

# 2022-2024 Conservation & Load Management Plan

*Connecticut's Energy Efficiency and Demand Management Plan*

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Submitted by: Eversource Energy, United Illuminating, Connecticut Natural Gas Corporation, and Southern Connecticut Gas

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# TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
GLOSSARY.....	10
EXECUTIVE SUMMARY .....	14
2022-2024 PRIORITIES: EQUITY, DECARBONIZATION & ENERGY AFFORDABILITY .....	15
2022-2024 SAVINGS AND BENEFITS .....	18
SECTION ONE: OVERVIEW.....	20
1.1 LEGISLATIVE HISTORY.....	20
1.2 AWARDS & RECOGNITION .....	22
1.2.1 American Council for an Energy Efficient Economy Scorecards.....	22
1.2.2 Ceres – Benchmarking Utility Clean Energy Report .....	23
1.2.3 2021 ENERGY STAR Partner of the Year Sustained Excellence .....	23
1.2.4 2021 Home Energy Score Partner Innovation Award .....	23
1.3 CONNECTICUT’S ENERGY POLICY .....	24
1.3.1 Comprehensive Energy Strategy .....	24
1.3.2 Equitable Energy Efficiency Proceeding .....	24
1.3.3 Governor’s Council on Climate Change.....	27
1.4 2022-2024 PLAN PRIORITIES & PLAN HIGHLIGHTS .....	27
1.4.1 Plan Priorities .....	29
1.5 ENERGY SAVINGS .....	34
1.5.1 Electric Savings.....	34
1.5.2 Natural Gas Savings.....	35
1.6 FUNDING SOURCES .....	36
1.7 PERFORMANCE MANAGEMENT INCENTIVES.....	37
SECTION TWO: RESIDENTIAL PORTFOLIO .....	39
2.1 OVERVIEW.....	39
2.1.1 Residential Programs.....	40
2.1.2 Key Priorities and Themes.....	41
2.1.3 Process for Continued Improvement .....	50
2.1.4 Codes, Standards, and Appliances .....	50
2.1.5 Financing .....	52
2.1.6 Performance Management Incentive Metrics .....	53
2.2 RETAIL PRODUCTS PROGRAM.....	54
2.2.1 Overview and Target Market .....	54
2.2.2 2022-2024 Themes & Priorities.....	55
2.2.3 Program Design .....	57
2.3 HVAC AND WATER HEATING EQUIPMENT PROGRAM.....	59

2.3.1	Overview & Target Market.....	59
2.3.2	2022-2024 Themes & Priorities.....	60
2.3.3	Program Design .....	63
2.4	RESIDENTIAL NEW CONSTRUCTION.....	68
2.4.1	Objectives & Target Market.....	68
2.4.2	Themes & Priorities.....	69
2.4.3	Program Design.....	71
2.5	HOME ENERGY SOLUTIONS AND HOME ENERGY SOLUTIONS-INCOME ELIGIBLE (Single-Family Homes).....	75
2.5.1	Themes & Priorities.....	75
2.5.2	Home Energy Solutions Program .....	79
2.5.4	Home Energy Solutions-Income Eligible Program.....	83
2.6	MULTIFAMILY INITIATIVE.....	88
2.6.1	Objectives & Target Market.....	88
2.6.2	Themes & Priorities.....	89
2.6.3	Program Overview.....	89
2.7	BEHAVIORAL STRATEGIES.....	90
2.7.1	Overview.....	90
2.7.2	Energy Insights (Eversource).....	91
2.7.3	Program Design (United Illuminating).....	92
2.8	DEMAND MANAGEMENT PROGRAMS.....	92
2.8.1	Objectives & Target Market.....	93
2.8.2	2022-2024 Priorities.....	93
2.8.3	Program Offerings.....	94
	SECTION THREE: COMMERCIAL & INDUSTRIAL PORTFOLIO.....	100
3.1	OVERVIEW.....	100
3.1.1	Plans for the 2022-2024 Term.....	100
3.1.2	Commercial & Industrial Programs.....	101
3.1.3	Key Priorities and Themes.....	103
3.1.4	Process for Continued Improvement.....	109
3.1.5	Codes and Standards.....	109
3.1.6	Incentives and Financing.....	110
3.1.7	Performance Management Incentive Metrics.....	112
3.2	NEW CONSTRUCTION, MAJOR RENOVATIONS & EQUIPMENT REPLACEMENT.....	113
3.2.1	Objectives & Target Market.....	114
3.2.2	2022-2024 Themes & Priorities.....	114
3.2.3	Midstream Rebates.....	115
3.3	RETROFIT SERVICES (ENERGY OPPORTUNITIES).....	115
3.3.1	Objectives & Target Market.....	116

3.3.2	Themes & Priorities .....	117
3.3.3	Medium-Sized Business Offering (Eversource only) .....	119
3.3.4	Benchmarking Initiative .....	119
3.3.5	Midstream Rebates .....	120
3.4	BUSINESS AND ENERGY SUSTAINABILITY .....	120
3.4.1	Objectives & Target Market .....	121
3.4.2	Themes & Priorities .....	124
3.5	SMALL BUSINESS PROGRAM .....	125
3.5.1	Small Business Energy Advantage Program .....	126
3.5.2	Themes & Priorities .....	127
3.5.3	Small Manufacturing Initiative .....	128
3.6	FOCUS ON MANUFACTURING .....	128
3.6.1	Outreach to Engage More Manufacturing Participation.....	129
3.6.2	Simplify Communications to Manufacturing Customers .....	129
3.6.3	Leveraging Information and Data.....	130
3.7	DEMAND MANAGEMENT PROGRAMS.....	130
3.7.1	Themes & Priorities.....	131
3.7.2	Target Market & Objectives .....	131
3.7.1	Eversource Active Demand Response Offerings .....	132
3.7.2	United Illuminating Programs .....	134
SECTION FOUR: EDUCATION, WORKFORCE, COMMUNITY OUTREACH & TECHNICAL ENGAGEMENT .....		136
4.1	OVERVIEW.....	136
4.1.1	Priorities .....	137
4.2	ENERGY EDUCATION .....	138
4.2.1	Objective .....	138
4.2.2	Target Market.....	139
4.2.3	K-12 Education .....	139
4.2.4	Student Contest.....	141
4.2.5	Green Sustainable Technical Education Program .....	141
4.3	WORKFORCE DEVELOPMENT .....	145
4.3.1	Connecticut’s Clean Energy Workforce.....	145
4.3.2	Objectives.....	146
4.3.3	Regional Training Coordination.....	147
4.3.4	Training the Workforce .....	148
4.4	COMMUNITY OUTREACH .....	152
4.4.1	Community Engagement.....	152
4.4.2	Educational Exhibits .....	153
4.5	TECHNICAL ENGAGEMENT .....	155

4.5.1 ENERGY STAR Portfolio Manager ..... 155

4.5.2 Customer Engagement Tools (Eversource only) ..... 155

4.5.3 Research, Design & Development ..... 155

4.6 Annual Budgets ..... 156

SECTION FIVE: BENEFIT-COST SCREENING ..... 157

5.1 OVERVIEW ..... 157

5.2 AVOIDED ENERGY SUPPLY COST STUDY ..... 158

5.3 BENEFIT-COST TESTS ..... 158

5.3.1 Benefit-Cost Tests ..... 158

SECTION SIX: EVALUATIONS ..... 162

6.1 PURPOSE OF EVALUATIONS ..... 162

6.2 2021 EVALUATION RECOMMENDATIONS ..... 163

APPENDIX A: 2022-2024 STATEWIDE MARKETING PLAN ..... 168

A.1. INTRODUCTION ..... 168

A.2 METRICS AND GOALS ..... 169

A.2.1 Three-Year Strategy (2022-2024) ..... 170

APPENDIX B: PUBLIC INPUT SESSION ..... 171

B.1 PUBLIC INPUT COMMENTS ..... 171

APPENDIX C: COMPLIANCE ORDERS ..... 219

APPENDIX C.1 2013-2015 C&LM PLAN – COMPLIANCE WITH ORDER 12 AND ORDER 33 ..... 219

APPENDIX C.2 2019-2021 CONSERVATION & LOAD MANAGEMENT PLAN WITH APPROVAL ..... 220

APPENDIX C.3 DEEP FINAL DECISION FOR 2020 PLAN UPDATE TO THE 2019-2021 PLAN ..... 222

APPENDIX C.4 DEEP DECISION FOR 2021 PLAN UPDATE TO THE 2019-2021 PLAN ..... 224

APPENDIX D: BENCHMARKING INITIATIVE PROPOSAL ..... 229

APPENDIX E: BUDGET & SAVINGS TABLES ..... 230

E.1 BUDGET SUMMARY OF THE 2022-2024 PLAN PROGRAM YEARS ..... 230

Table A – 2022 Combined Budgets (Electric and Natural Gas) ..... 230

Table A – 2023 Combined Budgets (Electric and Natural Gas) ..... 231

Table A – 2024 Combined Budgets (Electric and Natural Gas) ..... 232

Table B – Statewide Electric and Natural Gas Costs and Benefits (2022) ..... 233

Table B – Statewide Electric and Natural Gas Costs and Benefits (2023) ..... 235

Table B – Statewide Electric and Natural Gas Costs and Benefits (2024) ..... 237

E.2 STATEWIDE ELECTRIC TABLES ..... 239

Combined Electric Table A1 (2022) ..... 239

Combined Electric Table A1 (2023) ..... 240

Combined Electric Table A1 (2024) ..... 241

Combined Electric Table A2 (2021-2024) ..... 242

Combined Electric Table Pie Chart (2022) ..... 243

Combined Electric Table Pie Chart (2023) ..... 244

Combined Electric Table Pie Chart (2024) ..... 245

E.3 EVERSOURCE ELECTRIC TABLES..... 246

    Eversource Electric Table A1 (2020-2024) ..... 246

    Eversource Electric Table A Pie Chart (2022)..... 247

    Eversource Electric Table A Pie Chart (2023)..... 248

    Eversource Electric Table A Pie Chart (2024)..... 249

    Eversource Electric Table A Budget Allocation (2022-2024)..... 250

    Table B – Eversource CT Electric Costs and Benefits (2022) ..... 251

    Table B – Eversource CT Electric Costs and Benefits (2023) ..... 253

    Table B – Eversource CT Electric Costs and Benefits (2024) ..... 255

    Table C – Eversource CT Electric Energy Efficiency Budget Details (2022) ..... 257

    Eversource Electric Table C Pie Chart (2022) ..... 258

    Table C – Eversource CT Electric Energy Efficiency Budget Details (2023) ..... 259

    Eversource Electric Table C Pie Chart (2023) ..... 260

    Table C – Eversource CT Electric Energy Efficiency Budget Details (2024) ..... 261

    Eversource Electric Table C Pie Chart (2024) ..... 262

    Table D – Eversource CT Electric Historical and Projected (\$) (2013-2024) ..... 263

    Table D1 – Eversource CT Electric Historical and Projected (kW)(2013-2024) ..... 265

    Table D2 – Eversource CT Electric Historical and Projected Annual kWh (000s)(2013-2024) ..... 266

    Table D3– Eversource CT Electric Historical and Projected Lifetime kWh (000s)(2013-2024) ..... 267

    Table D4– Eversource CT Electric Historical and Projected Units (2013-2024) ..... 268

    Table D5 - Eversource CT Electric Historical and Cost per Projected kW..... 270

    Table D6 – Eversource CT Electric Historical and Cost per Projected Annual kWh (2013-2024)..... 272

    Table D7 – Eversource CT Electric Historical and Cost per Projected Lifetime kWh (2013-2024) ..... 274

    Table D8 – Eversource CT Electric Historical and Projected Annual MMBtu..... 275

    Table D9 – Eversource CT Electric Historical and Projected Lifetime MMBtu ..... 276

    Eversource Electric PMI (2022) ..... 277

    Eversource Electric PMI (2023) ..... 284

    Eversource Electric PMI (2024) ..... 291

E.4 UNITED ILLUMINATING ELECTRIC TABLES..... 298

    United Illuminating Electric Table A1 (2020-2024) ..... 298

    United Illuminating Electric Table A Pie Chart (2022)..... 299

    United Illuminating Electric Table A Pie Chart (2023)..... 300

    United Illuminating Electric Table A Pie Chart (2024)..... 301

    United Illuminating Electric Table A Budget Allocation (2022-2024)..... 302

    Table B – United Illuminating Electric Costs and Benefits (2022) ..... 303

    Table B – United Illuminating Electric Costs and Benefits (2023) ..... 305

Table B – United Illuminating Electric Costs and Benefits (2024) ..... 307

Table C – United Illuminating Electric Energy Efficiency Budget Details (2022) ..... 309

United Illuminating Electric Table C Pie Chart (2022) ..... 310

Table C – United Illuminating Electric Energy Efficiency Budget Details (2023) ..... 311

United Illuminating Electric Table C Pie Chart (2023) ..... 312

Table C – United Illuminating Electric Energy Efficiency Budget Details (2024) ..... 313

United Illuminating Electric Table C Pie Chart (2024) ..... 314

Table D – United Illuminating Electric Historical and Projected (\$) (2013-2024) ..... 315

Table D1 – United Illuminating Electric Historical and Projected (kW)(2013-2024) ..... 317

Table D2 – United Illuminating Electric Historical and Projected Annual kWh (000s)(2013-2024) ..... 318

Table D3– United Illuminating Electric Historical and Projected Lifetime kWh (000s)(2013-2024) ..... 319

Table D4– United Illuminating Electric Historical and Projected Units (2013-2024) ..... 320

Table D5 – United Illuminating Electric Historical and Cost per Projected kW ..... 322

Table D6 – United Illuminating Electric Historical and Cost per Projected Annual kWh (2013-2024) ..... 324

Table D7 – United Illuminating Electric Historical and Cost per Projected Lifetime kWh (2013-2024) ..... 326

Table D8 – United Illuminating Electric Historical and Projected Annual MMBtu ..... 327

Table D9 – United Illuminating Electric Historical and Projected Lifetime MMBtu ..... 328

United Illuminating Electric PMI (2022) ..... 329

United Illuminating Electric PMI (2023) ..... 336

United Illuminating Electric PMI (2024) ..... 343

E.5 COMBINED NATURAL GAS BUDGET AND SAVINGS TABLES ..... 350

Combined Natural Gas Table A1 (2022) ..... 350

Combined Natural Gas Table A1 (2023) ..... 351

Combined Natural Gas Table A1 (2024) ..... 352

Combined Natural Gas Table A2 (2021-2024) ..... 353

Combined Natural Gas Table A1 Pie Chart (2022) ..... 354

Combined Natural Gas Table A1 Pie Chart (2023) ..... 355

Combined Natural Gas Table A1 Pie Chart (2024) ..... 356

E.6 EVERSOURCE (NATURAL GAS) BUDGET AND SAVINGS TABLES ..... 357

Table A – Eversource Natural Gas (2020-2024) ..... 357

Table A Pie Chart - Eversource Natural Gas (2022) ..... 358

Table A Pie Chart - Eversource Natural Gas (2023) ..... 359

Table A Pie Chart - Eversource Natural Gas (2024) ..... 360

Eversource Natural Gas Table A Budget Allocation (2022-2024) ..... 361

Table B – Eversource Natural Gas (2022) ..... 362

Table B – Eversource Natural Gas (2023) ..... 364

Table B – Eversource Natural Gas (2024)..... 366

Table C – Eversource Natural Gas (2022)..... 368

Table C Pie Chart – Eversource Natural Gas (2022) ..... 369

Table C – Eversource Natural Gas (2023)..... 370

Table C Pie Chart – Eversource Natural Gas (2023) ..... 371

Table C – Eversource Natural Gas (2024)..... 372

Table C Pie Chart – Eversource Natural Gas (2024) ..... 373

Table D – Eversource Gas CT Historical and Projected Expenditures (2013-2024)..... 374

Table D1 – Eversource CT Natural Gas Annual Savings CCF (2013-2024) ..... 376

Table D2 – Eversource CT Natural Gas Lifetime Savings CCF (2013-2024) ..... 377

Table D3 – Eversource Natural Gas Cost per Annual Savings CCF (2013-2024)..... 379

Table D4 – Eversource Natural Gas Cost per Lifetime Savings CCF (2013-2024) ..... 380

Table D5 – Eversource Natural Gas Units (2013-2024)..... 381

Eversource Gas CT PMI (2022) ..... 382

Eversource Gas CT PMI (2023) ..... 385

Eversource Gas CT PMI (2024) ..... 388

E.7 CONNECTICUT NATURAL GAS BUDGET AND SAVINGS TABLES..... 391

Table A – Connecticut Natural Gas (2020-2024)..... 391

Table A Pie Chart - Connecticut Natural Gas (2022) ..... 392

Table A Pie Chart - Connecticut Natural Gas (2023) ..... 393

Table A Pie Chart - Connecticut Natural Gas (2024) ..... 394

Connecticut Natural Gas Table A Budget Allocation (2020-2024) ..... 395

Table B – Connecticut Natural Gas (2022) ..... 396

Table B – Connecticut Natural Gas (2023) ..... 398

Table B – Connecticut Natural Gas (2024) ..... 400

Table C – Connecticut Natural Gas (2022) ..... 402

Table C Pie Chart – Connecticut Natural Gas (2022)..... 403

Table C – Connecticut Natural Gas (2023) ..... 404

Table C Pie Chart – Connecticut Natural Gas (2023)..... 405

Table C – Connecticut Natural Gas (2024) ..... 406

Table C Pie Chart – Connecticut Natural Gas (2024)..... 407

Table D – Connecticut Natural Gas CT Historical and Projected Expenditures (2013-2024) ..... 408

Table D1 – Connecticut Natural Gas Annual Savings CCF (2013-2024) ..... 410

Table D2 – Connecticut Natural Gas Lifetime Savings CCF (2013-2024)..... 411

Table D3 – Connecticut Natural Gas Cost per Annual Savings CCF (2013-2024) ..... 413

Table D4 – Connecticut Natural Gas Cost per Lifetime Savings CCF (2013-2024) ..... 414



Table D5 – Connecticut Natural Gas Units (2013-2024) ..... 415

Connecticut Natural Gas PMI (2022) ..... 416

Connecticut Natural Gas PMI (2023) ..... 419

Connecticut Natural Gas PMI (2024) ..... 422

E.8 SOUTHERN CONNECTICUT GAS BUDGET AND SAVINGS TABLES ..... 425

Table A – Southern Connecticut Gas (2020-2024) ..... 425

Table A Pie Chart – Southern Connecticut Gas (2022)..... 426

Table A Pie Chart – Southern Connecticut Gas (2023)..... 427

Table A Pie Chart – Southern Connecticut Gas (2024)..... 428

Southern Connecticut Gas Table A Budget Allocation (2020-2024) ..... 429

Table B – Southern Connecticut Gas (2022) ..... 430

Table B – Southern Connecticut Gas (2023) ..... 432

Table B – Southern Connecticut Gas (2024) ..... 434

Table C – Southern Connecticut Gas (2022) ..... 436

Table C Pie Chart – Southern Connecticut Gas (2022)..... 437

Table C – Southern Connecticut Gas (2023) ..... 439

Table C Pie Chart – Southern Connecticut Gas (2023)..... 440

Table C – Southern Connecticut Gas (2024) ..... 441

Table C Pie Chart – Southern Connecticut Gas (2024)..... 442

Table D – Southern Connecticut Natural Gas Historical and Projected Expenditures (2013-2024) ..... 443

Table D1 – Southern Connecticut Gas Annual Savings CCF (2013-2024)..... 445

Table D2 – Southern Connecticut Gas Lifetime Savings CCF (2013-2024)..... 446

Table D3 – Southern Connecticut Gas Cost per Annual Savings CCF (2013-2024) ..... 448

Table D4 – Southern Connecticut Gas Cost per Lifetime Savings CCF (2013-2024)..... 449

Table D5 – Southern Connecticut Gas Units (2013-2024) ..... 450

Southern Connecticut Gas PMI (2022)..... 451

Southern Connecticut Gas PMI (2023)..... 454

Southern Connecticut Gas PMI (2024)..... 457

## GLOSSARY

2022-2024 Plan	Connecticut’s Conservation & Load Management Plan
ACEEE	American Council for an Energy Efficient Economy
AESC Study	Avoided Energy Supply Costs Study
AFUE	Annual Fuel Utilization Efficiency
AHRI	American Heating & Refrigeration Institute
ARPA	American Rescue Plan Act
BCR	Benefit-Cost Ratio
BOC	Building Operator Certification
C&I	Commercial & Industrial
C&I Portfolio	Includes all of the C&I segment energy efficiency and active demand response programs, initiatives, and pilots
C&LM	Conservation & Load Management, legislative and regulatory term for energy efficiency and demand management programs administered by the Companies
CAA	Community Action Agency
ccf	One hundred cubic feet of gas, used to measure a quantity of natural gas
CBOs	Community-based organizations
CGB	Connecticut Green Bank
CO <sub>2</sub>	Carbon dioxide, a greenhouse gas
Companies	The electric and natural gas utilities that develop and administer Connecticut’s energy efficiency and demand management programs
Consultants	The consultants employed by the Energy Efficiency Board
DEEP	Department of Energy and Environmental Protection
Demand	Average electric power requirement (i.e., load) during a time period. The production/ transmission demand is the highest average 30-minute kilowatt demand in the current month. Demand can refer to an individual customer’s load or to the load of an entire electric system
Demand Reduction	Reductions in demand due to the installation of an energy efficiency measure, usually expressed as kilowatts and measured at the customer’s meter
DHW equipment	Domestic hot water or water heating equipment
Distressed municipality	Defined by the Connecticut Department of Economic Development as a distressed municipality with high unemployment and poverty, aging housing stock and low or declining rates of growth in job creation, population, and per capita income

DOE	US Department of Energy
DOE Home Energy Score	The Home Energy Score is run by the US Department of Energy and gives home owners a score on a 1-10 scale regarding the building's energy use
DRIPE	Demand Reduction-Induced Price Effects, the reduction in prices in the wholesale energy and capacity markets due to the reduction in energy and demand resulting from conservation efforts
E3	Equitable Energy Efficiency proceeding being conducted by the Connecticut Department of Energy and Environmental Protection
E3b	Energy Efficiency Equity baseline, the University of Michigan's E3b metric estimates equitable utility investment in proportion to the low-income population in a service territory and as a percentage of the total residential energy efficiency investment
EEB	Connecticut Energy Efficiency Board
EF	Energy Factor
EISA	Energy Independence & Security Act of 2007
Electric Companies	Includes Eversource Energy and The United Illuminating Company
EMS	Energy Management System
EM&V	Evaluation, Measurement and Verification
Energy burden	Percentage of household income spent on energy bills
Energize Connecticut <sup>SM</sup>	Initiative dedicated to empowering Connecticut to make smart energy choices, now and in the future. An initiative of the Energy Efficiency, Fund, the Connecticut Green Bank, the State, and the Companies. The initiative has funding support from a charge on customer energy bills
ENERGY STAR <sup>®</sup>	Brand name for the voluntary energy efficiency labeling initiative sponsored by the US Environmental Agency and the US Department of Energy
Environmental justice	A distressed municipality (see term) in a defined US census block with 30 percent of the population living below 200 percent of the federal poverty level
EPA	US Environmental Protection Agency
EPSO	Equipment & Systems Performance Optimization
EUI	Energy use intensity
EV	Electric vehicles
FCM	Forward Capacity Market (run by ISO-NE)
GC3	Governor's Council on Climate Change
GHG	Greenhouse Gas
GSIL	General service incandescent bulb
GSL	General service lamp

HES	Home Energy Solutions, residential program for market-rate customers
HES-IE	Home Energy Solutions-Income Eligible, residential program for income-qualified customers
HVAC	Heating, ventilation, and air conditioning
Income eligible	Residential customers whose household income is at or below 60 percent of the State Median Income
ISO-NE	Independent System Operator-New England
kW	kilowatt
kWh	kilowatt-hour
LEAD tool	US Department of Energy's Low-Income Energy Affordability Data tool
LED	Light-emitting diode
Low income	Residential customers whose household income is at or below 60 percent of the State Median Income
Market rate	Residential customers whose household incomes are above 60 percent of the State Median Income
MBx	Monitoring-based commissioning
Measure cost	A product (or piece of equipment) or a process designed to provide energy or demand savings
Measure lifetimes	Average number of years (or hours) that a group of new high-efficiency equipment will continue to produce energy savings or the average number of years a service/practice will provide savings
Microbusiness	A subset of the small business market segment that use less than 25 kW average monthly demand (United Illuminating) or consume less than 100,000 kWh annually (Eversource) across all facilities
MLS	Multiple Listing Services
Moderate income	Residential customers whose household income is at or below 80 percent of the State Median Income and above 60 percent of the State Median Income
MMBtu	Millions of British thermal units
MUD	Multi-unit dwellings
Natural Gas Companies	Includes Eversource Energy, Connecticut Natural Gas Corporation, and Southern Connecticut Gas Company
NEI	Non-Energy Impacts
NOx	Nitrous oxides
Peak demand	Highest 30-minute kilowatt demand in the current month or the preceding eleven (11) months
PHI	Passive House Institute

PHIUS	Passive House Institute US
PMI	Performance management incentive, compensation for each of the Company's successful execution of the energy efficiency and demand management programs during the program year as determined by the Connecticut Department of Energy and Environmental Protection
Portfolio Manager®	Software run by the US Environmental Protection Agency
PSD	Program Savings Document manual, details the calculations and values used to determine energy savings from the installation of energy-efficient measures
PURA	Public Utilities Regulatory Authority
QA/QC	Quality Assurance/Quality Control
QPL	Qualified Products List
R&D	Research & Development
RCx	Retrocommissioning
Residential Portfolio	Includes all of the residential segment energy efficiency and active demand response programs, initiatives, and pilots
RFP	Request for Proposal
RGGI	Regional Greenhouse Gas Initiative
SEM	Strategic Energy Management
Small business	A business that uses less than one million kilowatt-hours annually (Eversource) or with an average 12-month peak demand between 10 and 200 kilowatts (United Illuminating)
SOx	Sulfur oxides
TRC	Total Resource Cost
UEF	Uniform Energy Factor
WAP	Weatherization Assistance Partnership (federal weatherization program)
ZNE	Zero Net Energy
ZNER	Zero Net Energy Ready

## EXECUTIVE SUMMARY

Pursuant to Connecticut General Statutes § 16-245(m) and § 16-32(f), Connecticut's Electric and Natural Gas Companies<sup>1</sup> are proud to deliver this 2022-2024 Conservation & Load Management Plan (2022-2024 Plan or Plan), to the Connecticut Department of Energy and Environmental Protection (DEEP). Connecticut's energy efficiency and demand management programs are vital resources to the state. For over 20 years, the Companies have delivered nationally-recognized programs that drive energy savings, reduce greenhouse gas emissions and other air pollutants,<sup>2</sup> employ a highly-skilled and local clean energy workforce, and strengthen the state's economy by increasing energy affordability and improving business productivity. For the 2022-2024 term, the Companies will continue to focus on implementing all "cost-effective energy conservation programs, demand management, and market transformation initiatives."<sup>3</sup>

The 2022-2024 Plan is a \$707 million investment in making Connecticut more energy efficient. The Companies worked collaboratively with the Connecticut Energy Efficiency Board (EEB), EEB consultants, regulators, and stakeholders to develop the Plan's priorities, budgets, and program designs. In addition, the EEB held three Public Input Sessions where contractors, municipal officials, regulators, and other stakeholders were able to voice their suggestions for modifications, improvements, new initiatives, and qualifying energy-efficient technologies.<sup>4</sup> The 2022-2024 term will cover years 23-25 of electric conservation programs since the passage of Connecticut's electric restructuring act (Public Act 98-28)<sup>5</sup> and will cover years 16-18 of natural gas conservation programs since energy independence legislation (Public Act 05-01) was passed.<sup>6</sup>

The Plan is designed as a living document to be modified throughout the 2022-2024 term via annual Plan updates and budget reconciliation filings. The Companies will file two Plan updates for the 2023 and 2024 program years, which will report on program modifications and changes to budgets and goals made in response to new legislation, code standards, state policies, and emerging technologies.<sup>7</sup> The EEB and the Companies also solicit feedback through annual Public Input Sessions, as well as invite public comments at the EEB's monthly committee and board meetings, which also inform the development of the Plan and Plan updates. Additionally, the Companies will file three budget reconciliation filings during the 2022-2024 term.<sup>8</sup> These annual filings allow the Companies to report year-end actual budgets spent, goals achieved for the prior program year, make adjustments accordingly to the current program year's budgets and savings, as well as

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<sup>1</sup> The Electric Companies are The Connecticut Light and Power Company doing business as Eversource Energy (Eversource) and The United Illuminating Company (United Illuminating). The Natural Gas Companies are the Connecticut Natural Gas Corporation (CNG), Southern Connecticut Gas (SCG), and Yankee Gas Services Company doing business as Eversource. For the purposes of this Plan, any reference to both the Electric and Natural Gas Companies will be (collectively, the Companies). If a program or policy is designed for only the Electric Companies or Natural Gas Companies and/or individual utilities, the Plan text will explicitly state the responsible party.

<sup>2</sup> The primary greenhouse gas reduced by energy efficiency and demand management programs is carbon dioxide (CO<sub>2</sub>). Other air pollutants that are reduced due to the implementation of the Plan's programs include nitrous oxides (NO<sub>x</sub>) and sulfur oxides (SO<sub>x</sub>). The Companies track the resulting reductions of CO<sub>2</sub>, NO<sub>x</sub>, and SO<sub>x</sub> and these numbers are reported in various figures and tables throughout this Plan document.

<sup>3</sup> Public Act 18-50, § 9(d)(1), *An Act Concerning Connecticut's Energy Future*, May 24, 2018, online at: <https://www.cga.ct.gov/2018/act/pa/2018PA-00050-R00SB-00009-PA.htm>.

<sup>4</sup> For more information and stakeholder comments (verbal and written) from the various Public Input Sessions, please see Appendix B.

<sup>5</sup> Public Act 98-28, *An Act Concerning Electric Restructuring*, Apr. 28, 1998, online at: <https://www.cga.ct.gov/ps98/Act/pa/1998PA-00028-R00HB-05005-PA.htm>.

<sup>6</sup> Public Act 05-01, *An Act Concerning Electricity and Energy Efficiency*, Jul. 21, 2005, online at: <https://www.cga.ct.gov/2005/ACT/PA/2005PA-00001-R00HB-07501SS1-PA.htm>.

<sup>7</sup> The 2023 Plan Update will be filed on November 1, 2022 and the 2024 Plan Update will be filed on November 1, 2023.

<sup>8</sup> Budget reconciliation filings will be submitted on March 1, 2022 (for 2021 program year), March 1, 2023 (for 2022 program year), and March 1, 2024 (for 2023 program year).

make program modifications in response to DEEP compliance orders, legislation, and feedback from contractors, regulators, and other stakeholders.

## **2022-2024 PRIORITIES: EQUITY, DECARBONIZATION & ENERGY AFFORDABILITY**

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The first priority of the Companies for the 2022-2024 term is equity. In designing the Plan, the Companies were committed to prioritizing the equitable distribution of the benefits of energy efficiency programs across the state, communities, neighborhoods, market segments, and customer types (e.g., residential, income-eligible, small business) they serve. As such, program design, outreach efforts, and budgets have all been crafted with equity in mind for the upcoming three-year term and this consideration is reflected across the Residential, Commercial and Industrial (C&I), and Education, Workforce & Community Outreach Portfolio sections of this Plan.

For the Residential Portfolio, the Companies have developed outreach, policies, and programmatic support to specifically address the disparities in high-priority communities and communities of color<sup>9</sup> that limit participation in energy-saving programs and the equitable distribution of energy efficiency benefits, specifically in distressed municipalities<sup>10</sup> and environmental justice communities.<sup>11</sup> To drive participation in these communities, the Companies will continue to deliver training for Community Action Agencies, local clean energy task forces, and community-based organizations regarding energy efficiency programs. The Companies also plan to continue coordinating their energy efficiency outreach efforts to low-income, senior, and financial hardship customers with other utility-led customer workshops regarding matching payment plans and energy assistance. This comprehensive approach to outreach ensures that customers learn about the multiple utility and community programs that can help relieve their energy burdens, as well as deliver the energy efficiency message in a succinct, engaging manner. The Companies will continue these efforts in the 2022-2024 term.

For the C&I Portfolio, the Companies continuously research and analyze how commercial, industrial, and municipal customers participate across market segments to ensure equitable use of energy efficiency funding. This ongoing analysis has helped the Companies to understand which customers, segments, and quartiles have not historically participated in the C&I Portfolio's programs and have received lower contributions in the past five years. Within each market segment, the Companies look at distressed municipalities, non-participants, and customers in arrears (for utility bills) to determine if there is a correlation between customers on these lists. To determine targeted quartiles and sectors, the Companies analyze participation rates, fund contributions received, energy usage, annual kilowatt-hour (kWh) savings, and lifetime kWh savings. In Section Three of this Plan, the Companies further elaborate on the targeted groups and strategies to increase equity in the C&I Portfolio for the 2022-2024 term.

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<sup>9</sup> Communities of color include Black, Indigenous, Latinx, Americans, immigrants, and other People of Color (BIPOC).

<sup>10</sup> For the purposes of this 2022-2024 Plan, the Companies will define "distressed municipalities" in alignment with the Connecticut Department of Economic and Community Development's (DECD) definition of "distressed municipalities." According to Conn. Gen. Stat. § 32-9p: "a distressed municipality should be based on high unemployment and poverty, aging housing stock and low or declining rates of growth in job creation, population, and per capita income." The DECD's list of the 25 distressed municipalities is updated annually by DECD and is available online at: [https://portal.ct.gov/DECD/Content/About\\_DECD/Research-and-Publications/02\\_Review\\_Publications/Distressed-Municipalities](https://portal.ct.gov/DECD/Content/About_DECD/Research-and-Publications/02_Review_Publications/Distressed-Municipalities).

<sup>11</sup> Per Conn. Gen. Stat § 22a-20a, "environmental justice communities" are defined as a municipality on the DECD list of distressed municipalities (See footnote 10 above) or in a defined US census block. These defined census blocks are in municipalities that are not "distressed;" however, they have census block groups with 30 percent of their population living below 200 percent of the federal poverty level. A current list of these census blocks is available at: <https://portal.ct.gov/DEEP/Environmental-Justice/Environmental-Justice-Communities>.

Decarbonization is the second key priority for the 2022-2024 term. Energy efficiency and demand management programs are key tools in protecting the environment and reducing greenhouse gas and other air pollutant emissions. On September 3, 2019, Governor Ned Lamont issued Executive Order No. 3, re-establishing and expanding the membership and responsibilities of the Governor’s Council on Climate Change (GC3).<sup>12</sup> The GC3 is responsible for addressing mitigation strategies to reduce greenhouse gases,<sup>13</sup> as well as considering adaptation and resilience in the face of climate change impacts. In January 2021, the GC3 issued a Phase 1 report on near-term actions that could be taken on climate change and building a more resilient Connecticut.<sup>14</sup>

Over the 2022-2024 term, Connecticut’s energy efficiency and demand management programs will result in the reduction of 5.1 million tons of CO<sub>2</sub> emissions

In support of the GC3’s recommendations, the Companies will help to reduce greenhouse gas emissions from the building sector by promoting high-efficiency, low-carbon space and water heating technologies, such as heat pumps and heat pump water heaters. Additional decarbonization strategies will include a renewed push for Zero Net Energy, Zero Net Energy Ready, and Passive House certifications for commercial and residential new construction projects. The Companies will introduce packaged energy efficiency program offerings for all-electric new construction projects through the C&I Portfolio. During the 2022-2024 term, the Companies will also begin to align the C&I new construction program, Energy Conscious Blueprint, with the US Department of Energy’s (DOE) Grid Interactive Efficient Building initiative. The Companies will offer increased technical and financial support for low-carbon technologies in retrofit applications and will significantly increase their efforts to weatherize residential and C&I buildings.

The GC3 report also encouraged the transition of the Plan’s programs from their historical reliance on high-efficiency lighting measures to demand reduction strategies.<sup>15</sup> During the 2019-2021 term, the Companies recognized that the lighting marketplace had transformed and had already shifted their support (via programs and incentives) toward active demand response strategies, weatherization measures, and low-carbon technologies. For the 2022-2024 term, the Companies will promote the co-delivery of energy efficiency and demand management programs that support decarbonization and carbon neutrality, including smart thermostats, electric vehicle chargers, and battery storage. Additionally, the Companies will continue to support and implement some of the Public Utility Regulatory Authority’s (PURA) grid modernization efforts.<sup>16</sup> The Companies will encourage customers to adopt “smart” technologies that enable two-way communications between customers’ equipment/systems with electric grid operators. These active demand response strategies will significantly reduce peak demand and greenhouse gas emissions, helping to mitigate the impact that the state’s building sector has on the environment and climate change. The Companies plan to encourage customers

<sup>12</sup> Conn. Exec. Order No. 3, effective Sep. 3, 2019, available online at: <https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-3.pdf?la=en&hash=F836ED64F1BB49A5424AB4C7493A3AE3>. The GC3 was originally established in 2015 by Governor Dan Malloy. The GC3’s membership includes 23 members from businesses, local governments, nonprofits, quasi-public agencies, and state agencies.

<sup>13</sup> GC3, *Building a Low Carbon Future for Connecticut: Achieving a 45% GHG Reduction by 2030*, rel. Dec. 18, 2018, available online at: <https://portal.ct.gov/-/media/DEEP/climatechange/publications/BuildingaLowCarbonFutureforCTGC3Recommendationspdf.pdf>.

<sup>14</sup> GC3, *Taking Action on Climate Change and Building a More Resilient Connecticut for All: Phase I-Near Term Actions*, issued Jan. 2021, available online at: [https://portal.ct.gov/-/media/DEEP/climatechange/GC3/GC3\\_Phase1\\_Report\\_Jan2021.pdf](https://portal.ct.gov/-/media/DEEP/climatechange/GC3/GC3_Phase1_Report_Jan2021.pdf).

<sup>15</sup> See GC3, at 35.

<sup>16</sup> PURA, Interim Decision, Docket No. 17-12-03: PURA Investigation into Distribution System Planning of the Electric Distribution Companies, Oct. 2, 2019, available online at: <https://portal.ct.gov/-/media/PURA/electric/171203RE01-Interim-Decision.pdf?la=en&hash=B8A5D3C2B6D42D1EBA2B971581DCDF5B>. This interim decision outlined PURA’s framework for investigating methods for realizing an equitable modern electric grid in Connecticut, including energy storage (<https://portal.ct.gov/PURA/Electric/Grid-Modernization/Grid-Modernization>).



to engage with a more modern grid, improving energy affordability and resilience. The Companies' efforts will also help transition the state to a zero-carbon economy and in meeting the *Global Warming Solutions Act's* 2050 target goals.<sup>17</sup>

The Companies' third priority is energy affordability—promoting economic development through lower energy bills, enhanced energy security, and increased reliability. According to the US Energy Information Administration, nearly one-third of US households reported facing a challenge in paying energy bills or sustaining adequate heating and cooling in their home.<sup>18</sup> A household's energy burden is defined as the percentage of household income spent on energy bills and very often, lower income households are disproportionately affected. Households with high energy burdens must deal with difficult trade-offs between paying for utility bills or basic necessities like food and medicine.<sup>19</sup>

For the 2022-2024 term, the Companies will focus on making energy bills more affordable for residential, commercial, industrial, and municipal customers. To achieve this priority in the Residential Portfolio, the Companies plan to reach more households and promote comprehensive energy efficiency measures that will decrease customers' energy bills and make homes safer and healthier to live in. These measures will include insulation, efficient appliances and electronics, heating, ventilation, and air conditioning (HVAC) system and water heating equipment upgrades, and behavioral changes.

Every \$1 invested in energy efficiency, results in \$2.61 back into Connecticut's economy, resulting in an economic lifetime benefit of \$1.8 billion

Energy affordability also affects businesses, particularly micro-businesses and small business enterprises.<sup>20</sup> Many businesses were already struggling pre-pandemic to pay bills, sustain staffing levels, and maintain profitability. With the shuttering of many businesses for months due to COVID-19, even more commercial, industrial, and municipal customers now need to be aware of, and realize, the benefits of energy efficiency in keeping production lines moving and the lights on. Installing energy efficiency measures would benefit C&I customers through increased energy savings, improved facility operations and productivity, and increased health and safety standards (e.g., increased visibility with better lighting, health and safety with high-efficiency HVAC equipment to circulate air). Less dollars directed toward utility bills means more money in an employee's paycheck, more books in the classroom, increased emergency services for communities, and larger investments in new production lines, products, and services.

For the 2022-2024 term, the Companies will look to offer increased financing options; thus, allowing business customers to make long-term energy efficiency investments providing immediate benefits with little to no upfront capital costs. The Companies will also continue to offer increased financial assistance to customers to incentivize them to make long-term, strategic energy efficiency choices. For microbusinesses and small businesses, such as local restaurants, small retail operations, and doctors' or lawyers' offices, the Companies will continue to offer virtual, energy pre-assessments through

<sup>17</sup> In 2008, the Connecticut General Assembly passed Public Act 08-98—*An Act Concerning Global Warming Solutions* (Global Warming Solutions Act). The Global Warming Solutions Act requires the state to reduce greenhouse gas emissions to 10 percent below 1990 levels by January 2020 and to reduce greenhouse gas emissions to 80 percent below 2001 levels by January 2050.

<sup>18</sup> US Energy Information Administration, *2015 Residential Energy Consumption Survey*, 2015, online at: <https://www.eia.gov/consumption/residential/reports/2015/energybills/>. The US Energy Information Administration is currently collecting data for the 2020 Residential Energy Consumption Survey and will release information regarding housing characteristics by December 2021 and energy consumption and expenditures data in January 2023.

<sup>19</sup> Fisher, Sheehan, and Colton's *Home Energy Affordability Gap Analysis* defines households with a 6 percent energy burden or higher as households with high energy burden, online at: [www.homeenergyaffordabilitygap.com/](http://www.homeenergyaffordabilitygap.com/).

<sup>20</sup> Microbusinesses are defined as a subset of the small business market segment that use less than 25 kW average monthly demand (United Illuminating) or consume less than 100,000 kWh annually (Eversource) across all facilities. A small business is defined as an enterprise that uses less than 1 million kilowatt-hours annually.

the Small Business Energy Advantage program to support the installation of electric and natural gas cost-saving measures. The remote assessments identify areas where upgrades could improve energy use. Once an assessment is complete, a self-install kit of energy efficiency measures is mailed to the customer at no charge allowing the business to optimize their energy consumption and realize energy savings right away.

## 2022-2024 SAVINGS AND BENEFITS

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Connecticut's energy efficiency and demand management initiatives provide significant economic and environmental benefits to the state's residents and businesses. For the 2022-2024 term, the Companies' energy-saving initiatives will generate \$2.44 into Connecticut's economy for every \$1 invested in energy efficiency and provide an economic lifetime benefit of \$1.7 billion dollars. These benefits are reinvested into the state's economy and workforce through direct and indirect services, training initiatives, and professional development. In Connecticut, energy efficiency programs create and support 33,573 jobs annually.<sup>21</sup>

In addition to these quantifiable benefits, installed measures improve the efficiency of industrial and commercial operations and several initiatives provide and support customized strategic energy management and sustainable business practices to C&I and municipal customers. During the 2022-2024 term, the energy efficiency and demand reduction measures installed will result in emission reductions of 4.8 million tons of carbon dioxide and further reductions in other air pollutants, such as sulfur oxides and nitrous oxides.

During the 2022-2024 term, energy efficiency and demand management initiatives will result in:

- Electric lifetime savings of 4.7 billion kilowatt-hours (kWh).
- Natural gas lifetime savings of 23.9 billion cubic feet of natural gas (Bcf).
- Oil lifetime savings of 80.3 million gallons.
- Propane lifetime savings of 14.1 million gallons.
- A combined annual peak demand reduction (active and passive) of 395 Megawatts (MW).

Figure 1-A below details the annual operating budgets and lifetime and annual energy savings forecasted for the 2022, 2023, and 2024 program years.

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<sup>21</sup> Source: *2021 CT Clean Industry Energy Report* reflects 2020 data and reports clean energy employment declined by 5.9 percent (2,600 workers) in 12 months. The COVID-19 pandemic resulted in wiping out nearly four years of clean energy employment growth across the state, sending the clean energy labor market back to 2016 employment levels. Clean energy investment supports 41,500 Connecticut jobs in HVAC, electrical, manufacturing, insulation, weatherization and solar industries. This includes 33,573 energy efficiency jobs. Despite these losses, the clean energy industry is projected to see an 8.2 percent employment growth in 2021 with the addition of around 3,400 clean energy jobs.

**Figure 1-A: 2022-2024 Savings & Benefits\***

Year	Budgets (\$000)			Annual Savings							Lifetime Savings	
	Electric	Natural Gas	Total	Electric (GWh) *	Peak (MW) **	Natural Gas (MMcf)	Oil (gallons)	Propane (gallons)	Annual Savings (MMBtus) ***	CO <sub>2</sub> Emissions (tons)	Lifetime Benefit (\$000)	Lifetime Savings (MMBtus) ***
<b>2022</b>	\$189,054	\$54,231	\$243,284	190	125	528	1,448,963	277,276	1.4	133,066	\$606,205	18.3
<b>2023</b>	\$178,385	\$55,179	\$233,564	169	131	541	1,378,837	258,524	1.3	125,098	\$569,530	17.5
<b>2024</b>	\$173,895	\$55,836	\$229,731	156	139	540	1,363,332	254,614	1.3	119,724	\$549,406	17.1
<b>Total</b>	<b>\$541,333</b>	<b>\$165,246</b>	<b>\$706,579</b>	<b>516</b>	<b>395</b>	<b>1,609</b>	<b>4,191,132</b>	<b>790,415</b>	<b>4.1</b>	<b>377,889</b>	<b>\$1,725,141</b>	<b>53.0</b>

\*Abbreviation for Gigawatt hours.

\*\*Savings include demand response programs.

\*\*\*In millions of MMBtu (one million British Thermal Units). Figures listed are site MMBtus and address only the energy saved at the meter level.

## SECTION ONE: OVERVIEW

### 1.1 LEGISLATIVE HISTORY

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In 1998, the Connecticut General Assembly passed *Public Act 98-28—An Act Concerning Electric Restructuring*, establishing the Conservation & Load Management Fund (known today as the Connecticut Energy Efficiency Fund or Fund). Initially, the energy efficiency programs were funded solely by electric residential and C&I customers across the state. This legislation established the Fund’s three primary objectives: (1) to advance energy efficiency, (2) mitigate the negative environmental impacts of energy generation, and (3) to promote economic development through lower energy bills, enhanced energy security, and increased energy reliability. Public Act 98-28 also established the Energy Conservation Management Board (known today as the Energy Efficiency Board or EEB) to advise Connecticut’s Electric Companies in developing their annual energy efficiency and load management plans.

In 2005, *Public Act 05-01—An Act Concerning Electricity and Energy Efficiency* was passed by the Connecticut General Assembly. This legislation created a funding mechanism for the Natural Gas Companies to develop and implement cost-effective energy efficiency programs that reduce natural gas consumption for residential and C&I customers. This legislation also created energy efficiency programs and a funding mechanism for the Connecticut Municipal Electrical Energy Cooperative (CMEEC). Additionally, under Public Act 05-01, the EEB’s role was expanded to provide guidance for the Electric and Natural Gas Companies in their development of energy efficiency programs for electric and natural gas customers.

Public Act 05-01 codified the establishment of a joint financing committee (Joint Working Committee) between the EEB and the Renewable Energy Investment Fund (known today as the CT Green Bank).<sup>22</sup> Pursuant to Public Act 05-01, this Joint Working Committee must coordinate the programs and initiatives overseen by both the EEB and CT Green Bank to reduce the long-term negative environmental impacts, costs, and security risks associated with energy consumption across the state.<sup>23</sup> As a result of this legislation and joint collaboration with the CT Green Bank, the Residential and C&I Portfolios’ financial offerings have significantly expanded over the years and are detailed in Section 2 and Section 3 of this Plan, respectively. In 2007, new legislation called for the Companies to pursue “all cost-effective energy efficiency” with the passage of *Public Act 07-242—An Act Concerning Electricity and Energy Efficiency*. This legislation envisioned energy efficiency as the focal point for statewide energy policy.

In 2011, the Connecticut General Assembly passed *Public Act 11-80—An Act Concerning the Establishment of the Department of Energy & Environmental Protection and Planning for Connecticut’s Energy Future*. This landmark legislation created DEEP and laid the groundwork for pursuing all cost-effective energy efficiency. Public Act 11-80 also requires

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<sup>22</sup> Public Act 05-01, Section 5(d)(2).

<sup>23</sup> Public Act 05-01, Section 16-245.

DEEP to prepare a Comprehensive Energy Strategy for Connecticut every three years and DEEP issued its first in 2012.<sup>24</sup> Additionally, Public Act 11-80 established ambitious energy-saving targets for the state, including reducing state buildings' energy consumption by 10 percent by 2013 and an additional 10 percent by 2018, and weatherizing 80 percent of Connecticut's residential homes by 2030.

In 2013, the Connecticut General Assembly passed *Public Act 13-228—An Act Concerning Implementation of Connecticut's Comprehensive Strategy and Various Revisions to the Energy Statutes*. Public Act 13-228 modified how the Electric and Natural Gas Companies developed their energy efficiency plans with a requirement for them to develop a three-year combined plan, beginning on November 1, 2015. The 2022-2024 Plan is the third three-year plan developed after the passage of Public Act 13-228. This legislation also provided the framework for increased energy efficiency spending in Connecticut and made organizational changes to the EEB. Public Act 13-228 also requires the EEB and CT Green Bank to finance residential energy efficiency and renewable energy measures using private capital with on-bill loan payments via electric and natural gas utility bills.

During the 2016-2018 term, significant funding for the Fund's programs was diverted to the state's General Fund through the Connecticut General Assembly's passage of June Special Session's *Public Act 17-2—An Act Concerning the State Budget for the Biennium Ending June 30, 2019, Making Appropriations Therefor, Authorizing and Adjusting Bonds of the State and Implementing Provisions of the Budget* (SS Public Act 17-2) on October 31, 2017. The Act diverted \$63.5 million per year for Fiscal Years 2018 and 2019 from the Fund and diverted an additional \$10 million per year in proceeds from the Regional Greenhouse Gas Initiative's carbon trade auctions. These diversions negatively impacted the Companies' Portfolios for 2017, 2018, and 2019.

In 2018, the Connecticut General Assembly passed *Public Act 18-50—An Act Concerning Connecticut's Energy Future*.<sup>25</sup> Due to the passage of this legislation, the Companies saw partial restoration of funds for Program Year 2019, and full funding for Program Years 2020 and 2021. To deter future funding diversion efforts, Public Act 18-50 changed the structure of how energy efficiency programs are funded in the state. In addition, the Act introduced a new energy savings goal policy for the state, requiring the Companies to reduce energy consumption by 1.6 million MMBtus (one million British Thermal Units), or the "equivalent megawatts

## Energy Legislation

*Public Act 98-28—An Act Concerning Electric Restructuring*

*Public Act 05-01—An Act Concerning Electricity and Energy Efficiency*

*Public Act 07-242—An Act Concerning Electricity and Energy Efficiency*

*Public Act 11-80—An Act Concerning the Establishment of the Department of Energy & Environmental Protection and Planning for Connecticut's Energy Future*

*Public Act 13-228—An Act Concerning Implementation of Connecticut's Comprehensive Strategy and Various Revisions to the Energy Statutes*

*Public Act 17-2—An Act Concerning the State Budget for the Biennium Ending June 30, 2019, Making Appropriations Therefor, Authorizing and Adjusting Bonds of the State and Implementing Provisions of the Budget*

*Public Act 18-50—An Act Concerning Connecticut's Energy Future*

*Public Act 18-82: An Act Concerning Climate Change Planning and Resiliency*

<sup>24</sup> Public Act 11-80, Section 51.

<sup>25</sup> Public Act 18-50, *An Act Concerning Connecticut's Energy Future*, approved May 24, 2018. Also known as Senate Bill 9 ("SB 9"). Available online at: <https://www.cga.ct.gov/2018/act/pa/pdf/2018PA-00050-R00SB-00009-PA.pdf>.

of electricity,” annually each year for calendar years commencing on and after January 1, 2020, through calendar year 2025.”<sup>26</sup>

Public Act 18-50 also revised the state’s general statutes, specifically § 16-245, adding “demand management” to the Companies’ legislatively directed program mandates<sup>27</sup> and requiring the Companies to be fuel blind in the delivery of energy efficiency programs.<sup>28</sup> For the 2020 and 2021 program years, the Companies exceeded the mandated goal energy reductions by delivering 1.9 million MMBtus and 1.8 million MMBtus,<sup>29</sup> respectively.

The figure below details the planned MMBtu savings for the 2022-2024 term.

**Figure 1-B: 2022-2024 Plan Million MMBtu Savings (Annual)\***

Year	2022	2023	2024
Legislative Goal	1.6	1.6	1.6
Companies’ Goal	1.4	1.3	1.3

\*In millions of MMBtus.

Another piece of legislation passed in 2018 was *Public Act 18-82: An Act Concerning Climate Change Planning and Resiliency*. This legislation requires the state to achieve greenhouse gas emissions reductions of at least 45 percent below 2001 greenhouse gas emissions levels by January 1, 2030. Additionally, the legislation called for the integration of greenhouse gas reductions into the Integrated Resources Plan, the Comprehensive Energy Strategy, and various other state planning documents and efforts.

## 1.2 AWARDS & RECOGNITION

### 1.2.1 American Council for an Energy Efficient Economy Scorecards

For more than a decade, the American Council for an Energy Efficient Economy (ACEEE) has ranked Connecticut as one of the top ten energy-efficient states in its annual State Energy Efficiency Scorecard. In 2020, Connecticut was ranked seventh in the nation by the 2020 ACEEE State Scorecard. In December 2021, the ACEEE will release its 2021 ACEEE State Scorecard.

Beginning in 2019, the ACEEE also began to assess and rank the fifty-two largest US electric utilities across a range of energy efficiency metrics critical to utility-sector efficiency. The three critical categories include: (1) energy efficiency

<sup>26</sup> Public Act 18-50, § 8. “It shall be the policy of the state to reduce energy consumption by not less than 1.6 million MMBtu, or the equivalent megawatts of electricity, as defined in subdivision (4) of section 22a-197 of the general statutes, annually each year for calendar years commencing on and after January 1, 2020, up to and including calendar year 2025.” While PA 18-50 refers to “megawatts,” the technical conversion of MMBtus (as an energy unit) to an electric unit would be megawatt hours. The Plan uses “megawatt-hours” throughout the remainder of the Plan when citing PA 18-50.

<sup>27</sup> Public Act 18-50, § 9(d)(1). “...of implementing “cost effective energy conservation programs, demand management and market transformation initiatives.” This directive started in 2020.

<sup>28</sup> Public Act 18-50, § 9(d)(1). “...provided a customer of an electric distribution company may not be denied such services based on the fuel such customer uses to heat such customer’s home.”

<sup>29</sup> Figures listed are site MMBtus and address only the energy saved at the meter level.

program performance, (2) program offerings and portfolio comprehensiveness, and (3) enabling mechanisms for efficiency. For the 2020 ACEEE Utility Energy Efficiency Scorecard, Eversource MA and National Grid MA both tied for the top spot, with Eversource CT ranked the number ten utility.

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### 1.2.2 Ceres – Benchmarking Utility Clean Energy Report

In 2020, Eversource was ranked the number one energy efficiency provider in the nation, according to a Ceres' report: *Benchmarking Utility Clean Energy*.<sup>30</sup> This report looked at the percentage of 2014 retail electric sales of large electric utilities in relationship to clean energy deployment. Ceres is a non-profit organization transforming the economy to build a just and sustainable future for people and the planet. Eversource was ranked number one in two of the report's categories: (1) incremental annual energy efficiency and (2) life cycle energy efficiency.

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### 1.2.3 2021 ENERGY STAR Partner of the Year Sustained Excellence

In April 2021, Energize Connecticut, in partnership with the Companies, was recognized with the Environmental Protection Agency's (EPA) 2021 ENERGY STAR® Partner of the Year Sustained Excellence recognition for their 2020 program year accomplishments.<sup>31</sup> The award was given for the Companies' response to the COVID-19 public health crisis by increasing incentives for ENERGY STAR HVAC units, offering special online discounts for ENERGY STAR certified lighting, air cleaners, and smart thermostats, and increasing the impact of the Retail Products program by 14 percent. Combined, these initiatives resulted in the sale of about 70,000 ENERGY STAR certified products.<sup>32</sup>

In addition, the EPA noted the Companies' implementation of a virtual pre-assessment for households, along with the introduction of a self-install energy efficiency kit to adapt to the pandemic. The Companies also offered incentives of up to 100 percent for insulation installation and provided health and safety training for contractors to ensure the safety of contractors and households to facilitate resumption of in-home and on-site services. The EPA also recognized the Companies for their empowerment of municipal partners to use the EPA's ENERGY STAR Portfolio Manager™ software, and other tools and resources to track building energy usage, evaluate buildings for energy-efficient improvements, monitor results of technology upgrades, and capture energy savings to meet required energy reduction goals.

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### 1.2.4 2021 Home Energy Score Partner Innovation Award

In May 2021, the DOE Home Energy Score Team presented Energize Connecticut<sup>SM</sup> with the 2020 Home Energy Score Partner Innovation Award.<sup>33</sup> This award recognized the Connecticut Home Energy Score Working Group for championing an innovative, inclusive process for improving program impact and making efforts to reach rental households with the Home Energy Score. For more information regarding the Home Energy Score, please see Section 2.5 of this Plan.

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<sup>30</sup> Ceres, *2020 Benchmarking Utility Clean Energy*, Jul. 8, 2020, available online at: <https://www.ceres.org/resources/reports/benchmarking-air-emissions-100-largest-electric-power-producers-united-states-4>. Please note that United Illuminating is too small to be eligible for this recognition.

<sup>31</sup> EPA, *2020 ENERGY STAR Awards: Profiles in Leadership at 14*, available online at: [https://www.energystar.gov/sites/default/files/asset/document/2020%20Profiles%20in%20Leadership\\_Final%20%28Updated%205.5.2020%209.pdf](https://www.energystar.gov/sites/default/files/asset/document/2020%20Profiles%20in%20Leadership_Final%20%28Updated%205.5.2020%209.pdf).

<sup>32</sup> This figure does not include retail sales of lighting products.

<sup>33</sup> Energize Connecticut is an initiative dedicated to empowering Connecticut to make smart energy choices, now and in the future. It is an initiative of the Energy Efficiency Fund, the CT Green Bank, the State, and the Companies. The initiative has funding support from a charge on customer energy bills.

## 1.3 CONNECTICUT'S ENERGY POLICY

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Energy efficiency is the most cost-effective, reliable resource for Connecticut's energy policymakers and stakeholders. To develop the 2022-2024 Plan's programs, incentives, and budgets, the Companies worked extensively with DEEP, the EEB, and EEB consultants to meet relevant statutory requirements and policy guidance. The primary goal for the 2022-2024 Plan is to "implement cost-effective energy conservation programs, demand management and market transformation initiatives."<sup>34</sup> The Companies have also aligned the 2022-2024 Plan with the 2018 Comprehensive Energy Strategy. Once the 2021 Comprehensive Energy Strategy is finalized, the Companies will work with DEEP and the EEB to align the 2022-2024 Plan with any of the strategy's policies, guidelines, or goals that will help Connecticut achieve the state's overall energy policy goal of cheaper, cleaner and more reliable energy.

### 1.3.1 Comprehensive Energy Strategy

In late 2021, DEEP is expected to issue the 2021 Comprehensive Energy Strategy to advance Connecticut's goal of creating a cheaper, cleaner, more reliable energy future for all the state's residents and businesses.<sup>35</sup> Pursuant to Public Act 11-80, DEEP must issue a new and updated plan for Connecticut every three years, which considers all the energy needs of the state, including, but not limited to electricity, cooling, heating, and transportation. The 2018 Comprehensive Energy Strategy noted that while Connecticut has reduced greenhouse gas emissions four percent below 1990 levels and 14 percent below 2001 levels, that greater reductions are needed for the state to meet the *Global Warming Solutions Act's* 2050 target goals.<sup>36</sup> Once the 2021 Comprehensive Energy Strategy has been released, in consultation with DEEP and the EEB, the Companies will begin to integrate recommended strategies into the goals and objectives for the Residential, C&I, and Education, Workforce & Community Outreach Portfolios. These modifications will be reflected in the 2023 and 2024 Plan updates or budget reconciliation filings.

### 1.3.2 Equitable Energy Efficiency Proceeding

Pursuant to Conn. Gen Stat § 16-245ee, DEEP must determine that an equitable amount of the funds administered under the Conservation & Load Management Plan "are to be deployed among small and large customers with a maximum average monthly peak demand of 100 kilowatts in census tracts in which the median income is not more than 60 percent of the state median income."<sup>37</sup> DEEP must file an annual report of its findings regarding the distribution of funds to such communities, in accordance with the provisions of Conn. Gen. Stat. § 11-4a, to the Energy and Technology Committee of the Connecticut General Assembly.<sup>38</sup>

In September 2020, DEEP launched an Equitable Energy Efficiency (E3) proceeding to define equity in the context of energy efficiency and demand management programs, develop specific metrics to determine which customer

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<sup>34</sup> Public Act 18-50, § 9(d)(1). The "demand management" component of this directive starts in 2020. Existing law already requires C&LM plans "to implement cost-effective energy conservation programs and market transformation initiatives". Conn. Gen. Stat. §16-245m(d)(1). Prior C&LM plans have also included load management programs.

<sup>35</sup> Department of Energy and Environmental Protection, *2018 Comprehensive Energy Strategy*, available online at: [http://www.ct.gov/deep/lib/deep/energy/ces/2018\\_comprehensive\\_energy\\_strategy.pdf](http://www.ct.gov/deep/lib/deep/energy/ces/2018_comprehensive_energy_strategy.pdf).

<sup>36</sup> In 2008, the Connecticut General Assembly passed *Public Act 08-98—An Act Concerning Global Warming Solutions* ("Global Warming Solutions Act"). The Global Warming Solutions Act requires the state to reduce greenhouse emissions to 10 percent below 1990 levels by January 2020 and to reduce greenhouse emissions to 80 percent below 2001 levels by January 2050.

<sup>37</sup> Conn. Gen Stat § 16-245ee (2012).

<sup>38</sup> Conn. Gen Stat § 11-4a (2012).



demographics are underserved by the current programs, and to expand the inclusion and participation of individuals in the Portfolios, particularly within distressed and environmental justice communities.<sup>39</sup> DEEP is also exploring whether groups within these communities, such as minorities, customers with limited incomes, veterans, and renters are also being served by the energy efficiency and demand management programs. Additionally, through the E3 proceeding, DEEP will determine whether Connecticut's business customers are equitably benefitting from Energy Efficiency Fund programs, including, but not limited to minority-owned businesses, microbusinesses, and large C&I customers with energy-intensive processes.

In parallel to this proceeding, DEEP issued compliance orders for the 2020 Plan Update to the 2019-2021 Plan that included the creation of new equity performance management metrics for the 2021 Residential and C&I Portfolios. DEEP invited and reviewed public comments for a number of stakeholders and participants on the scope and process of the E3 proceeding. On May 5, 2021, DEEP issued its *Proposed Phase I Actions and Recommendations* and invited the public to submit comments by June 18, 2021.<sup>40</sup> On July 21, 2021, DEEP issued its *Final Phase I Actions and Recommendations*.<sup>41</sup>

The final determination contains eight high-level goals and nineteen associated action items which are detailed in Figure 1-C. Throughout the 2022-2024 term, the Companies will work to analyze and design new pathways and process improvements to align program delivery with the E3 proceeding's goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan Update Filings and the three budget reconciliation filings (2022, 2023, and 2024).<sup>42</sup> For the 2022-2024 Plan, the Companies have developed equity metrics in accordance with DEEP's *Final Phase I Actions and Recommendations* in the E3 proceeding (see Section 2.1.6 (Residential Portfolio) and Section 3.1.7 (C&I Portfolio)).

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<sup>39</sup> DEEP, *Notice of Equitable Energy Efficiency Proceeding and Request for Written Comments*, Sep. 3, 2020, available online at: [http://www.dpuc.state.ct.us/DEEP/energy.nsf/c6c6d525f7cdd1168525797d0047c5bf/12c36ce3c4b5a80c852585d80046845f/\\$FILE/Notice%20of%20Equitable%20EE%20Proceeding%20&%20Req%20for%20Written%20Comments.pdf](http://www.dpuc.state.ct.us/DEEP/energy.nsf/c6c6d525f7cdd1168525797d0047c5bf/12c36ce3c4b5a80c852585d80046845f/$FILE/Notice%20of%20Equitable%20EE%20Proceeding%20&%20Req%20for%20Written%20Comments.pdf). See Footnotes 10 and 11 for definitions of distressed and environmental justice communities.

<sup>40</sup> DEEP, *E3 Proceeding-Phase 1 Actions and Recommendations*, May 5, 2021, available online at: <https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/E3-Proposed-Phase-I-Actions-and-Recommendations.pdf>.

<sup>41</sup> DEEP, *Final Determination for Equitable Energy Efficiency Proceeding—Phase I Goals and Actions*, Jul. 21, 2021, available online at: <https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/Final-E3-Phase-I-Determination.pdf>.

<sup>42</sup> The 2023 Plan Update will be filed on November 1, 2022 and the 2024 Plan Update will be filed on November 1, 2023. Budget reconciliation filings will be submitted on March 1, 2022 (for Program Year 2021), March 1, 2023 (for Program Year 2022), and March 1, 2024 (for Program Year 2023).

**Figure 1-C: Final Phase I Actions and Recommendations for Equity in Energy Efficiency Proceeding****Goal 1: Embed greater equity in decision-making.**

- Action 1.1: Direct the EEB to develop a plan to hire a Diversity, Equity, and Inclusion Consultant.
- Action 1.2: Solicit nominations for EEB membership in a more inclusive manner to increase board diversity.

**Goal 2: Enhance tracking of equity indicators in Conservation & Load Management programs.**

- Action 2.1: Work with the Companies to assess-retrospectively and moving forward—the extent to which priority communities are served by energy efficiency programs.
- Action 2.2: Update the Equitable Distribution Report to make equity data accessible to a wider audience.

**Goal 3: Develop metrics and goals to assess equitable distribution of energy efficiency funding.**

- Action 3.1: Broaden the current Matching Payment Program metric to potentially cover medical and financial hardship customers and include more ambitious targets to scale up the percentage of participating customers on an annual basis.
- Action 3.2: Establish a baseline E3b (Energy Efficiency Equity baseline) level for the Companies based on the most recent available data and establish a goal of at least maintaining the E3b figures for each utility on an annual basis.

**Goal 4: Improve program participation and impacts among moderate-income customers.**

- Action 4.1: Develop a definition of “moderate income.”
- Action 4.2: Assess moderate income program participation using the agreed-upon definition.

**Goal 5: Streamline the eligibility process for low-income programs.**

- Action 5.1: Streamline eligibility based on participation in other state assistance programs through multi-lateral data-sharing across multiple state agencies and departments.
- Action 5.2: Hold a series of workshops with adequate representation to explore additional avenues for streamlining eligibility.
- Action 5.3 Develop a tool with strong consumer protections that allows vendors to easily identify eligible customers by address to support verification and marketing activities.

**Goal 6: Improve outreach to high-need or high-impact populations.**

- Action 6.1: Develop community engagement practices that align with the goals outlined in the E3 proceeding and 2022-2024 Plan.
- Action 6.2: Develop a checklist to ensure that opportunities for public participation are widely shared and accessible to a diverse group of stakeholders.

**Goal 7: Address health and safety barriers to low-income weatherization access.**

- Action 7.1: Work with the CT Green Bank to explore improved financing options for Home Energy Solutions (HES) and HES-Income Eligible customers to access interest-free financing for health and safety barrier mitigation.
- Action 7.2: Develop a DEEP-administered program with supplemental funding sources to remediate health and safety barriers to weatherization in low-income homes.

**Goal 8: Address and remove barriers to participation among renters.**

- Action 8.1: Engage with both landlords and renters on the benefits of HES and HES-Income Eligible and teach them how to participate in the programs.
- Action 8.2: Leverage existing incentives with federal funding and other funding sources as approved to provide a comprehensive approach to energy retrofits for affordable housing.
- Action 8.3: Maintain the landlord agreement in the interim as the Companies gather data on rental units that do not proceed due to lack of landlord approval.

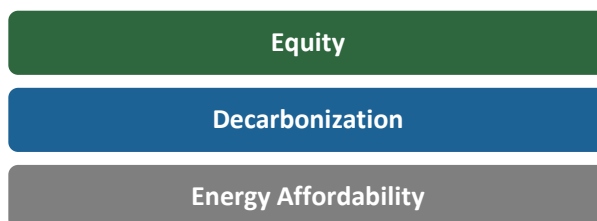
### 1.3.3 Governor’s Council on Climate Change

As referenced in Section 1.1, Governor Lamont’s *Executive Order No. 3* re-established and expanded the membership and responsibilities of the GC3. The GC3 is responsible for two primary objectives and related tasks: (1) monitor and report on the state’s implementation of the greenhouse gas emissions reductions strategies set forth in the GC3’s December 2018 report: *Building a Low Carbon Future for Connecticut: Achieving a 45% GHG Reduction by 2030* and (2) develop and implement adaptation strategies to assess and prepare for the impacts of climate change in areas such as infrastructure, agriculture, natural resources, and public health.

In January 2021, the GC3 issued a Phase 1 report on near-term actions to reduce greenhouse gas emissions, combat climate change, and help build a more resilient Connecticut. The Companies have integrated several of the GC3’s recommendations into the 2022-2024 Plan, including the continued promotion of high-efficiency low-carbon space and water heating technologies in retrofit and new construction projects and an enhanced weatherization effort for both the residential and C&I building sectors. Additionally, the Companies continue to develop innovative active demand response programs to support decarbonization and carbon neutrality, including battery chargers, smart thermostats, and electric vehicles and chargers. For the 2022-2024 term, CNG and SCG will expand their active demand response strategies for residential and C&I natural gas customers, decreasing the amount of energy used in natural gas-heated homes, as well as reducing greenhouse gas emissions.

## 1.4 2022-2024 PLAN PRIORITIES & PLAN HIGHLIGHTS

Connecticut is perennially ranked as one of the nation’s top ten states in energy efficiency policies and programs. The 2022-2024 Plan is a \$707 million investment in making Connecticut more energy efficient. The Companies worked collaboratively with the EEB, EEB consultants, regulators, and stakeholders to develop the Plan’s priorities detailed below:



For the 2022-2024 term, program design, workforce outreach efforts, and budgets have all been crafted with the Plan’s three priorities in mind—equity, decarbonization, and energy affordability. In Figure 1-D below, the Companies have highlighted how they will address these three priorities across the Residential, C&I, and Education, Workforce & Community Outreach Portfolios.

Figure 1-D: 2022-2024 Plan Priorities

Residential	Commercial & Industrial	Education, Workforce Development & Community Outreach
<b>Equity</b>		
<ul style="list-style-type: none"> <li>• Use DEEP’s new Energy Efficiency Equity baseline (E3b) to identify areas of the state with lower participation and to inform new targeted customer outreach efforts.</li> <li>• Market to customers in non-English languages to increase audience engagement.</li> <li>• Continue to analyze customer data and target customers in distressed and environmental justice communities and market sectors with untapped potential.</li> <li>• Include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to analyze customer data and target customers in distressed and environmental justice communities and market sectors with untapped potential.</li> <li>• Market to customers in non-English languages to increase audience engagement.</li> <li>• Include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.</li> </ul>	<ul style="list-style-type: none"> <li>• Use Community Partnership Initiative to reach more customers, particularly those in distressed, environmental justice, and non-English speaking communities.</li> <li>• Introduce <i>Energize CT Energy in Action</i> mobile exhibit. Sixty percent of school tours and community events will be in distressed and environmental justice communities.</li> <li>• Implement proactive Workforce Development Strategy focusing on growing energy efficiency workforce and recruiting/training workers from underrepresented communities, such as ethnic and racial minorities, and women.</li> </ul>
<b>Decarbonization</b>		
<ul style="list-style-type: none"> <li>• Promote sustainable building practices (e.g., Zero Energy Homes, Leadership in Energy and Environmental Design, and Passive House) to residential new construction market actors.</li> <li>• Expand active demand response offerings to support electrification and carbon neutrality, including smart thermostats, air conditioning load control, battery storage, and electric vehicle chargers.</li> <li>• Educate consumers on benefits of heat pump technologies and develop contractor locator tool to direct customers to qualified installers.</li> <li>• Maintain Qualified Products List to standardize efficiency and qualifying criteria for heat pump technologies in Northeast.</li> </ul>	<ul style="list-style-type: none"> <li>• Promote sustainable building practices (e.g., Net Zero Energy Buildings).</li> <li>• Enhance weatherization efforts and use building energy management control strategies for commercial and municipal buildings.</li> <li>• Educate contractors and customers on heat pump technologies and benefits.</li> <li>• Expand active demand response offerings to support electrification and carbon neutrality, including smart thermostats, air conditioner load control, lighting/dimming, battery storage, industrial load shifting, and electric vehicle chargers.</li> <li>• Claim savings for delivered fuels (oil and propane) resulting from the installation of energy efficiency measures.</li> </ul>	<ul style="list-style-type: none"> <li>• Leverage manufacturer and distributor education and training efforts to promote heat pump technologies.</li> <li>• Encourage contractors to attend and complete manufacturer-led heat pump trainings to broaden base of qualified installers.</li> <li>• Coach contractors to recognize prime opportunities such as replacement of end-of-life air conditioning systems with heat pumps.</li> </ul>
<b>Energy Affordability</b>		
<ul style="list-style-type: none"> <li>• Leverage funding from Low-Income Heating Energy Assistance Program and American Rescue Plan Act to address weatherization health and safety barriers.</li> <li>• Increase stocking and sale of efficient equipment at retailers.</li> <li>• Enhance and deploy web-based resources to educate customers about low-carbon technologies, high-efficiency products, and active demand response offerings.</li> <li>• Continue to offer virtual pre-assessments through HES/HES-IE programs to support installation of energy efficiency and active demand response measures.</li> <li>• Introduce Census Tract Tool to streamline customer outreach efforts for contractors.</li> </ul>	<ul style="list-style-type: none"> <li>• Enhance promotion of existing loan products, such as CPACE, and increase financing options to C&amp;I customers to support long-term energy efficiency investments that provide immediate energy savings with little to no upfront capital costs.</li> <li>• Offer virtual, pre-assessments through the Small Business Energy Advantage program to support the installation of energy efficiency and active demand reduction measures.</li> <li>• Conduct additional education and outreach to businesses to increase participation in energy efficiency and active demand response across market segments and customer classes.</li> <li>• Increase small business participation in weatherization measures, including targeting businesses in converted residences.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide energy efficiency seminars to schools and community-based organizations to help educate students and educators on various careers/paths in energy efficiency available to students.</li> <li>• Target residential and small business customers in distressed, environmental justice, and non-English speaking communities through community and direct outreach campaigns.</li> </ul>

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### 1.4.1 Plan Priorities

#### Priority 1: Equity

The Companies' first priority for the 2022-2024 term is to ensure that the Portfolios are equitable in their distribution of programs and benefits across the state, including communities and neighborhoods, market segments, and customer types. The Companies' equity efforts have been shaped and will continue to be developed by DEEP's Equity in Energy Efficiency (E3) proceeding (see Section 1.3.2 for more details).

In July 2021, DEEP released its final recommendations for Phase I, including the need to develop an Energy Efficiency Equity baseline (E3b). In the upcoming term, the Companies will use the E3b to identify areas of the state with lower participation in energy efficiency and active demand response programs and to help them determine where customer outreach should be targeted. Throughout the 2022-2024 term, the Companies will work with DEEP, the EEB, and EEB consultants to modify processes and programs to promote greater equity across the Portfolios to align the Plan with the E3's eight goals and nineteen associated action items.<sup>43</sup> The E3 proceeding has already resulted in the creation of new equity performance management incentives for both the Residential and C&I Portfolios for the 2021 program year. For the 2022-2024 term, new equity metrics were developed (see Section 2.1.6 (Residential Portfolio) and Section 3.1.7 (C&I Portfolio)).

The 2022-2024 Plan's program designs, outreach efforts, and budgets have all been crafted with equity in mind for the upcoming three-year term and this consideration is reflected across the Portfolios. During the 2022-2024 term, the Companies will deploy a Census Tract Tool to allow communities, municipalities, and vendors to select areas throughout the state that are deemed to be "income eligible" through US census tract data. There will be two available paths for communities and vendors to choose for marketing and outreach activities, as well as an additional path to verify customers are eligible for the Home Energy Solutions-Income Eligible program. Additionally, for the Residential Portfolio's contractor communities, the Companies will include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.

The C&I Portfolio is focused on making sure that customers across all market segments and business sizes receive equitable use of energy efficiency funding. For the 2022-2024 term, the Companies will research and target underserved customers and market sectors and introduce new incentives that make energy efficiency more affordable. In addition, the Companies will streamline the verification process for enhanced incentives. This makes it faster and simpler for C&I customers to participate in energy efficiency and active demand response programs, particularly small businesses and microbusinesses who do not have the time or resources to devote to energy-saving projects.

Similar to the Residential Portfolio, the C&I Portfolio will also be aligned to the E3 proceeding, focusing on reaching all C&I market segments. The C&I equity metric established for the 2021 Plan Update ensures that the Companies equitably distribute program support, funds, and the benefits derived from energy efficiency programs to all market sectors. In the 2022-2024 term, the Companies will focus on reaching customers and market segments with historically lower participation rates to ensure equity across the entire C&I customer base. The equity metric requires the Companies to increase annual electric savings in one C&I market segment within each quartile that has been identified as "under-

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<sup>43</sup> DEEP, Final Determination for Equitable Energy Efficiency Proceeding—Phase I Goals and Actions, Jul. 21, 2021, available online at: <https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/Final-E3-Phase-I-Determination.pdf>.

participating and lower contributions received.” For reference, the C&I market segments are separated into quartiles by energy consumption and contributions to the Energy Efficiency Fund. Quartile 1 is for the largest energy consumers while Quartile 4 represents micro and small businesses. Throughout the upcoming term, the Companies will reevaluate the targeted segments and goals for each quartile on an annual basis. This analysis will be based on participation, energy savings, and contributions received (i.e., how much the business or municipality “pays” into the Fund). The new performance metrics are detailed in Section 3.1.7.

In the 2022-2024 term, the Companies will continue to analyze customer data and segmentation studies to identify customer barriers to participation and target customers and market sectors with historically low participation rates in the programs. To increase participation in these markets, the Companies are also committed to marketing the C&I Portfolio’s programs in non-English languages. For the Companies’ contractor communities, the Companies will include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.

As part of the Education, Workforce & Community Outreach Portfolio, the Companies have recently launched the Community Partnership Initiative, a community-based approach that focuses on partnerships between the Companies, organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Portfolios. These community organizations have the trust of the community and the insight to make inroads in awareness and to drive increased participation in energy efficiency and demand management. These outreach efforts will ensure that the benefits of energy efficiency and demand management reach all residential customers across the state, particularly for customers who reside in distressed, environmental justice, and communities with a large non-English speaking population.

In 2022, the Companies will introduce the Energize CT Energy in Action mobile exhibit. This traveling museum’s objective is to inspire energy efficiency advocacy through entertainment-based and interactive learning programming and exhibits. The exhibit will travel to schools and community-based events throughout the state with a metric of 60 percent of its tours scheduled in distressed and environmental justice communities. Additionally, in the upcoming term, the Companies will implement a proactive Workforce Development Strategy focusing on growing the energy efficiency workforce and recruiting and training workers from underrepresented communities, such as ethnic and racial minorities, and women.

## Priority 2: Decarbonization

The second objective of the Energy Efficiency Fund is to protect the environment through the reduction of carbon dioxide and other greenhouse gas emissions, such as nitrous oxides, sulfur oxides, and chlorofluorocarbons (from refrigerants). This mission to protect the environment and reduce greenhouse gas emissions is now even more important with the recent release of the *Sixth Assessment Report of the Intergovernmental Panel on Climate Change* (IPCC) reporting that since 2011, concentrations of carbon dioxide have increased to 410 parts per million (ppm), 1866 parts per billion (ppb) for methane, and 332 ppb for nitrous oxide in 2019.<sup>44</sup> This increase in greenhouse gas emissions has led to climate

<sup>44</sup> IPCC, 2021: Climate Change 2021: The Physical Science Basis. Contribution of Working Group I to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change [Masson-Demote, V., P. Zhai, A. Pirani, S. L. Connors, C. Péan, S. Berger, N. Caud, Y. Chen, L. Goldfarb, M. I. Gomis, M. Huang, K. Leitzell, E. Lonnoy, J. B. R. Matthews, T. K. Maycock, T. Waterfield, O. Yelekçi, R. Yu and B. Zhou (eds.)]. Cambridge University Press. In Press.

change, “which is already affecting every inhabited region across the globe with human influence contributing to many observed changes in weather and climate extremes.”<sup>45</sup>

The Companies understand the inextricable link between energy consumption and climate change, and they have designed the Plan’s programs and offerings to significantly reduce greenhouse gas emissions from the building sector. For the 2022-2024 term, the Companies will invest in decarbonization strategies that benefit residential and C&I customers, improve air indoor quality, and protect the environment through reduced greenhouse gas emissions. This focus will align the 2022-2024 Plan with the decarbonization and electrification strategies and statewide goals for greenhouse gas emissions reductions set forth by the *Global Warming Solutions Act* and Public Act 18-82. Additionally, the Companies have also integrated several of the GC3’s recent Phase I report on near-term actions to reduce greenhouse gas emissions, combat climate change, and help build a more resilient Connecticut.

For both the C&I and Residential Portfolios, the Companies will prioritize transitioning customers to heat pump technologies, such as air source heat pumps, ground source heat pumps, central and ductless, air-to-water heat pumps, and packaged and split heat pump water heater systems. For the 2022-2024 term, the Companies have invested in a workforce development training and certification platform that will engage and prepare contractors to install high-efficiency, low-carbon heating and cooling, and hot water heat pump technologies in homes and businesses.

For the upcoming term, the Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for heat pumps. This regional QPL was established to standardize the efficiency and qualifying criteria for air source heat pump technologies installed in Connecticut and in multiple states throughout the Northeast region. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. Additionally, the Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the [EnergizeCT.com](https://www.energizect.com) website, create an “All Things Heat Pumps” webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

For the Residential Portfolio, the Companies plan to promote more weatherization of residential buildings to prepare them for low-carbon heating and cooling practices and technologies. Weatherization and the installation of energy-efficient measures reduces the amount of energy needed to power and heat the residential building sector. Reductions in energy consumption mean less reliance on fossil-fueled power plants, lower greenhouse gas emissions, and less operation and maintenance on buildings systems and equipment. Air sealing, duct sealing, and the installation of high-efficiency insulation and windows will reduce heating and cooling losses, while ENERGY STAR certified appliances and electronics will reduce electric consumption. During the 2022-2024 term, the Companies will also introduce induction cook tops and advanced power strips to the ENERGY STAR Retail Products Platform.

Residential new construction projects will also benefit from the Companies’ electrification and decarbonization strategies in the upcoming term. The Companies will heavily promote sustainable building certifications, such as Zero Energy Homes, Leadership in Energy and Environmental Design, and Passive House to residential new construction market actors. The Companies will also offer a new Major Renovations & Additions pathway through the Residential New

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<sup>45</sup> See IPCC Report.

Construction program. This new pathway, a pilot initiative during the 2019-2021 term, will ensure that homeowners who are renovating areas of their home greater than five hundred square feet will have access to guides that help them understand their options to improve the aesthetics, function, and energy performance of their home simultaneously. This will increase participation in the programs and lead to greater energy savings and reduced greenhouse gas emissions.

The Companies will expand their contractor outreach through increased education and training regarding low-carbon heating and cooling practices and technologies. These efforts will ensure the electrification of the residential new construction sector for the long term. In addition, the Companies will scale up their active demand response offerings for electric vehicles by establishing make-ready requirements for residential new construction projects, in addition to continuing to incentivize new construction projects that comply with solar photovoltaic make-ready protocols.

Within the C&I Portfolio, the Companies will promote decarbonization through an expanded weatherization effort of existing buildings (through the Energy Opportunities and Small Business Energy Advantage programs). Weatherization reduces the amount of energy needed to heat and cool a business or municipal building, which in turn makes the installation of low-carbon heating and cooling technologies more feasible in a C&I project. Energy efficiency projects not only provide energy savings but also result in reductions in carbon dioxide and other greenhouse gas emissions. In addition to enhanced weatherization efforts for existing commercial and municipal buildings, the Companies will also offer building energy management control strategies.

Additionally, for the 2022-2024 term, the Companies will increase their support for high-efficiency practices and equipment in C&I new construction projects. The C&I new construction and equipment program, Energy Conscious Blueprint, offers several pathways to make it easier to integrate energy efficiency offerings with clean, renewable technologies. The program's Zero Net Energy pathway provides support and incentives to new construction market actors to ensure that a building's energy use is viewed holistically from the first sketch to the final construction phases. Additionally, the Companies will support active demand response strategies that reduce both energy consumption and demand at peak demand times, including smart thermostats, water heating equipment, air conditioner cycling, light dimming, battery storage, and industrial curtailments.

Within the Workforce Development Initiative, the Companies will leverage manufacturer and distributor education and training efforts to promote heat pump technologies and encourage contractors to attend and complete manufacturer-led heat pump trainings. These efforts will broaden the base of qualified installers and build capacity. In addition to these workforce decarbonization strategies, the Companies will encourage and coach contractors to recognize prime opportunities to replace end-of-life air conditioning systems with heat pumps.

### Priority 3: Energy Affordability

For the 2022-2024 term, the Companies will continue to prioritize energy affordability for residential and C&I customers across the state, including low-income customers who have high energy burdens. The Companies will conduct education and outreach through the Community Partnership Initiative which is designed to reach communities, customers, and market segments where participation in energy efficiency has been limited due to multiple factors. The combination of energy savings goals by segment and continuing to reach customers who contribute to install energy-efficient measures will both increase customers' energy savings and reduce their energy burdens, therefore making energy more affordable to all customer segments.



For the Residential Portfolio, the Companies will remain focused on reducing the energy burdens of low and moderate-income households who pay a disproportionate share of their household income toward energy bills. “Low income” is defined as a household whose income is at or below 60 percent State Median Income and “moderate income” is defined in Connecticut as a household whose income is at or below 80 percent of the State Median Income and above 60 percent. In accordance with DEEP’s final decision in the E3 Proceeding Phase I Report, the Companies will monitor moderate-income participation and be prepared to adjust program outreach and incentives accordingly.<sup>46</sup> This focus will be through the lens of equity to ensure that households from different communities, races, ethnicities, cultures, and socioeconomic backgrounds receive equal access to the benefits of energy efficiency. In addition, the Companies will broaden their data collection and inclusion of multifamily properties to ensure that all buildings are receiving valuable home performance services that increase energy affordability and comfort. Outreach to multifamily building owners and tenants will also increase in the upcoming term to ensure more affordable and market-rate units are retrofitted to reduce energy consumption and customer costs.

To address energy affordability in the Residential Portfolio in the upcoming term, the Companies will assist DEEP and other industry partners with weatherization health and safety barrier remediation efforts in Connecticut. These barriers limit the Companies’ abilities to weatherize as many homes as possible and to deliver energy savings equitably across the state. A stable funding mechanism would allow remediation contractors to address barriers, especially in low-income homes and allow the Companies to weatherize more homes, helping to meet the state’s goal of 80 percent of homes weatherized by 2030. For the 2022-2024 term, the Companies plan to leverage funding from the Low-Income Heating Energy Assistance Program (LIHEAP) and the American Rescue Plan Act (ARPA) to address weatherization health and safety barriers. The Companies will participate in DEEP’s Request for Proposal process for a Weatherization Barrier Remediation program, and plan to integrate and coordinate with the agency’s selected vendor.

In the upcoming term, the Companies plan to address energy affordability in the Residential Portfolio through the introduction of the Census Tract Tool to streamline customer outreach for contractors, increasing the stocking and sale of efficient equipment at retailers, continuing to offer virtual pre-assessments through the HES and HES-Income Eligible programs to support the installation of energy efficiency and active demand response measures, and enhancing and deploying web-based resources to educate customers about high-efficiency products, active demand response offerings, and low-carbon HVAC and water heating equipment.

The Companies understand that businesses also struggle with paying their energy bills and that energy efficiency programs can help reduce their costs. Prior to the pandemic, many businesses were already struggling to sustain staffing levels and incomes, stock the shelves, and to maintain profitability. These businesses closed temporarily or permanently due to the pandemic and now the benefits of energy efficiency technologies and programs are needed more than ever to ensure that C&I customers keep their lights on and manufacturing production lines in operation. Energy efficiency and demand management programs reduce energy costs and make business operations more affordable, as well as the ancillary benefits of improved facility operations and productivity, and increased health and safety standards.

For the 2022-2024 term, the Companies will enhance their promotion of existing loan products, such as CPACE, and increase financing options to C&I customers to support long-term energy efficiency investments that provide immediate energy savings with little to no upfront capital costs. The Companies will also continue to offer virtual, pre-assessments through the Small Business Energy Advantage program to support the installation of energy efficiency and active demand

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<sup>46</sup> The Companies will define “moderate-income customers” in accordance with DEEP’s findings and recommendations in the E3 proceeding. See Goal 4: Improve program participation and impacts among moderate-income customers.

response measures, as well as increase small business participation in weatherization measures, including targeting businesses in converted residences. The Companies will conduct additional education and outreach to businesses to increase program participation across market segments and customer classes.

For the Education, Workforce & Community Outreach Portfolio, the Companies will target residential and small business customers in distressed, environmental justice, and non-English speaking communities through community and direct outreach campaigns. Additionally in the 2022-2024 term, the Companies plan to provide energy efficiency seminars to schools and community-based organizations to help educate students and educators on various careers and career paths in energy efficiency available to students.

## 1.5 ENERGY SAVINGS

Over the last two decades, the Companies have a proven record of developing and administering energy efficiency and demand reduction programs that generate sustainable annual and lifetime energy savings for Connecticut's residents and businesses. Since 2000, the Electric Companies' energy-saving programs have achieved 6,624 annual gigawatt-hour (GWh) and 77,281 lifetime GWh savings. The Natural Gas Companies have helped customers realize 6,292 MMcf annually and 93,585 lifetime MMcf savings.

### 1.5.1 Electric Savings

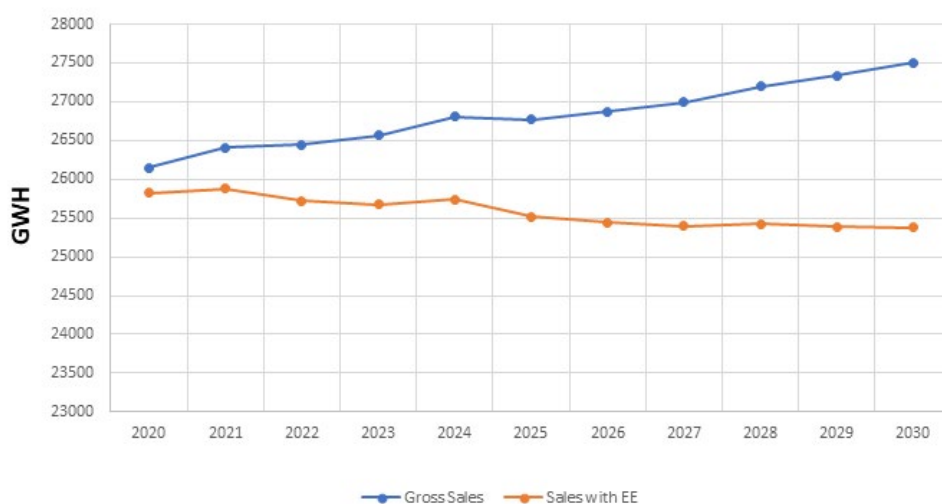
For the 2022-2024 term, the Companies expect to achieve 516 annual GWh savings and annual 1,609 MMcf savings, which is enough to power ~93,000 homes for one year. Figure 1-D below depicts the projected electric (in GWhs) savings resulting from the Companies' energy efficiency and demand management programs and how energy efficiency is a valuable resource for the state to decrease

electricity consumption in Connecticut. The *Gross Sales* data (blue line) details the forecasted electric consumption unchecked by the projected impacts of energy efficiency efforts in Connecticut. The *Sales with Energy Efficiency* data (red line) reflect the projected impacts to electricity consumption due to Connecticut's energy efficiency program.

The figures below provide a summary of the projected annual savings from the Electric Companies' energy efficiency programs in the 2019-2021 Plan and the percentage of electric sales. The Companies will implement the following strategies during the 2022-2024 term to drive electric energy savings:

- Increase outreach efforts to reach more customers and market segments across the Residential and C&I sectors who have historically not participated in energy efficiency.

**Figure 1-E: Projected Electric Savings**



- Increase workforce development efforts, including contractor training and education, to drive energy efficiency and create a pipeline of energy-saving projects.
- Expand weatherization efforts to increase electric savings.
- Focus on end-use equipment and market actions (e.g., smart thermostats, advanced power strips, and high-efficiency HVAC equipment) that reduce electric consumption.

**Figure 1-F: Electric Companies—Summary of Annual Savings and Percentage of Sales**

Companies	2022			2023			2024			2022-2024		
	GWh Sales	Annual Savings (GWhs)	% of Sales	GWh Sales	Annual Savings (GWhs)	% of Sales	GWh Sales	Annual Savings (GWhs)	% of Sales	GWh Sales	Annual Savings (GWhs)	% of Sales
Eversource (electric)	20,181	151.3	0.75%	20,139	134.5	0.67%	20,200	123.1	0.61%	60,520	409.0	0.68%
United Illuminating	4,727	39.0	0.83%	4,674	34.8	0.74%	4,622	32.8	0.71%	14,023	106.6	0.76%
<b>Total</b>	<b>24,908</b>	<b>190.4</b>	<b>0.76%</b>	<b>24,813</b>	<b>169.3</b>	<b>0.68%</b>	<b>24,822</b>	<b>155.9</b>	<b>0.63%</b>	<b>74,543</b>	<b>515.5</b>	<b>0.69%</b>

**Figure 1-G: Electric Companies—Summary of Lifetime Savings**

	2022		2023		2024		2022-2024		
	Eversource Lifetime Savings (GWhs)	United Illuminating Lifetime Savings (GWhs)	Eversource Lifetime Savings (GWhs)	United Illuminating Lifetime Savings (GWhs)	Eversource Lifetime Savings (GWhs)	United Illuminating Lifetime Savings (GWhs)	Eversource Lifetime Savings (GWhs)	United Illuminating Savings (GWhs)	Total Lifetime Savings (GWhs)
Residential	339.3	62.4	323.9	60.5	299.2	57.3	962.4	180.2	1,142.6
C&I	1,023.0	293.6	890.3	255.5	826.9	240.4	2,740.2	789.5	3,529.7
<b>Total</b>	<b>1,362.3</b>	<b>356.0</b>	<b>1,214.2</b>	<b>316.0</b>	<b>1,126.1</b>	<b>297.7</b>	<b>3,702.66</b>	<b>969.7</b>	<b>4,672.3</b>

### 1.5.2 Natural Gas Savings

The figures below detail the projected annual savings from the Natural Gas Companies' energy efficiency programs and percentage of natural gas sales. While still modest in terms of percent of consumption, the Companies will implement the following strategies during the 2022-2024 term to drive natural gas energy savings:

- Increase outreach efforts to reach more customers and market segments across the Residential and C&I sectors who have historically not participated in energy efficiency.
- Increase workforce development efforts, including contractor training and education, to drive energy efficiency and create a pipeline of energy-saving projects.

- Expand weatherization efforts to increase natural gas savings.
- Focus on end-use equipment and market actions (e.g., smart thermostats, and high-efficiency HVAC equipment) that reduce natural gas consumption.

**Figure 1-H: Natural Gas Companies—Summary of Annual Savings and Percentage of Sales**

Companies	2022			2023			2024			2022-2024		
	MMcf Sales	Annual Savings (MMcf)	% of Sales	MMcf Sales	Annual Savings (MMcf)	% of Sales	MMcf Sales	Annual Savings (MMcf)	% of Sales	MMcf Sales	Annual Savings (MMcf)	% of Sales
Eversource (natural gas)	53,155	232.9	0.44%	54,801	240.0	0.44%	55,823	242.1	0.43%	163,780	714.1	0.44%
Connecticut Natural Gas	37,235	150.5	0.40%	37,369	152.3	0.41%	37,525	150.8	0.40%	112,128	453.5	0.40%
Southern Connecticut Gas	33,067	144.4	0.44%	33,510	148.5	0.44%	33,851	147.9	0.44%	100,428	440.9	0.44%
<b>Total</b>	<b>123,457</b>	<b>527.8</b>	<b>0.43%</b>	<b>125,680</b>	<b>540.7</b>	<b>0.43%</b>	<b>127,199</b>	<b>540.8</b>	<b>0.42%</b>	<b>376,336</b>	<b>1,608.5</b>	<b>0.43%</b>

**Figure 1-I: Natural Gas Companies—Summary of Lifetime Savings**

Sector	2022 Lifetime Savings (MMcf)	2023 Lifetime Savings (MMcf)	2024 Lifetime Savings (MMcf)	2022-2024 Lifetime Savings (MMcf)
Residential	4,909.0	5,042.2	5,106.0	15,057.2
C&I	2,913.4	2,983.0	2,951.4	8,847.8
<b>Total</b>	<b>7,822.4</b>	<b>8,025.2</b>	<b>8,057.4</b>	<b>23,905.0</b>

## 1.6 FUNDING SOURCES

For the 2022-2024 term, the primary funding sources for Connecticut’s energy efficiency programs will be: (1) a six-mill Conservation Adjustment Mechanism (CAM) on customer electric bills<sup>47</sup> and (2) contributions from natural gas customers (on firm rates) through the natural gas CAM. Additional funding sources for the 2022-2024 term will include the Regional Greenhouse Gas Initiative (RGGI), a Northeast carbon trade system and the Independent System Operator-New England’s (ISO-NE) Forward Capacity Market (FCM). The figures below summarize the statewide funding for the 2022-2034 Plan’s electric and natural gas energy efficiency programs.

<sup>47</sup> Similar to a millage rate tax structure on property, the CAM charge is a 0.6 cent per kilowatt-hour charge to support energy efficiency programs.

**Figure 1-J: Electric Program Funding Sources**

	2022 Eversource Electric Revenues	2022 UI Revenues	2022 Combined Total	2023 Eversource Electric Revenues	2023 UI Revenues	2023 Combined Total	2024 Eversource Electric Revenues	2024 UI Revenues	2024 Combined Total
ISO-NE FCM	\$24.6	\$4.9	\$29.6	\$16.1	\$3.2	\$19.3	\$12.7	\$2.7	\$15.4
RGGI	\$13.9	\$3.5	\$17.4	\$14.1	\$3.5	\$17.6	\$13.5	\$3.4	\$16.9
CAM (Net of Gross Receipts Tax)	\$115.6	\$26.5	\$142.1	\$115.4	\$26.2	\$141.6	\$115.7	\$25.9	\$141.6
<b>TOTAL (Energy Efficiency Revenues)</b>	<b>\$154.2</b>	<b>\$34.9</b>	<b>\$189.1</b>	<b>\$145.5</b>	<b>\$32.9</b>	<b>\$178.4</b>	<b>\$141.9</b>	<b>\$32.0</b>	<b>\$173.9</b>

\*In millions. Totals may vary due to rounding.

**Figure 1-K: Natural Gas Program Funding Sources**

Natural Gas Energy Efficiency Revenues	2022 Conservation Adjustment Mechanism	2023 Conservation Adjustment Mechanism	2024 Conservation Adjustment Mechanism
Eversource Natural Gas Revenues	\$23.4	\$24.1	\$24.5
Connecticut Natural Gas Revenues	\$16.3	\$16.4	\$16.5
Southern Connecticut Gas Revenues	\$14.5	\$14.7	\$14.8
<b>TOTAL (Energy Efficiency Revenues)</b>	<b>\$54.2</b>	<b>\$55.2</b>	<b>\$55.8</b>

\*In millions. Totals may vary due to rounding.

## 1.7 PERFORMANCE MANAGEMENT INCENTIVES

The Companies earn an annual pay-for-performance management incentive for managing Connecticut's energy efficiency and demand management programs and budgets. A performance management incentive is tied to program specific-oriented metrics, including, but not limited to energy savings and net economic benefits. Performance management incentive earnings using a sliding scale are based on a percentage of Company spending (2.5 percent to 6.5 percent) corresponding with the level of performance (75 percent to 115 percent) dependent on if goals and/or targets are met or exceeded.

For the 2022-2024 term, the Companies propose a base target 5.0 percent performance management incentive payout at 100 percent goal achievement for the 2022, 2023, and 2024 program years. Other changes to the 2022-2024 performance management incentive model include incorporating benefits/net benefits from Residential and C&I Active Demand

Response programs and including fossil benefits and net benefits (i.e., utilize the Modified Utility methodology versus the Utility Benefit methodology). In Connecticut, there are two types of metrics:

- **Primary metrics.** These are program specific-oriented metrics, including energy savings/benefits and net energy savings benefits (benefits minus costs). The benefits are achieved from program savings (lifetime energy savings) including electric (kWh), natural gas (ccf), and fossil fuel (gallons), as well as summer peak demand savings from both passive and active demand resources.
- **Secondary metrics.** These metrics are complementary metrics and target other areas such as increased energy savings from all fuel types (MMBtus), program participation, comprehensiveness, equity, and outreach to specific groups or types of customers, and program comprehensiveness. Secondary metrics can include: but are not limited to: (a) Number of single-family homes served that receive a specific add-on measure, and (b) Number of new construction C&I projects built a certain percentage above state building code.

For individual Company-specific performance management incentive metrics, please see Appendix E. For Portfolio-level secondary metrics, please see Section 2.1.6 (Residential) and Section 3.1.7 (C&I). The weights for performance management incentive metrics are detailed in the figure below.

**Figure 1-L: Performance Management Incentive Weights (Electric and Natural Gas)**

	Benefit Energy Efficiency (Passive)	Net Benefit Energy Efficiency (Passive)	Benefit Demand Reduction (Active)	Net Benefit Reduction (Active)	Secondary Metrics	Total
<b>Electric</b>						
Residential Allocation	20.99%	20.99%	0.45%	0.45%	9.0%	51.88%
C&I Allocation	17.45%	17.45%	1.11%	1.11%	10.0%	47.12%
Evaluation Allocation	-	-	-	-	1.0%	1.0%
<b>Total</b>	-	-	-	-	-	<b>100.0%</b>
<b>Natural Gas</b>						
Residential Allocation	21.44%	21.44%	-	-	9.0%	51.88%
C&I Allocation	18.56%	18.56%	-	-	10.0%	47.12%
Evaluation Allocation	-	-	-	-	1.0%	1.0%
<b>Total</b>	-	-	-	-	-	<b>100.0%</b>

## SECTION TWO: RESIDENTIAL PORTFOLIO

### 2.1 OVERVIEW

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The Residential Portfolio delivers comprehensive energy savings to residential customers across the state. For more than 20 years, the Companies have developed and implemented a wide range of energy efficiency and demand management programs and offerings to increase energy affordability, make homes more comfortable and healthier, reduce peak demand on the grid, support economic development and job creation, and reduce greenhouse gas and other air pollutant emissions through reduced electric, natural gas, and delivered fuel consumption. For the 2022-2024 term, the Companies will continue to evolve the Residential Portfolio to promote greater weatherization measures, integrate energy efficiency and active demand response strategies, encourage the purchase of energy-efficient products, and to increase the installation and use of low-carbon heating, cooling, and water heating technologies, such as heat pumps and heat pump water heaters.

Over the past two decades, the Residential Portfolio has changed significantly and will continue its evolution during the 2022-2024 term due to new conditions, federal standards, building codes, policies, and technologies. The largest changes in the Portfolio are due to the widespread adoption of energy-efficient lighting in the marketplace. In previous Plan terms, the Companies had to heavily promote, market, and incentivize energy-efficient lighting to influence customers' purchasing decisions and the resulting energy savings made up a large proportion of the Residential Portfolio. As the 2022-2024 term begins, the Companies recognize that their efforts at market transformation have been successful and light-emitting diodes (LEDs) are now the standard bulbs on most retail shelves. As a result, for the upcoming term, the Companies will only provide limited incentives and support to retailers in communities with historically limited customer participation in energy efficiency and who have low adoption rates of high-efficiency LEDs.

During the 2019-2021 term, the Companies began to transition the Residential Portfolio's offerings away from lighting to non-lighting measures to generate energy savings, reduce greenhouse gas emissions, and to make energy more affordable. This transition has resulted in a new focus on whole-home comprehensive energy efficiency projects and measures that increase energy affordability, influence decarbonization of the electric grid, and drive energy savings in an equitable manner to residential customers across the state. For the upcoming term, the Companies will increasingly promote non-lighting measures such as air sealing, duct sealing, insulation, active demand response strategies, energy-efficient appliances and electronics, and high-efficiency HVAC and water heating equipment and systems.

The Companies will also continue to engage customers, distributors, retailers, and manufacturers through the upstream, midstream, and downstream market channels. A key focus will be on education, training, and engagement of market actors in these channels to influence energy efficiency. To support decarbonization efforts, the Companies launched an online portal in the 2021 program year to train and certify contractors regarding high-efficiency HVAC and water heating equipment and will use this platform throughout the upcoming term. In addition, the Companies will leverage manufacturer and distributor outreach and training to support their own efforts in influencing the marketplace toward energy efficiency.

The Residential Portfolio is an investment in the state's local economy and employs a robust workforce of skilled professionals including home performance services contractors, home energy raters, architects, builders, and energy auditors, as well as retailers and product distributors of energy-efficient appliances, electronics, HVAC equipment and

systems, and active demand response technologies. For the upcoming term, the Companies remain focused on diversifying and growing the workforce that supports the Residential Portfolio’s programs and initiatives. The everchanging landscape of the residential marketplace necessitates continued contractor education and outreach, field staff training that includes soft skills, technical training and certifications, and an increased push to include workers who reflect the diversity of the communities they serve. The Companies’ Workforce Development Initiative (detailed in Section Four of this Plan) is designed to support the needs of the current and future energy efficiency workforce in Connecticut. This infrastructure supporting the workforce is critical in helping the Companies meet the Residential Portfolio’s goals and energy savings set forth in this 2022-2024 Plan.

For the upcoming term, the Companies have designed a Residential Portfolio capable of evolving rapidly to meet customer demands, emerging technologies, federal and local regulations, and state and national energy code modifications. The rest of Section Two details the key priorities, themes, and designs of the Residential Portfolio’s programs and initiatives for the upcoming term.

### 2.1.1 Residential Programs

For the 2022-2024 term, the Companies will deliver a comprehensive Residential Portfolio to all residential market segments, including the new construction, single-family, multifamily, market-rate, and income-eligible markets. These energy efficiency and demand management programs and initiatives are designed to help residential customers reduce their energy costs, save energy, and decrease greenhouse gas emissions, as well as support the three key priorities for the upcoming term—equity, decarbonization, and energy affordability.

**Figure 2-A: Residential Portfolio**



- Retail Products.** This broad-based program is designed to increase the awareness, acceptance, and purchase of ENERGY STAR certified appliances, consumer electronics, and products in the marketplace. The Companies accomplish this through consumer education, point-of-sale marketing, an online sales platform, incentives designed to make energy-efficient choices financially attractive, and upstream, midstream, and downstream market channels to reach customers, distributors, retailers, and manufacturers.
- HVAC and Water Heating Equipment.** This program positions high-efficiency HVAC and water heating equipment as the best choices for residential customers making purchasing decisions regarding heating, cooling, and hot water systems through the implementation of multiple market channels, education, and financial incentives. The program focuses on marketing to customers and market actors, as well as training and support for distributors and contractors to ensure high-efficiency equipment is promoted, stocked, sold, and correctly installed.



- **Residential New Construction.** This program provides incentives to builders and homeowners who integrate advanced energy-efficient building construction and technologies into the construction of new homes and residential buildings undergoing major renovation and additions projects. The program supports the transition of the residential new construction marketplace toward high-efficiency building standards and equipment installations through a tiered incentive structure, bonus incentives for advanced building certifications, contractor and customer education, and code trainings.
- **Home Energy Solutions.** Designed as the Companies' home performance services program for market-rate customers, the HES program promotes and facilitates energy efficiency upgrades in existing homes to optimize home energy performance, reduce energy consumption, and to increase the health, safety, and comfort of single-family residential homes in Connecticut. The program provides customer education on products and services and direct-install services of energy-efficient and hot water-saving measures. Additionally, the program qualifies the home for high-efficiency upgrade rebates and serves as a cross-promotional marketing channel for demand management programs.
- **Home Energy Solutions-Income Eligible.** The HES-Income Eligible program is designed to decrease the energy burden of income-eligible customers (households whose incomes are at or below 60 percent of the State Median Income) living in single-family homes through customer education on products and services, the direct-install of air sealing, duct sealing, and HVAC and water heating equipment testing, and the qualification of the home for additional energy-efficient upgrades. Though similar to HES, this program's services are offered at no cost to the customer. Upgrades for additional energy efficiency measures (e.g., appliances, windows, insulation, appliances, active demand response) are also covered through nominal customer or landlord contributions.
- **Multifamily Initiative.** This holistic whole-building approach to energy efficiency provides assessment and direct-install services to income-eligible and market-rate tenants and owners of multifamily buildings. This unique initiative combines programmatic elements of the single-family home performance services programs (HES and HES-Income Eligible), with the energy-saving solutions found in the Companies' C&I Portfolio programs (Energy Opportunities and Small Business Energy Advantage). For more information regarding the C&I Portfolio, see Section Three of this Plan.
- **Behavioral Strategies.** The Companies will use data-driven usage insights, information, social cues, and other prompts to motivate customer behavior changes and encourage participation in energy efficiency programs. The Companies will use their previous experience with traditional behavior programs and digital customer engagement to drive behavioral changes in the upcoming term.
- **Demand Management.** The Companies provide incentives to customers who enroll their devices (e.g., smart thermostats, HVAC equipment, electric vehicle chargers) into active demand response offerings that promote a decrease in energy consumption during periods of peak demand.

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### 2.1.2 Key Priorities and Themes

For more than a decade, Connecticut has ranked as one of the top states in the nation for energy efficiency by the ACEEE in its annual state scorecard. To maintain its leadership role, Connecticut must advance its energy efficiency policies, programs, and goals to address emergent economic, social, and environmental issues that face residential customers, businesses, local governments, the state, and nation. For the 2022-2024 term, the Companies, the EEB, and DEEP have identified three top priorities for Connecticut's energy efficiency and demand management initiatives to address—equity, decarbonization, and energy affordability.

The Companies have developed their plans for the 2022-2024 Residential Portfolio's programs and initiatives with the intent to align all efforts with these key priorities. In addition, the Companies have identified additional themes and needs of the Residential sector to ensure that energy efficiency goals are met in the upcoming term, and these are detailed below.

### Priority 1: Equity

As recent events in the United States have shown, there are widespread issues of systemic societal inequity and racial injustice that persist. For the 2022-2024 term, the Companies are intent on ensuring that the Residential Portfolio delivers the benefits of energy efficiency to all residential market segments. To address inequity, the Companies must first understand how participation in the Residential Portfolio is distributed across the state to identify communities where groups of customers participate at relatively lower levels than other groups. This understanding helps the Companies identify the social, economic, racial, ethnic, linguistic, and/or cultural attributes of these underserved communities and what systemic inequities contribute to these groups' lower participation levels in energy efficiency.

For the 2022-2024 term, the Companies will collaborate with community-based organizations and nonprofits to perform the needed work to overcome the inequities that persist in communities with historically limited program participation. These organizations have the trust of the community and the insight to make inroads in awareness and to drive increased participation in energy efficiency. These outreach efforts will ensure that the benefits of energy efficiency reach all residential customers across the state, particularly for customers who reside in distressed municipalities and environmental justice communities.

The Companies' equity efforts in the 2022-2024 term will be influenced by DEEP's Equitable Energy Efficiency proceeding launched in September 2020.<sup>48</sup> The purpose of this proceeding is to define equity in the context of energy efficiency and demand management programs and to expand participation in the Portfolios, particularly within distressed communities. It is envisioned that the proceeding will result in more than just the creation of a new equity performance management incentive metric (initiated in the 2021 Plan Update) to measure the Companies' performance in the electric portfolio. This equity metric requires the Companies to track participation in the HES or HES-Income Eligible programs of electric customers enrolled in the Matching Payment Program and to achieve a 2.1 percent increase in HES-Income Eligible program participation by the end of the 2021 program year.

For the 2022-2024 term, the Companies will broaden this residential equity metric to include financial and medical hardship customers. With the recent issuance of the E3 Phase I recommendations in July 2021, the Companies will work closely with DEEP, the EEB, the EEB consultants, and other stakeholders to make modifications to the Residential Portfolio to increase the equitable distribution of programs and their derived benefits across the state. The Companies will also focus their outreach and educational efforts to reach those groups of customers across the state with lower participation levels, particularly for customers who reside in distressed municipalities and environmental justice communities.

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<sup>48</sup> DEEP, *Notice of Equitable Energy Efficiency Proceeding and Request for Written Comments*, Sep. 3, 2020, available online at: [http://www.dpuc.state.ct.us/DEEP/energy.nsf/c6c6d525f7cdd1168525797d0047c5bf/12c36ce3c4b5a80c852585d80046845f/\\$FILE/Notice%20of%20Equitable%20EE%20Proceeding%20&%20Req%20for%20Written%20Comments.pdf](http://www.dpuc.state.ct.us/DEEP/energy.nsf/c6c6d525f7cdd1168525797d0047c5bf/12c36ce3c4b5a80c852585d80046845f/$FILE/Notice%20of%20Equitable%20EE%20Proceeding%20&%20Req%20for%20Written%20Comments.pdf).

Additionally, in the upcoming term, the Companies will include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for residential program vendors.

## Priority 2: Decarbonization

The US Energy Information Administration reports that single-family and multifamily households account for 55 percent of the energy used in the building sector in the United States.<sup>49</sup> The major energy end uses in Northeast homes are space heating (53.4 percent), water heating (16.9 percent), and air conditioning (3.4 percent); collectively accounting for approximately 73 percent of an average household's annual energy consumption.<sup>50</sup> In Connecticut, the primary heating sources are oil, natural gas, electric, and other delivered fuels (e.g., propane, kerosene, etc.). Fossil-fuel heating systems emit more carbon dioxide into the air, increasing the greenhouse gases emitted by the building sector.

The Companies' goal for the 2022-2024 term is to significantly invest in and deploy decarbonization strategies that benefit residential customers, protect the environment, and improve indoor air quality. The Companies will look to DEEP and the EEB for guidance in developing and modifying the decarbonization strategies listed below for the Residential Portfolio. This will help align the decarbonization strategies with statewide goals for greenhouse gas emissions reductions and energy consumption, such as the 2021 Comprehensive Energy Strategy, the GC3 (Governor's Steering Committee on Climate Change), Public Act 18-82, and the Global Warming Solution Act's 2050 target goals.

Energy efficiency is critical in helping states and regions meet their zero emissions goals over the next few decades. Efficiency helps reduce load (demand), decreasing the amount of clean energy needed to power the grid and reducing the higher costs of renewable energy technologies. As the grid becomes more renewably-powered, electricity becomes the cleaner fuel. The Companies plan to weatherize more single-family and multifamily residential buildings to prepare them for high-efficiency heating and cooling technologies that are renewably-powered by clean energy sources. It is critical that the Companies increase the number of homes weatherized as energy efficiency reduces the amount of energy needed by the residential building sector. These energy consumption reductions result in decreased amounts of carbon dioxide (and other air pollutant) emissions into the environment.

In the 2022-2024 term, the Companies will push for increased air sealing, duct sealing, and installations of high-efficiency insulation and windows to prevent heating and cooling losses, as well as the installation of water-saving measures to reduce waste and the amount of energy needed to supply hot water to the home. In addition, the Companies will promote the use of more ENERGY STAR certified appliances and electronics, as well as advanced power strips, to reduce the amount of electricity used in residential buildings.

In the upcoming term, the Companies will prioritize transitioning customers to heat pump technologies if they are more likely to experience reduced heating costs. Customers who heat their homes with electric resistance and delivered fuels (i.e., oil and propane) will see greater reduction in their overall energy bills than residential customers who heat with

<sup>49</sup> US Energy Information Administration, *What's New in How We Use Energy at Home: Results from EIA's 2015 Residential Energy Consumption Survey (RECS)*, rel. May 2017, available online at: <https://www.eia.gov/consumption/residential/data/2015/>. The 2020 RECS household survey data collection began in September 2020 and concluded in spring 2021. The EIA plans to release initial estimates on key household characteristics in late 2021 and final state-level energy consumption and expenditure data, as well as survey microdata, will be available in early 2023.

<sup>50</sup> See 2015 RECS.

natural gas. The move to heat pump technologies results in increasingly reduced carbon dioxide emissions. This protects the environment and serves as an effective mitigation strategy in the move to decarbonize the grid.

For the 2022-2024 term, the Companies will focus on promoting the installation of more heat pump technologies including air source heat pumps, central and ductless heat pumps, ground source heat pumps, air-to-water heat pumps, and packaged and split heat pump water heater systems. Over the next three years, the Companies will make extensive investments in consumer education and workforce development trainings and certifications to build general awareness and familiarity around heat pumps. The 2021 heat pump pilot will be extended into the 2022-2024 term to ensure that all units are installed and their performance during the 2021-2022 heating season analyzed. The Companies are studying the effectiveness of the heat pump pilot, both to understand energy savings during the heating and cooling seasons and customer satisfaction. EEB's third-party evaluator is aware of this effort and may conduct additional evaluation needed to assess the results of the pilot. Once the analysis has been completed, this will help the Companies determine what modifications to might be required to transition the pilot to a full-fledged program during the upcoming term.

Residential new construction projects will also benefit from the Companies' decarbonization strategies in the upcoming term. The Companies plan to heavily promote sustainable building practices, such as Zero Energy Homes, Leadership in Energy and Environmental Design, and Passive House, to architects, builders, code officials, contractors, home energy raters, and other residential new construction market actors. This will include increased contractor education and training, as well as extensive outreach to promote low-carbon heating and cooling technologies. These efforts will ensure the decarbonization of the new residential construction sector for the long term. The Companies will also transition their current Major Renovations & Additions pilot to a program pathway in the upcoming term. The purpose of this new pathway is to promote energy efficiency in existing homes undergoing major home improvements of existing areas (renovations) and additions (new conditioned space) greater than five hundred square feet.

In addition, the Companies will scale up their active demand response offerings for electric vehicles by establishing make-ready requirements for residential new construction projects, in addition to continuing to incentivize new construction projects that meet solar photovoltaic make-ready protocols.

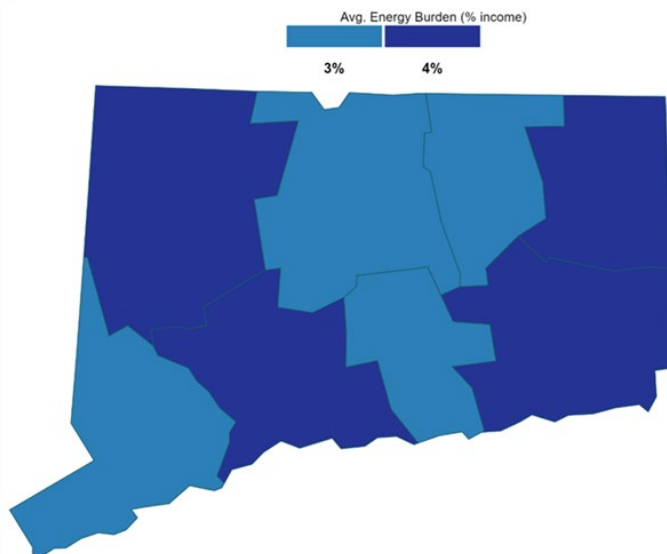
### Priority 3: Energy Affordability

Nearly one-third of US households report facing a challenge in paying energy bills or sustaining adequate heating and cooling in their home.<sup>51</sup> A household's energy burden is defined as the percentage of household income spent on energy bills. The energy burden is considered "high" if more than 6 percent of household income is spent on energy bills and very often, low-and-median income households are disproportionately affected. Households with high energy burdens must deal with difficult trade-offs between paying for utility bills or basic necessities like food and medicine. According to the DOE's Low-Income Energy Affordability Data (LEAD) tool, the average energy burden across Connecticut is 3 percent (in

<sup>51</sup> Fisher, Sheehan, and Colton's *Home Energy Affordability Gap Analysis* defines households with a 6 percent energy burden or higher as households with high energy burden, online at: [www.homeenergyaffordabilitygap.com/](http://www.homeenergyaffordabilitygap.com/).

Fairfield County, Hartford County, Middlesex County, and Tolland County) and 4 percent (in Litchfield County, New Haven County, New London County, and Windham County).<sup>52</sup>

**Figure 2-B: Average Energy Burden (% income) in CT**



Households with incomes at or below 60 percent of the State Median Income were found to have higher energy burdens than those with household incomes above the State Median Income. The LEAD tool data shows that energy affordability is a pressing issue with low-and-moderate income households in Connecticut experiencing high energy burdens three times more than the average household. In Connecticut, low-income is defined as a household whose income is at or below 60 percent of the State Median Income and moderate income as a household whose income is at or below 80 percent of the State Median Income and above 60 percent. Figure 2-C shows the average energy burden of households broken down by their incomes and how their heating fuel type (electricity, natural gas, and other fuels).

According to a recently released report, Connecticut households' expenditures on energy, transportation, and housing exceeds affordable levels in areas throughout the state. The average costs are 49 percent statewide, which is above the 45 percent threshold for affordability.<sup>53</sup> Low-and-moderate income households have a higher rate of 68 percent (as compared to wealthier residents) because these costs constitute a larger portion of their household income. The report also found that high energy burdens were clustered in urban areas such as New Haven, Hartford, and Bridgeport and that though there are few options available to help renting households, that the HES and HES-Income Eligible programs reduce building energy burden.

The above-referenced data shows that energy affordability is a pressing issue with Connecticut's low-income households experiencing high energy burdens three times more than the average household. The HES and HES-Income Eligible programs, and the Multifamily Initiative help to reduce the high energy burdens faced by low-and-moderate income households (as well as market-rate customers) and serve thousands of existing single-family and multifamily homes annually. For the 2022-2024 term, the Companies will continue to prioritize energy affordability, though through the lens of equity to ensure that low-income households across different types of communities receive the program's valuable energy-saving services. In addition, the Companies recognize that there is an ebb and flow of households who qualify as income eligible; thus, making it important to continuously conduct education and outreach to raise awareness of the value of energy efficiency, demand management, and the home performance services programs and initiatives. Drivers of high energy burdens include chronic or sudden economic hardships, housing stock, types of heating systems and fuel

<sup>52</sup> Ma, Ookie, Krystal Laymon, Megan Day, Ricardo Oliveria, Jon Weers, and Aaron Vimont, *Low-Income Energy Affordability Data (LEAD) Tool Methodology*, 2019, Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-74249. Available at:

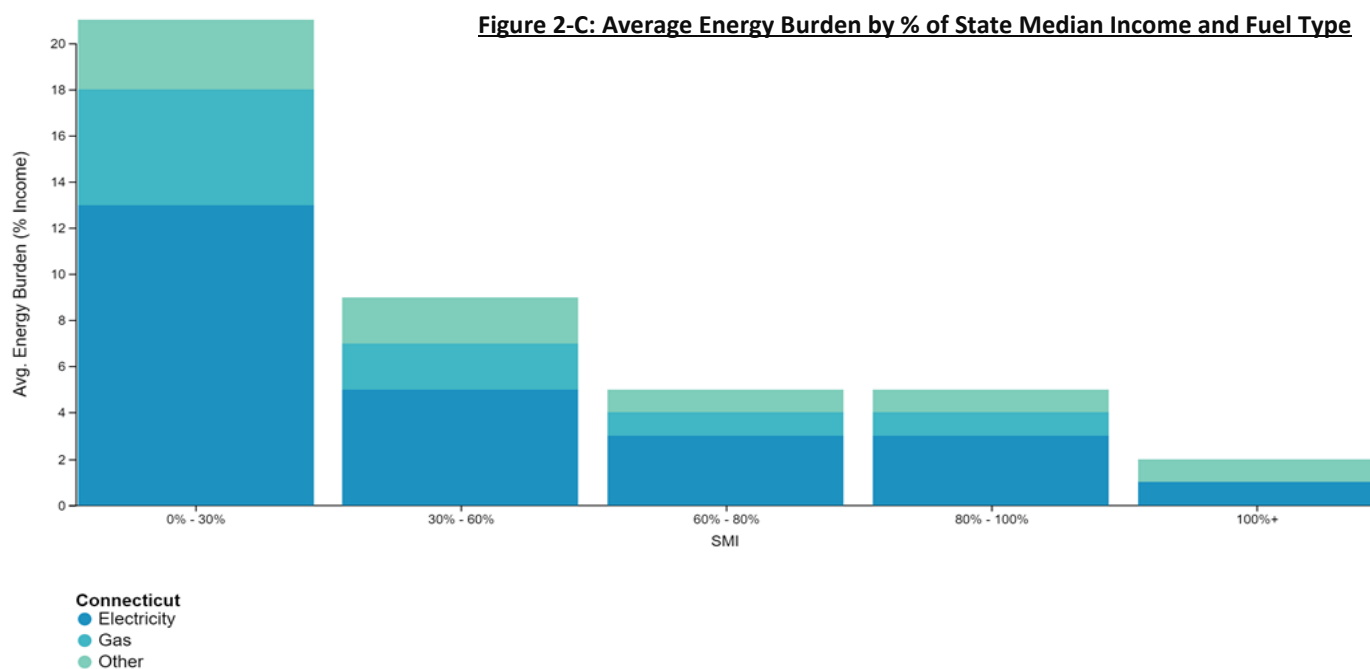
<https://www.nrel.gov/docs/fy19osti/74249.pdf>. Direct access to the LEAD tool can be found at: <https://www.energy.gov/eere/slsc/low-income-energy-affordability-data-lead-tool>.

<sup>53</sup> *Mapping Household Energy and Transportation Affordability in Connecticut*, study produced by Vermont Energy Investment Corporation on behalf of the CT Green Bank and Operation Fuel, Oct. 2020, available online at:

<https://www.veic.org/Media/Default/documents/resources/reports/Mapping-Household-Energy-and-Transportation-Affordability-Report-Oct-2020.pdf>.

types, inadequate insulation, inefficient appliances and lighting, health issues, and lack of awareness of bill payment assistance and energy efficiency programs. This includes promoting the HES-Income Eligible program alongside other financial hardship programs, such as the Matching Payment Program, to customers that are likely to qualify.

For most residential customers, even those with high energy burdens, participating in energy efficiency is not a top priority. Therefore, the Companies have to significantly invest in partnerships, education, and marketing that increase awareness regarding the Residential Portfolio, how to register (apply) for them, and the benefits of participation. This includes increasing the stocking and sale of efficient equipment at retailers, holding soft skills and technical trainings and programs for current and future energy efficiency workers to build capacity, and providing valuable web-based resources to educate customers about low-carbon technologies, high-efficiency products, and active demand response offerings.



The HES-Income Eligible program targets low-income households across the state. The program is designed to reduce energy consumption through weatherization and upgrades offered at little or no cost to participants. The program provides direct installation services of air sealing, duct sealing, water-saving devices (i.e., low-flow showerheads and faucet aerators), energy-efficient appliances, high-efficiency insulation, upgrades to HVAC and water heating equipment, demand reduction strategies, and behavioral changes. The program's energy-efficient measures can improve home health, safety, and comfort, as well as reduce energy usage in income-eligible customers' homes.

For the 2022-2024 term, the Companies will work to ensure that residents who need energy efficiency services the most are able to access them by conducting extensive education and outreach. Currently, the Companies, DEEP, and the Community Action Agencies are increasing their efforts to coordinate the HES-Income Eligible program and the federally-funded Weatherization Assistance Partnership (WAP) program to reach more low-income households. The Companies will also use their Community Partnership Initiative, introduced in 2021, as an extensive education and outreach platform to reach communities whose participation in energy efficiency has been limited due to systemic inequity (see Section 4.). Additional analysis to establish a new Energy Efficiency Equity baseline (E3b) will help identify the areas in the state that have lower participation and will inform new targeted customer outreach efforts. Leveraging additional funding sources during the 2022-2024 term will also allow the Companies to address weatherization health and safety barriers, such as

presumed asbestos-containing material and mold. Remediation of these barriers is required before advanced energy efficiency services can be performed in homes affected and energy savings can be realized.

In addition, the Companies will broaden their data collection and inclusion of multifamily properties to ensure that all buildings' common areas, shared systems, and apartment units are receiving valuable home performance services that increase energy affordability and comfort. Outreach to multifamily building owners and tenants will also increase in the upcoming term to ensure more affordable and market-rate units are retrofitted to reduce energy consumption and customer costs.

### *Other Goals*

#### Weatherization

For the energy efficiency sector, weatherization means improving a building's envelope to protect against the elements and upgrading the energy performance of buildings. For residential buildings this is achieved through measures such as air sealing, insulation, duct sealing, and window replacements. Weatherization services provide a number of benefits to residential customers including saving energy, making homes healthier and more comfortable by improving indoor air quality, saving money on bills, reducing wear and tear on HVAC equipment, increasing a home's value, and reducing greenhouse gas emissions.

Through the HES and HES-Income Eligible programs, the Companies encourage energy efficiency through the direct installation of certain measures and the issuance of prescriptive rebates and incentives for weatherization services and equipment upgrades. The home performance services programs generate significant and reliable energy savings (in MMBtus) and help the Companies support the State of Connecticut in meeting its legislative goal of weatherizing 80 percent of the state's existing homes by 2030.<sup>54</sup>

#### *Weatherization barriers*

For the upcoming term, the Companies are focused on addressing weatherization barriers which preclude energy efficiency services from being performed in residential buildings. Common weatherization health and safety barriers include presumed asbestos-containing material, knob and tube wiring, mold, vermiculite insulation, combustion safety, gas leaks, and carbon monoxide. Other organizations that work on health and safety barriers may consider lead, poor indoor air quality, and falls hazards, though these do not prevent weatherization work. While these health and safety barriers may overlap, the Companies' focus is on the weatherization health and safety barriers in order to be able to deliver comprehensive and cost-effective energy efficiency services and products.

During the 2016-2018 term, the Companies conducted a Clean Energy Healthy Homes Initiative to address weatherization barriers in homes.<sup>55</sup> This initiative provided great insight to the Companies on how to safely remediate weatherization barriers and follow through with comprehensive energy efficiency projects for their HES-Income Eligible customers. During the time the initiative was active, the Companies developed the *HES & HES-Income Eligible Program Field Guide for Health and Safety Barriers* as an informative tool for field technicians and to assist them with the complex nature of the conditions that can be found in residential homes. The guide describes how to weatherize homes that have had their weatherization health and safety barriers remediated. The guide includes customer education documents that are used as

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<sup>54</sup> Public Act 11-80, *An Act Concerning the Establishment of the Department of Energy Environmental Protection and Planning for Connecticut's Energy Future*.

<sup>55</sup> The Clean Energy Healthy Homes Initiative received funding by fees paid by the merger of Northeast Utilities and NSTAR.

resources for customers. The Companies remain poised to partner with other entities to assist with providing weatherization services after homes have had the weatherization or other barriers remediated. For the upcoming term, the Companies will look for a stable funding mechanism for the remediation of weatherization health and safety barriers in Connecticut residences. For single-family HES and HES-Income Eligible homes, the Companies have observed that more than 9 percent and 23 percent, respectively, contain weatherization health and safety barriers preventing the installation of energy efficiency measures.

The Companies currently work with the Building for Health Initiative to help customers in the City of Hartford and City of Waterbury address weatherization health and safety barriers. The initiative is designed as a cross-sector, cross-referral partnership that embraces a “no wrong door” approach so programs that help low and moderate-income customers can work with families to resolve their initial concerns and refer them to other programs for additional support. Healthy Homes teams up with local partners such as the Local Initiative Support Corporation (LISC), Eversource, United Illuminating, and Southside Institutions Neighborhood Alliance to help customers. This eases the burden for families so they can make their homes healthier without having to locate multiple resources on their own. The Companies will continue their partnership with the Building for Health Initiative during the 2022-2024 term.

In late 2020, the EEB and DEEP launched an initiative to develop and implement a Weatherization Barrier Remediation program. The development phase included a review of current statewide efforts to address health and safety barriers, including weatherization barriers, such as the HES-Income Eligible program, Connecticut Children’s Hospital Healthy Homes Program,<sup>56</sup> One Touch Referral Program, and CT Green Bank financing offerings.<sup>57</sup> In addition, the Companies reviewed nationwide programs and funds to see if efforts and funding overlapped. These programs and funds included LIHEAP, the Zonolite Attic Insulation Trust, and the Weatherization Assistance Program. DEEP and the EEB also benchmarked other utility and program administrator programs to determine best practices and which components should be considered in the development and implementation of the Weatherization Barrier Remediation Program. This research should help inform any future efforts to conduct weatherization or other health and safety barrier remediation.

For the upcoming term, the Companies will assist DEEP and other industry partners in their efforts to leverage funding from the LIHEAP and ARPA to address weatherization and other health safety barriers in Connecticut homes. This additional funding stream would allow the Companies to serve more customers, drive deeper energy savings, and use Energy Efficiency Fund dollars toward other programmatic elements.

#### *Bundling of measures*

In the 2022-2024 term, the Companies will simplify and streamline the energy efficiency process for residential customers by bundling measures and services into tiered packages with prescriptive costs and savings. These discrete bundles can promote the integration of different energy efficiency measures as one packaged solution. For example, the Companies will offer a bundled “HVAC package” that includes tiered incentives for HVAC equipment, smart thermostats, duct sealing,

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<sup>56</sup> The Healthy Homes program provides support to improve living conditions for families. Working with a team of licensed and certified experts, Healthy Homes assesses homes and develops a scope of work to address housing-related health hazards, such as lead-based paint, mold, asbestos, and injury risks.

<sup>57</sup> The CT Green Bank offers the Smart E-Loan, Energize CT Health & Safety Revolving Loan Fund, Loans Improving Multifamily Efficiency (LIME), and the Navigator Pre-Development Loan which help homeowners and property owners finance projects that address weatherization barriers.



and demand reduction program participation. These bundled packages would help customers understand how buildings systems are integrated and streamline program administration by offering a one-stop shop for energy efficiency.

*Co-delivery of energy efficiency and demand management programs*

Demand management strategies provide a number of benefits to customers and the grid, including improving the reliability of the grid and reducing customer costs due to reduced peak demand. Demand management strategies also provide environmental benefits by reducing energy usage which offsets the need for fossil-fueled power plants and results in greenhouse gas emissions reductions. The integration of active demand response offerings with energy efficiency programs is critical to the success of the Residential Portfolio.

For the 2022-2024 term, the Companies will use energy efficiency program delivery channels and measures as a seedbed for active demand response technologies, such as HVAC controls, building and energy management systems, and lighting controls. The Companies will promote active demand response technologies through their home performance services offerings (i.e., HES, HES-Income Eligible, and Multifamily Initiative), as well as through the Residential New Construction program. In addition, the Companies plan to establish make-ready requirements for active demand response technologies in residential new construction projects. This ensures that homes being built over the next few years are built to interact with current and future active demand response technologies. The Companies will increase customer education and outreach regarding active demand response programs, including cross-promotional efforts to advertise active demand response offerings with the sale of smart thermostats, plug load control devices, and other smart, connected technologies.

Workforce Development

Throughout the 2022-2024 term, the Companies will continue to provide and support workforce development for vendors, contractors, trade allies, and other stakeholders who work within the Residential Portfolio's programs and initiatives. The Companies understand that a robust and well-trained workforce drives energy efficiency savings and success in the portfolio. The Workforce Development Initiative ensures that residential market actors receive up-to-date training regarding building science and design, high-efficiency HVAC and water heating equipment installation, lighting design, emerging technologies, financing, and sales strategies. The Workforce Development Initiative's strategies, regional collaboration, and a list of expected trainings for the Residential Portfolio are detailed in Section 4.3.

In addition to the general workforce trainings referenced above, the Companies will continue to coordinate with trade allies, other energy efficiency administrators, and regional organizations to facilitate training opportunities for home performance services contractors, including but not limited to Building Performance Institute certifications (e.g., Building Analyst, Home Energy Professional, Healthy Homes Evaluator, Infiltration and Duct Leakage, etc.), DOE Home Energy Score Qualified Assessor, financing workshops, and weatherization barrier trainings.

In the upcoming term, the Companies will design and deploy additional training opportunities to deliver hands-on training to field crews in specific program information and soft skill training to help new employees to understand the overall goals and best practices. In addition, the Companies will work with distributors, manufacturers, and retailers to implement customer and contractor education regarding high-efficiency HVAC and water heating equipment, smart thermostats, active demand response strategies and connected devices, and Advanced Duct Sealing. The Companies will also coordinate with DEEP's workforce development efforts and other Connecticut clean energy workforce efforts and planned coordination.

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### 2.1.3 Process for Continued Improvement

The Companies understand that it is important for them to make constant evaluations and modifications of existing Residential Portfolio programs to ensure their efficacy, as well as the delivery of energy, cost, and environmental benefits to customers. To that end, the Companies actively participate on local, state, and national boards and organizations to stay up to date on new and emerging technologies, best practices, and research and evaluation findings.

For the 2022-2024 term, the Companies remain committed to a process for continued improvement in delivering cost effective and innovative energy efficiency programs to residential customers across the state. The Companies work with trade allies in the residential marketplace to understand the needs of contractors, distributors, manufacturers, retailers, and stakeholders, and proactively develop incentive structures, trainings, marketing materials, and program modifications in response. The residential energy efficiency marketplace is dynamic and ever evolving and the Companies must build in flexibility to the design of their programs and offerings.

Connecticut's policymakers and regulators have established an independent third-party evaluation process for Connecticut's energy efficiency programs. This process, managed by the EEB, results in evaluation findings and recommendations that assist the Companies in making process, energy-saving calculation, and design modifications to the Residential Portfolio programs. In addition to Connecticut-specific evaluations, the EEB authorizes regional evaluations of other energy efficiency programs to assess the Northeast marketplace and determine where cross-state collaborations may provide efficacy and energy savings to the state. Periodically, the Companies will also review other utility and energy efficiency administrators' activities across the United States to determine if new technologies or program designs should be integrated into the Residential Portfolio. These high-level reviews include state leaders in energy efficiency, including California, Massachusetts, New York, Oregon, Rhode Island, and Vermont.

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### 2.1.4 Codes, Standards, and Appliances

#### Connecticut Energy Code

The current Connecticut Energy Code is the 2015 International Energy Conservation Code (2015 IECC). In 2017, the Office of the State Building Inspector and the Codes and Standards Committee began preparing a draft Connecticut Supplement for the 2018 State Building Code. On January 2, 2018, the Connecticut Department of Administrative Services (DAS) issued a Draft for Public Comment. The Connecticut Supplement adopted the 2015 family of codes developed by the International Code Council and is also aligned with the State Fire Safety Code. This included Connecticut Residential Amendment *R402.4.1.2 – Thermal Envelope Testing* which added a new set of special requirements for low-rise attached dwelling units and Amendment *R403.3.4 – Duct Leakage Prescriptive*, which raised the allowable duct leakage value from 4 to 8 CFM25. The 2018 Connecticut State Building Code was adopted on October 1, 2018.<sup>58</sup>

The State Building Inspector, State Fire Marshal, and the Codes and Standards Committee have announced their intent to adopt the 2022 State Building and Fire Safety codes based on the 2021 editions of the International Code Council. The 2022 State Building Code will incorporate the 2021 IECC. The technical review of these codes will be conducted by the Committee's Code Adoption Subcommittee along with DAS staff. The review began in April 2021 and was completed in

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<sup>58</sup> Connecticut Department of Administrative Services. Final 2018 Connecticut State Building Code, Jan. 2, 2018, available online at: <https://portal.ct.gov/-/media/DAS/Office-of-State-Building-Inspector/2018-CT-State-Building-Code---Effective-10-01-18.pdf>.

October 2021. The state will essentially “skip” the 2018 IECC as the energy code baseline and move straight to the more stringent 2021 IECC.

### Code Compliance

For the 2022-2024 term, the Companies will continue to research current approaches for building code savings attribution used in Massachusetts, Rhode Island, and other states. In 2021, a third-party firm began the *Residential New Construction Baseline and Code Compliance Phase Study (R1968)*, an evaluation designed to assess code compliance rates for the Residential New Construction program. The results of this study will be used as a basis to measures savings attributable to future code compliance activities in the Residential Energy Efficiency Portfolio. To support code compliance in the upcoming term, the Companies will:

- Provide stretch code development support.** During the 2021 legislative session, the Connecticut General Assembly advanced stretch code legislation (HB 6572) out of committee.<sup>59</sup> The legislation proposed that municipalities would be allowed to establish a requirement that new or renovated buildings over 40,000 square feet must demonstrate that they use at least 10 percent per square foot less energy than maximum levels permitted under the state building code. The Companies will monitor if HB 6572 (or similar bill) becomes law during the 2022-2024 term. If stretch code legislation is passed into law, and a local government decides to adopt a stretch code, the Companies will provide technical and program support in the development of such a code for that municipality.
- Provide compliance support for base and stretch code.** The Companies will work with architects, local builders, contractors, and building enforcement officials to increase the number of buildings complying with the locally applicable energy code. The Companies will implement a series of code trainings, as well as outreach and technical support in the form of circuit riders, compliance documentation tool development, and review support.<sup>60</sup> These significant code training efforts should improve compliance with the 2021 IECC and mitigate the drop in code compliance which typically occurs with large code changes.

**Figure 2-D: Schedule of Code Compliance & Activities**

Code/Implementation Timeline	2021				2022				2023				2024				2025			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2021 CT State Building Code (Oct 2022)																				
Training/support on new code																				
Expected: 2022 CT Building Code																				
Residential buildings built to code																				
C&I buildings built to code																				

<sup>59</sup> HB 6572 was advanced out of committee but was tabled as the 2021 legislative session ended prior to coming to a vote before the entire Connecticut General Assembly. Proposed legislation is available online at: [https://www.cga.ct.gov/asp/cgabillstatus/cgabillstatus.asp?selBillType=Bill&bill\\_num=HB6572&which\\_year=2021](https://www.cga.ct.gov/asp/cgabillstatus/cgabillstatus.asp?selBillType=Bill&bill_num=HB6572&which_year=2021).

<sup>60</sup> Circuit riders are experts who meet with targeted groups of market actors (in this instance the new construction community) to address their specific needs and issues, enhance their knowledge, provide technical assistance, and modify their practices.

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### 2.1.5 Financing

A major barrier to implementing energy efficiency projects in homes are the upfront costs. Over the last two decades, the Companies have developed innovative residential financing solutions to help homeowners and property owners of single-family and multifamily buildings make energy improvements that lower customers' energy bills. For the 2022-2024 term, the Companies will continue to offer several financing options to residential customers pursuing comprehensive energy efficiency projects, including:

- **Energy Conservation Loan program.** This income-restricted program offers low-interest financing for eligible single-family homeowners (1-to-4-units) to borrow funds for a period of 10 years to make eligible improvements.
- **Energize CT Heating Loan program.** The program offers low-interest financing for the installation of new energy-efficient heating systems (e.g., boilers, furnaces, and electric heat pumps) that meet ENERGY STAR or higher ratings for heating equipment. Customer has the ability to make loan payments through their electric utility bill.
- **HES Payment Plan (Micro) Loan Financing program.** This program offers zero-interest loans for the implementation of qualified improvements and energy-efficient equipment replacements. This financing solution allows up to 20 percent of the total loan amount to be used to pay for non-listed work directly related or necessary to the installation of the eligible measures. Customer has the ability to make loan payments through their electric utility bill.
- **Smart E-Loan program.** The CT Green Bank offers this long-term and low-interest loan program to customers making energy-efficient improvements, including HVAC and water heating equipment, and clean energy (renewable) technologies. The property must be owner occupied, a single-family home (1 to 4 units), located in Connecticut, and condominiums must be individually metered.
- **C4C Landlord Loan program.** The Capital for Change, Inc. (C4C) offers the C4C Landlord Loan to property owners making energy-efficient improvements to their rental units, including insulation, HVAC and water heating equipment, windows, ground source heat pumps, weatherization and duct sealing (caulking and weatherstripping), clean energy technologies, and remediation of weatherization health and safety barriers (e.g., asbestos, mold).

The CT Green Bank Multifamily program provides customized financing solutions for multifamily buildings or complexes with five or more units, such as apartment buildings and complexes, condominiums and cooperatives, congregate and senior housing, and mixed-use residential and commercial properties. As in previous Plan terms, the Companies and CT Green Bank will work collaboratively together, where effective, to finance energy efficiency projects and achieve important energy policy objectives through improved CT Green Bank financing offerings. These offerings will increase the amount of private sector capital and align financing programs to fill market gaps and current unmet needs in the multifamily sector.

During the 2022-2024 term, the Companies will continue to work with DEEP, the EEB's consultants, the CT Green Bank, and C4C to identify financing program improvements, reduce customer costs, and increase program volume.

**Figure 2-E: 2022-2024 Residential Financing Solutions**

Financing Product	Loan Limits	Terms	Interest Rate	Funding Source
Energy Conservation Loan	\$400 to \$25,000	Up to 10 years	0% to 3%	C4C
Energize CT Heating Loan Program	Up to \$15,000	3 to 10 years, minimum down payment of 10%	0.99%	Systems Benefit Charge, managed by C4C
HES Payment Plan (Micro) Loan Financing Program	\$500 to \$3,000	Up to 36 months	0%	Managed by C4C
Smart E-Loan Program	\$500 to \$40,000	5 to 12 years, no down payment	4.49% - 6.99%	Local lenders (administered by the CT Green Bank)
C4C Landlord Loan	\$3,000 to \$40,000	5 to 12 years	4.49% - 6.99%	C4C

### 2.1.6 Performance Management Incentive Metrics

As discussed in Section 1.7, the Companies earn an annual performance management incentive for managing Connecticut's energy efficiency and demand management programs and budgets. The incentive is tied to program specific-oriented metrics, including, but not limited to energy savings and net economic benefits. Performance management incentives are typically based on a percentage of energy efficiency program costs and this percentage varies dependent on if goals and/or targets are met or exceeded. For the 2022-2024 term, the Companies have developed energy and demand savings metrics for measuring the success of the Residential Portfolio's programs and initiatives. The Companies will earn a performance management incentive for meeting the following program specific-oriented secondary metrics:

**Figure 2-F: 2022-2024 Residential Performance Management Incentive (Secondary Metrics)**

Program	Incentive Metric	Description
<b>Electric</b>		
HES	Increase in HES savings per ducted home	MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes)
	Increase in HES savings per non-ducted home	MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes)
	Increase in homes being weatherized	Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES assessments
HES-Income Eligible	Increase in HES-Income Eligible savings per ducted home	MMBtu per HES-Income Eligible single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes)
	Increase in HES-Income Eligible savings per non-ducted home	MMBtu per HES-Income Eligible single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes)
	Increase in homes being weatherized	Number of HES-Income Eligible homes that receive insulation rebates divided by the number of homes that receive the HES assessments

**Figure 2-F: 2022-2024 Residential Performance Management Incentive (Secondary Metrics)(continued)**

Program	Incentive Metric	Description
Residential New Construction	Increase % of efficient new homes	Percentage of participating units in the RNC program that achieve a HERS rating of 50 or less
Equitable Distribution	Percent of hardship customers participating in HES and HES-IE	The Companies will track the participation in 1-4 unit HES or HES-Income Eligible from Jan. 1, 2022 through Dec. 31, 2022 of all customers that are coded "medical and financial hardship" on Nov. 1, 2021
<b>Natural Gas</b>		
HES	Increase in HES savings	Achieve ccf savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes)
HES-Income Eligible	Increase in HES-Income Eligible savings	Achieve ccf savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes)

## 2.2 RETAIL PRODUCTS PROGRAM

### 2.2.1 Overview and Target Market

The Retail Products program is designed to create awareness, acceptance, and to promote the stocking and sale of ENERGY STAR certified appliances, electronics, and light-emitting diode (LED) lighting products. The program educates customers so they can make informed decisions about purchasing efficient electronics and products. For the 2022-2024 term, the Companies will offer incentives for energy-efficient appliances, electronics, and LEDs (in limited locations) through the following market channels: (1) upstream incentives, (2) upstream retail products platform (i.e., ESRPP), and (3) an e-commerce platform for the purchase of small electronics, rebate fulfillment, and product comparison of larger consumer appliances.

The Retail Products program's primary target market are residential customers who are making decisions regarding the purchase of appliances, electronics, and LEDs and getting them to purchase ENERGY STAR certified products. The secondary target market is retailers and distributors to influence their stocking and selling practices. By offering incentives and rebates, the Companies can tip the financial scales in favor of energy-efficient options, leading distributors and contractors to change what they stock and sell, which benefits the customer.

The following figure summarizes the Companies' projected energy savings, and program costs and benefits for the Retail Products program, including both electric, oil, and propane values.

**Figure 2-G: 2022-2024 Retail Products Savings & Benefits (Electric)\***

Planned Results	Total
Number of Products Sold (appliances and lighting)	1,226,360
Total Program Lifetime Savings, Electric (MWh)	212,383
Total Program Lifetime Savings, Oil (Gal)	9,575
Total Program Lifetime Savings, Propane (Gal)	113,441
Total Program Lifetime Savings (MMBtu)	736,340
Lifetime CO <sub>2</sub> Emissions Reduced (tons)**	85,856
Total Program Lifetime Benefits (\$000)	\$50,715
Total Program Costs (\$000)	\$13,901
<p><i>*Products sold include lighting and appliances (e.g., air purifiers, clothes washer, clothes dryer, refrigerators and freezers, induction cooktops, dehumidifiers, soundbars, power strips).</i></p> <p><i>**Please note that these are short tons.</i></p>	

## 2.2.2 2022-2024 Themes & Priorities

### Market Transformation

In previous Plan terms, the Retail Products platform was focused on influencing customers' purchasing decisions regarding lighting to encourage them to choose energy-efficient products. This influence was accomplished through the Companies' heavy promotion, marketing, and incentivization of ENERGY STAR certified bulbs. The Companies offered incentives to buy down the cost of energy-efficient bulbs to make their prices more competitive with standard incandescent bulbs and the resulting savings have historically made up the largest proportion of the Residential Portfolio's energy savings.

With the 2022-2024 term beginning, the retail marketplace has been transformed by the Companies' historical efforts. LEDs are now the predominant bulbs on retail and distributor shelves and incentives and promotional activities are not as needed to influence customers' purchasing decisions. During the upcoming term, the Companies will only incentivize a limited number of LEDs in markets where conventional retail and marketing channels are still needed to influence customers. This will include discount stores where the Companies can reach communities with low participation rates and low adoption levels of LEDs.

### Potential for Revised Federal Standards for Lighting

Throughout the 2019-2021 term, there was great uncertainty regarding the implementation of the Energy Independence & Security Act of 2007 (EISA).<sup>61</sup> This federal legislation had established national energy efficiency standards for light bulbs and manufacturers, distributors, retailers, and energy efficiency program administrators had begun to prepare for more stringent standards. Phase 2 and Phase 3 of EISA's light bulb standards were slated to go into effect on January 1, 2020 (EISA 2020 standard) and January 1, 2025 (EISA 2025 standard), respectively.

<sup>61</sup> Public Law 110-40. Energy Independence and Security Act of 2007. Dec. 19, 2007.

On February 11, 2019, the DOE published a Notice of Proposed Rulemaking that proposed withdrawing the revised definitions of general service lamp (GSL), general service incandescent bulb (GSIL), and other supplemental definitions that were slated to go into effect as part of the EISA 2020 standard. On September 5, 2019, the US DOE rescinded the expanded definition of GSLs, reversed its 2017 decision to expand the types of GSLs subject to the stricter standards, and allowed exemptions for specialty lamps.<sup>62</sup> With this ruling, the US DOE withdrew the prior rules regarding the EISA 2020 standard that were to become effective on October 17, 2019, which were intended to phase out the incandescent bulb in favor of high-efficiency LEDs and fluorescent bulbs and fixtures.<sup>63</sup> On September 5, 2019, the DOE also issued a proposed determination, which if finalized, would eliminate the EISA 2020 standards for the pear-shaped bulbs, known as “A-lamps”, that make up 50 percent of the bulbs used in the United States.<sup>64</sup>

Although there has been a delay in the EISA 2020 standards going into effect, the market has moved forward in an energy efficiency direction. Lighting manufacturers expected the original rules to go into effect in 2020 and 2025 and have transitioned to designing and manufacturing energy-efficient LEDs. As a result, the lighting market has transitioned despite the federal roll-back of minimum-efficiency standards. LEDs are now the standard bulbs seen on store shelves and in customers’ sockets. With a new federal administration that favors energy efficiency in place for the 2022-2024 term, the Companies will monitor proposed rulemakings and decision issued by the DOE regarding the EISA 2020 and EISA 2025 standards. If new decisions or rulemakings are issued that alter their planned approach in the upcoming term, the Companies will adjust accordingly with input from DEEP, the EEB, and EEB consultants.

For the 2022-2024 term, the Companies will transition program support to discount retailers focused on reaching historically underserved customers and retailers where baseline lighting products are still a viable option for customers. In addition, the Companies will continue to promote LED bulbs through non-traditional channels, including lighting sales and lighting fundraisers for nonprofits, community groups, and schools.

### Residential Lighting Strategy

In October 2020, a lighting study was released which measured the availability and pricing of key light bulb types across a wide range of Connecticut retailers and investigated the progression of federal standards for light bulbs.<sup>65</sup> This study was commissioned to determine the viability of continued promotion of residential lighting products in Connecticut and made several recommendations to the Companies. One recommendation was to discontinue the promotion of products at club stores (e.g., Costco, BJ’s) where the product choice landscape already favors efficient products and redirect those efforts toward retailers where baseline products are a viable option for customers. The study’s second recommendation was to review and refine the Companies’ incentive strategies for both non-discount and discount retailers. For non-discount retailers, the study recommended that the Companies should size incentives and design more targeted strategies to promote products based on pricing and availability information, while for discount retailers, the Companies should ensure

<sup>62</sup> 84 FR 46661. Office of Energy Efficiency and Renewable Energy. Energy Conservation Program: Definition for General Service Lamps, Published Sep. 5, 2019, pp. 46661-46676. Available at: <https://www.federalregister.gov/documents/2019/09/05/2019-18940/energyconservation-program-definition-for-general-service-lamps>. Specialty lamps now exempted include globes, candelabras, and reflectors, as well as three-way and rough service lamps.

<sup>63</sup> 82 FR 7276 and 82 FR 7322, Jan. 19, 2017.

<sup>64</sup> 84 FR 46830. Office of Energy Efficiency and Renewable Energy. Energy Conservation Program: Energy Conservation Standards for General Service Incandescent Lamps, Published Sep. 5, 2019, pp. 46830-46862. Available at: <https://www.federalregister.gov/documents/2019/09/05/2019-18941/energy-conservation-program-energy-conservation-standards-for-general-service-incandescent-lamps>.

<sup>65</sup> *R1963b: Short Term Residential Lighting Report*, prepared by SCS Analytics, LLC on behalf of the Connecticut EEB Evaluation Administration Team, Oct. 19, 2020.



incentives are aggressively compared to other retailers in the program. The study's recommendations and findings have shaped the Companies' lighting strategy for the 2022-2024 term. The Companies will no longer support discount promotions at club stores and will only incentivize limited numbers of LEDs sold in historically underserved communities.

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### 2.2.3 Program Design

The Retail Products program is designed to create awareness and acceptance of energy-efficient appliances, consumer electronics, and LED lighting (limited support) to help reduce electric and natural gas use year-round. The Companies offer incentives designed to encourage customers to make energy-efficient choices when purchasing appliances and consumer electronics. The program's three primary channels for the upcoming term will include: (1) upstream retail products platform, (2) upstream incentives, and (3) an online platform.

#### *ENERGY STAR Retail Products Platform*

The ENERGY STAR Retail Products Platform (ESRPP) is a collaborative marketing and upstream rebate fulfillment initiative facilitated by the EPA, ENERGY STAR, energy efficiency program sponsors (e.g., utilities), retailer partners, and other stakeholders. The initiative offers minimal direct retailer incentives to participating big-box retail stores (e.g., Best Buy, Home Depot, and Lowe's) and small independent stores to increase the stocking and sale of high-efficiency appliances. The ESRPP was launched in Connecticut during the 2019-2021 term. The Companies work directly with retailers to lower the cost of appliances and electronics before they hit retail shelves through midstream incentives.

By increasing the availability of ENERGY STAR certified products in the marketplace, the ESRPP generates energy savings as customers purchase and install these more efficient models in their homes. Through participating retailer agreements, the Companies gain access to full category sales data on program products, allowing them to truly judge market penetration of highly-efficient products. The 2022-2024 ESRPP will include incentives for dryers, washers, refrigerators, freezers, air purifiers, room air conditioners, dehumidifiers, and sound bars. The Companies will also add induction cooktops and advanced power strips to the ESRPP for the upcoming term. In-store signage highlights the savings potential of high-efficiency, ENERGY STAR certified models.

#### *Instant Discounts*

Over the next three years, the Companies plan to continue expanding the Instant Discount program to include room air conditioners, dehumidifiers, and air purifiers at big-box stores. Point-of-purchase materials at the retail outlet inform the customer of discounts and how to access those discounts.

#### *Online Marketplace.*

The Online Marketplace is a channel that allows Connecticut residents to compare products and prices of energy-efficient measures to help them with their purchasing decisions, as well as make purchases where incentives are applied instantly to qualifying products at the time of checkout. Customers can purchase ENERGY STAR certified equipment, such as smart thermostats, dehumidifiers, room air conditioners/cleaners, window air conditioners, sound bars, and advanced power strips, as well as non-incentivized energy-saving products, such as lighting and various other "smart home" devices. The platform provides validation services to verify that consumers purchasing the incentivized equipment are Connecticut residents and qualify for the incentive(s). This streamlines the incentive process for customers and subsequently, the resulting energy savings.

Similar to the ESRPP, the Online Marketplace requires that all appliances and electronics marketed in the Online Marketplace meet the requirements for an ENERGY STAR “Most Efficient” or Tier 2 product.<sup>66</sup> Currently, the Companies offer incentives for Tier 1 and Tier 2 advanced power strips through the Online Marketplace, and this will continue in the 2022-2024 term. The Online Marketplace also serves as a cross-promotional channel for active demand response programs. The Companies can actively bundle the sale of energy-efficient equipment, such as smart thermostats, with an active demand response program to encourage customer participation in additional programs.

### *Early Retirement Initiative*

A second, inefficient refrigerator or freezer could cost a customer close to \$125 per year to operate. In mid-2020, the Companies launched the Early Retirement Initiative to encourage and incent customers to retire old, inefficient refrigerators and freezers and replace them with high-efficiency units. Customers work with a third-party contractor to verify their eligibility for the initiative, arrange a convenient pick-up time for the removal of their inefficient appliance(s) from their home, and then these units are removed and recycled in an environmentally-friendly manner instead of being placed in a landfill where contamination could occur.

By unplugging these units, customers can save energy on their electric bills and earn an incentive for the appliance’s disposal. In addition, the initiative helps reduce the effect of residential customers’ energy consumption on the environment, including reducing greenhouse gas emissions and removing harmful contaminants from landfills. The Companies will monitor the success of this initiative and could potentially include additional appliances in the initiative, such as room air conditioners (room A/Cs), during the 2022-2024 term.

### *Efficiency Levels*

The Companies continue to look at multiple efficiency levels and tiers to design their incentive strategy for the Retail Products program. The EPA’s ENERGY STAR Emerging Technology Award (Emerging Tech Award) is given to innovative technologies that meet rigorous performance criteria to reduce energy consumption and lower greenhouse gas emissions, without sacrificing features or functionality. In 2021, residential induction cooking tops received the Emerging Tech Award. Traditional cooking tops employ gas or an electrical element to generate heat, which is then transferred to cookware via thermal conduction. A residential induction cooking top consists of an electromagnetic coil that creates a magnetic field when supplied with an electric current.

When evaluated in the field, the residential induction cooking tops warmed compatible cookware internally and transferred energy with about 85 percent efficiency, compared to natural gas (32 percent) and electric cooking tops (70 to 80 percent). In addition to the technology’s energy savings benefits, it also decreases cooking times. In 2021, the Companies will support this Emerging Tech Award technology through its sale and promotion through the ESRPP, as well as introduce the technology into programming and K-12 lessons implemented through the Energy Education and Community Outreach Initiatives (see Section Four of this Plan).

### *Marketing*

A mix of traditional marketing tactics will be used to promote these solutions and incentives to customers. Because the online marketplace is a digital platform, digital marketing will drive the majority of traffic. In addition to a steady stream

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<sup>66</sup> ENERGY STAR utilizes the Tier 2 (also referred to as Advanced) criteria when there is not a Most Efficient designation for a product and/or where there is a desire for a higher specification than the basic ENERGY STAR criteria.

of digital advertising, special promotions (which create a sense of urgency) receive additional support via social and email, as warranted.

## 2.3 HVAC AND WATER HEATING EQUIPMENT PROGRAM

### 2.3.1 Overview & Target Market

As noted in Section 2.1.2, residential heating, cooling, and water heating equipment make up 73 percent of an average household’s annual energy consumption.<sup>67</sup> The HVAC and Water Heating Equipment program is designed to promote the awareness, acceptance, availability, and purchase of high-efficiency HVAC and water heating equipment in Connecticut’s retail and wholesale marketplace. This broad-based platform offers incentives through two channels: (1) midstream incentives and (2) traditional mail-in rebates. These channels are designed to position high-efficiency HVAC and water heating equipment as the primary choice for customers making purchasing decisions, whether online, in-store, or through independent contractors and distributors.

The target market for the HVAC and Water Heating Equipment program includes residential electric and natural gas customers of the Companies and contractors, distributors, installers, and retailers who either sell or install HVAC and water heating equipment and systems in Connecticut. The HVAC and Water Heating Equipment program offers trainings and support to market actors to help shift the marketplace toward energy efficiency. The following figure summarizes the Companies’ projected energy savings and program costs and benefits for the HVAC and Water Heating Equipment program, including both electric, natural gas, oil, and propane values.

**Figure 2-H: 2022-2024 HVAC and Water Heating Equipment Savings & Benefits (Combined Electric & Natural Gas)\***

Planned Results	Total
Number of Units Sold (HVAC and water heating equipment)*	203,376
<i>Number of Heat Pumps Sold (included above)**</i>	27,039
Total Program Lifetime Savings, Electric (MWh)	342,877
Total Program Lifetime Savings, Natural Gas (ccf)	54,406,605
Total Program Lifetime Savings, Oil (Gal)	22,532,978
Total Program Lifetime Savings, Propane (Gal)	5,969,594
Total Program Lifetime Savings (MMBtu)	10,438,639
Lifetime CO <sub>2</sub> Emissions Reduced (tons)***	895,535
Total Program Lifetime Benefits (\$000)	\$276,108
Total Program Costs (\$000)	\$74,651
<p>*Includes heat pumps, central A/Cs, room A/Cs, water heaters, and smart thermostats.  **This number is included in the total number of units sold (HVAC and water heating equipment).  ***Please note that these are short tons.</p>	

<sup>67</sup> US EIA, *What’s New in How We Use Energy at Home: Results from EIA’s 2015 Residential Energy Consumption Survey*, rel. May 2017, available at: [https://www.eia.gov/consumption/residential/reports/2015/overview/pdf/whatsnew\\_home\\_energy\\_use.pdf](https://www.eia.gov/consumption/residential/reports/2015/overview/pdf/whatsnew_home_energy_use.pdf). The 2020 RECS household survey data collection began in September 2020 and concluded in spring 2021. The EIA plans to release initial estimates on key household characteristics in late 2021 and final state-level energy consumption and expenditure data, as well as survey microdata, will be available in early 2023.

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### 2.3.2 2022-2024 Themes & Priorities

The HVAC and Water Heating Equipment program offers customers rebates for installing high-efficiency HVAC equipment, water heating equipment, and heat pump water heater technologies. For the 2022-2024 term, the program will implement a number of decarbonization strategies, collaborate with manufacturers and distributors, promote co-delivery of the program with demand reduction strategies, and introduce new products. These new modifications to the HVAC and Water Heating Equipment program are discussed below.

#### *Decarbonization and Heat Pumps*

In the upcoming term, the Companies will prioritize transitioning customers to heat pump technologies if they are more likely to experience reduced heating costs. Customers who heat their homes with electric resistance and delivered fuels (i.e., oil and propane) will see a greater reduction in their energy bills than residential customers who heat with natural gas. The move to heat pump technologies also results in greater greenhouse gas emissions reductions, another realized benefit. For the 2022-2024 term, the Companies will focus on promoting the installation of more heat pump technologies including air source heat pumps, central and ductless heat pumps, ground source heat pumps, air-to-water heat pumps, and packaged and split heat pump water heater systems.

Over the next three years, the Companies will make extensive investments in consumer education and workforce development trainings and certifications to build general awareness and familiarity around heat pumps. The Companies plan to conduct ongoing “pulse” surveys to better understand and track customer awareness and perceptions of heat pump technologies. In the upcoming term, the Companies will focus on prioritizing marketing tactics that promote the benefits of heat pump technologies and simplifying customer-facing messaging and terminology. The Companies will also refresh the EnergizeCT.com website and create an “All Things Heat Pumps” webpage. Additionally, the Companies will develop customer-facing online tools, such as a contractor locator to direct customers to qualified heat pump installers. These online tools will help educate customers regarding the benefits of heat pumps, current incentives, and also help interested homeowners in locating qualified contractors.

The Companies will also identify and support qualified heat pump installers to ensure that home performance and HVAC contractors are promoting heat pump technology adoption where appropriate.

The 2021 heat pump pilot will be extended into the beginning of the upcoming three-year term to ensure that all units are installed. The Companies are studying the effectiveness of the heat pump pilot, both to understand energy savings during the heating and cooling seasons and customer satisfaction. The EEB’s third-party evaluator is aware of this effort and may conduct additional evaluations needed to assess the results of the pilot. This decision will also be based on DEEP’s directives for the 2021 Comprehensive Energy Strategy.

#### *Collaboration with Manufacturers & Distributors*

In the 2022-2024 term, the Companies will work with manufacturers and distributors to leverage their education and training efforts to support the purchase and installation of more high-efficiency HVAC and water heating equipment across the state. Many of the larger heat pump manufacturers have robust contractor networks that are based on contractor experience and their completion of manufacturer-led trainings. For the 2022-2024 term, the Companies have a two-fold approach to collaborating with heat pump manufacturers:

- Work with manufacturer partners to identify contractors (in Connecticut and New England) who have successfully completed heat pump installation trainings and engage these firms through program support, and
- Encourage untrained contractors to attend and complete manufacturer-led heat pump trainings to broaden the base of qualified installers.

This work already began in the 2019-2021 term through the development of the Air Source Heat Pump Working Group. This group includes regional manufacturer representatives from major heat pump manufacturing companies.

### Contractor Education & Training

Throughout the 2020 program year, the Companies developed a comprehensive heat pump training strategy for Connecticut and the Northeast region. To drive adoption from the supply chain to the contractor to the end user, a defined Qualified Products List (QPL) for air source heat pumps was developed and announced to the market in early November 2020. This regional QPL was established to standardize the efficiency and qualifying criteria for heat pump technologies installed in multiple states throughout the Northeast region. The establishment of the QPL was a necessary first step to ensure qualifying product inventory is available to the contractors within the local supply chain and prior to launching the expanded trainings across the region. This also ensures that trainings will reflect the new QPL that will be used going forward.

During the 2022-2024 term, the Companies will continue to implement the comprehensive heat pump training strategy to ensure that HVAC contractors working in Connecticut know how to sell, install, and service heat pump systems. The Companies' strategy to increase awareness, educate, and ensure proper installation is to reach contractors utilizing various channels and paths. The two main pathways identified are:

### Online Learning Resources

The Companies have developed an online Learning Center to educate the contractor community about HVAC and heat pump technologies. The online training resource allows contractors to take classes and educate themselves based on their interests, schedule, and availability. The feedback from the HVAC and home performance services community has been positive and the Learning Center is recognized as a resource that is and will be used. Some current courses include:

- *Air Conditioner and Heat Pump High-Performance Tune-Up*. This course provides technical training to help residential and commercial diagnostic tune-ups meet specifications. The tune-up process focuses on non-capacity verification.
- *HVAC Equipment Energy Usage: Charge Levels Refrigerant Leaks*. This training details the topics of subcooling, superheat, and system design considerations according to Manual J using an interactive HVAC simulation to effectively illustrate these points.
- *HVAC Equipment Energy Usage: Obstructed Air Flow-Condenser or Filter*. This course provides an analysis of both indoor and outdoor airflow, associated tool usage, and a general discussion related to SEER using an interactive HVAC simulation to highlight these points.
- *measureQuick Start to Finish*. This course trains participants on how to use measureQuick to calculate the airflow, measure total/sensible/latent capacity, and determine the efficiency of heat pumps.

- *Measuring Air Distribution.* This training explains airflow, how HVAC systems are designed and configured to deliver the correct amount of air to each room of a building, how to accurately measure airflow, and how to address common air distribution problems.

### Collaborative Channel Partnership Trainings

The Companies have long acknowledged how critical it is to leverage the capabilities and resources of manufacturers. The heat pump industry has many global manufacturers with substantial resources and who often design and conduct their own trainings and certifications. The Companies have internal teams who collaborate closely with these global partners, which allow for a stronger go-to-market strategy by benefitting the supply chain's resources. This partnership strategy leverages knowledgeable experts and builds upon existing resources rather than starting from a blank slate.

For the 2022-2024 term, the Companies plan to collaborate with existing channel partner trainings and modify them, as needed, into joint efforts hosted by both the manufacturer and the Companies. This ensures that subject matter experts and direct utility resources can be accessed by HVAC contractors during training sessions. The collaborative trainings will be held on a quarterly basis and will be complementary to the ongoing manufacturer-hosted trainings held throughout the year. As industry trainings tend to be best suited for large HVAC contractors, the Companies recognize the need for trainings to reach both large and small HVAC contractors. The Companies' training efforts will ensure that HVAC contractors not presently engaged by industry partner efforts are able to access heat pump training through online resources and partnerships within the supply chain, such as the local distribution arm of an HVAC equipment distributor.

### Customer Education

The Companies' two primary goals for consumer education are:

- Awareness of heat pumps as a heating and cooling option, and
- Confidence in heat pump technology performance.

The Companies plan to leverage industry efforts, working with manufacturers' to co-brand manufacturer-created educational materials, when warranted. For the 2022-2024 term, the Companies will continue to develop and enhance customer-facing materials regarding the basics and benefits of heat pump technologies. This includes educational content integrated into the HES and HES-Income Eligible programs leave-behind package for customers. In addition, the Energize CT website's heat pump page is being enhanced to clearly communicate how heat pump technology works, the benefits of heat pumps, how a heat pump may change energy usage, and the incentives available. The site will include engaging animation that depicts how the technology works. The Companies have previously used animated graphics to create engaging experiences for consumers and stakeholders.<sup>68</sup>

### Integration with Active Demand Response Offerings

Over the long term, the Companies' active demand response offerings provide a number of benefits to customers and the grid, including improving the reliability of the grid and reducing customer costs due to reduced peak demand. In addition,

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<sup>68</sup> The Companies used animated graphics for the Energy Education Program (see Section Four of this Plan) and the Annual Legislative Report.

the active demand response offerings provide significant environmental benefits by reducing energy usage which offsets the need for fossil-fueled power plants and results in greenhouse gas emissions reductions.

For the last two three-year Plan terms, the Companies have implemented active demand response offerings that reduce peak demand and help save customers money. Historically, these offerings have been implemented independently, separate from the Residential Portfolio's other programs and initiatives. For the 2022-2024 term, the Companies will integrate both energy efficiency and demand reduction technologies and programs to deliver comprehensive holistic energy-saving solutions. The Companies will use energy efficiency program delivery channels and measures to generate customer enrollment for active demand response offerings, such as HVAC controls, smart thermostats, electric vehicle chargers, and battery storage. The Companies will cross-promote the sale of high-efficiency HVAC and water heating equipment and controls with active demand response offerings to advertise these initiatives with the sale of smart thermostats, plug load control devices, and other smart, connected technologies.

For the upcoming Plan term, the Companies will continue to support connected smart thermostats that are ENERGY STAR certified and capable of providing real-time response to demand response events or have data sharing capabilities. Additionally, home performance services technicians (HES and HES-Income Eligible) will be trained in how to actively promote and upsell Active Demand Response offerings at the Kitchen Table Wrap-Up. In the case of income-eligible customers, the Companies will encourage customers to sign-up for active demand response offerings at the time that demand reduction technologies are installed (e.g., smart thermostats).

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### 2.3.3 Program Design

#### *Types of Incentives*

The HVAC and Water Heating Equipment program provides a broad-based platform to promote high-efficiency heating, cooling, and water heating equipment to customers. The HVAC and Water Heating Equipment program offers incentives through two channels: (1) midstream incentives and (2) traditional mail-in rebates.

#### Midstream Incentives

For the 2022-2024 term, the Companies will continue to promote midstream incentives for HVAC and water heating equipment as their primary channel. The use of midstream incentives encourages distributors to stock and sell high-efficiency HVAC and water heating equipment and in turn, increases the number of units sold and installed. As part of the midstream incentive process (market channel), the Companies typically require contractors, distributors, and installers to release customer demographic information (i.e., customer address and installed equipment model number) when they apply for a midstream incentive for an eligible HVAC and/or natural gas water heater purchase. This gives the Companies valuable insight into customer demand and installation rates of various HVAC and water heating equipment. If a retail establishment cannot provide the required customer demographic data, the Companies will provide a smaller midstream incentive.

#### Traditional Incentives

The Companies continue to offer traditional incentives for some HVAC systems. These systems include high-efficiency central air conditioning (central A/C), air source heat pumps, and ground source heat pumps. As the opportunity arises and verification of installation and proper equipment sizing is streamlined, the Companies will evaluate offering these incentives through the midstream channel during the 2022-2024 term.

### Energy Efficiency Specifications

To receive a midstream or traditional incentive, the Companies require that central A/C systems and heat pumps must meet nationally-recognized energy efficiency specifications. These specifications help rate the efficiency and performance of the central A/C or heat pump system and include:

- **Energy Efficiency Ratio (EER).** An EER rating measures how efficient a central A/C or heat pump system will operate when the outdoor temperature is at a specific level (95°F). The higher the EER, the more efficient the system.
- **Heating Seasonal Performance Factor (HSPF).** The HSPF measures the efficiency of a heat pump. The HSPF shows the total heating output of the heat pump during a normal heating season, in British Thermal Units (BTUs), as compared to the total electricity consumed (in kWh) during the same period. The higher the HSPF, the more efficient the heat pump.
- **Seasonal Energy Efficiency Ratio (SEER).** A SEER rating measures the efficiency of a central A/C or heat pump system over an entire cooling season. The SEER rating indicates the cooling output of a central A/C or heat pump system in BTUs during the normal cooling season as compared to the total electricity consumed (in kWh) during the same period. The higher the SEER rating, the more efficient the central A/C or heat pump system.
- **Coefficient of Performance (COP).** The COP is the ratio of heat output to the amount of energy input for a heat pump.
- **Heating Capacity Ratio.** The heating capacity of a heat pump is equal to the rate at which heat is rejected by the condenser (which is equal to the rate of heat absorbed in the evaporator plus the power required by the compressor). The capacity of a heat pump is rated in BTUs.<sup>69</sup> For the HVAC and Water Heating Equipment program, the Heating Capacity Ratio requirement is the minimum equipment performance for heating capacity at 17°F, divided by the heating capacity at 47°F, expressed as a percentage. In 2022, the ENERGY STAR specification for heat pumps will be introduced to the market (requiring minimum equipment performance for heating capacity at 5°F). The Companies will work to prepare the market for this specification change.

### Incentivized Measures

#### Heat Pumps

Heat pump technologies offer an energy-efficient alternative to air conditioners (central or room) and furnaces. Similar to refrigerators, heat pumps use electricity to move heat inside and outside of the home, dependent upon the season. Since these systems move heat rather than generate heat, heat pump technologies can provide equivalent space conditioning to traditional heating and cooling systems and still use less energy. Qualifying heat pump technologies include air source heat pumps, ground source heat pumps, water source heat pumps, ductless heat pumps, and heat pump water heaters (*discussed in water heating equipment section*).

Air source heat pump technologies transfer heat between a home and the outside air. When properly installed, an air source heat pump can deliver one-and-a-half to three times more heat energy to a home than the electrical energy the

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<sup>69</sup> There are 12,000 BTUs per ton. Therefore, if you have a 2 ton heat pump, it has the capacity to produce 24,000 BTUs of heating or cooling.



equipment consumes.<sup>70</sup> In addition to reducing energy consumption, air source heat pumps also serve as more efficient dehumidifiers than standard central A/Cs, resulting in lower energy bills and improved comfort for the customer. Ductless heat pumps are air source heat pumps that can be used in residential applications where there are no ducts or ductwork.

Ground source heat pumps take advantage of relatively constant ground and water temperatures to efficiently transfer heat between a home and the ground or water source. These technologies use only a small amount of electricity to operate the unit's heat pump, ground loop pump, and distribution fan/pump. The Companies provide traditional incentives for the proper installation of ENERGY STAR certified ground source heat pumps that are closed loop or direct geo-exchange systems. Ground source heat pump systems must meet the following strict criteria to be eligible for the incentive: (1) equipment must be closed loop or direct geo-exchange type, (2) equipment must be ENERGY STAR certified (existing homes must meet ENERGY STAR Tier 3 Requirements), (3) AHRI/ISO/ASHRAE Standard 13256-1 closed loop systems, (4) Appropriate field testing must be conducted to verify performance, and (5) new construction homes must participate in the Residential New Construction program to be eligible for the ground source heat pump incentive.

During the 2022-2024 term, the Companies will continue to monitor the marketplace for new efficiency requirements. The Companies will also work with the International Ground Source Heat Pump Association to support trainings for the ground source heat pump industry. In the upcoming term, the Companies will offer incentives for air-to-water heat pumps based on a performance and criteria standpoint. The Companies plan to align their efficiency requirements with those established by the Massachusetts Program Administrators to provide regional consistency for the market.

#### Heat Pump Integrated Controls

Heat pumps are high-efficiency technologies that save energy and money when used properly. Integrated controls makes it simpler to operate heat pumps when they are working with other HVAC systems to optimize heating and cooling in a customer's home. In the 2022-2024 term, the Companies will continue to support heat pump integrated controls to the HVAC and Water Heating Equipment program. Integrated controls provide a number of benefits, including allowing for the seamless transition between multiple HVAC systems, maximizing heat pump runtime, using outdoor air temperatures as triggers, removing customer interactions and decisions, and encouraging whole home and zone displacement. The introduction of heat pump integrated controls will ensure that customers can be confident that their installed heat pump technologies are operating effectively and efficiently.

#### Natural Gas High-Efficiency Furnace, Boiler, and Boiler Water Circulator Pumps

The efficiency of a furnace or boiler is measured by its annual fuel utilization efficiency (AFUE) which measures the percentage of heating fuel (i.e., natural gas, oil, or propane) converted to useful heat for a home. During the 2022-2024 term, the Companies will continue to offer midstream incentives for the purchase of energy-efficient boilers and furnaces that meet efficiency standards set by the American Heating & Refrigeration Institute (AHRI), an industry-respected certification program. In the 2022-2024 term, the Companies will investigate whether program supported condensing equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. The Companies have established the following AFUE and AHRI requirements for natural gas furnaces, boilers, and boiler water circulator pumps (see figure below).<sup>71</sup>

<sup>70</sup> DOE, Air Source Heat Pumps, available online at: <https://www.energy.gov/energysaver/heat-and-cool/heat-pump-systems/air-source-heat-pumps>.

<sup>71</sup> Companies will require qualified condensing installations.

**Figure 2-I High-Efficiency Furnace, Natural Gas Boiler & Boiler Water Circulator Pump Requirements\***

Type of System	Energy Efficiency Requirements
Natural Gas Warm Air Furnace	ENERGY STAR certified 95% AFUE or greater, and AHRI-rated with electronically commutated motors
Natural Gas Boiler	ENERGY STAR certified 94% AFUE or greater with temperature reset or purge control
Boiler Water Circulator Pump	The Companies maintain a list of approved model numbers

*\*These are 2021 Energize Connecticut requirements which are subject to change. The Companies reserve the right to make periodic updates, as needed, through the 2022-2024 term.*

### Central Ducted Systems and Central Air Conditioning Heat Pumps

The Companies will continue to provide traditional incentives for split HVAC systems where both the condenser unit and evaporator coils are installed simultaneously by a contractor. A Split HVAC system has multiple sections, including: (1) an indoor coil section typically located within the ductwork, and (2) an outdoor coil section that contains the compressor or condenser.

During the 2022-2024 term, the Companies will encourage contractors to replace central air conditioning (ducted) units with central heat pumps by strengthening their existing channel and industry relationships and establishing a formalized contractor network for central heat pump installers. In addition, the Companies may offer larger incentives for the installation of central heat pumps.

**Figure 2-J: High-Efficiency Central A/C and Heat Pump Requirements\***

Type of System	Energy Efficiency Requirements
AHRI Rated Central Air Conditioning Split System	16 SEER / 12.5 EER ENERGY STAR and AHRI Certified
AHRI Rated Central Ducted Air Source Heat Pump Split System	16 SEER / 9.5 HSPF / 60% Heating Capacity Ratio (47° - 17°)

*\*These are 2021 Energize Connecticut requirements which are subject to change. The Companies reserve the right to make periodic updates, as needed, through the 2022-2024 term.*

### Domestic Hot Water Equipment

For the 2022-2024 term, the Companies will continue to offer incentives for high-efficiency natural gas domestic water heaters and heat pump water heaters.

### Heat Pump Water Heaters

Heat pump water heaters are more efficient than traditional electric water heaters as they concentrate the warmth of ambient air around them to heat water for domestic hot water consumption. While a heat pump removes air from the surrounding ambient air, there is a slight cooling effect that results in dehumidification and cooling. On average, heat

pump water heaters have 50 to 75 percent savings on electric water-heating costs and also have programmable options, such as “vacation modes” that allow homeowners to save energy while ensuring that there is hot water when they return.

As of June 12, 2017, manufacturers must adhere to the DOE’s new Uniform Energy Factor (UEF) standard and test procedure for water heaters. The new UEF standard addresses inconsistencies in water heater testing and allows for a more accurate comparison of products. New products coming onto the market now have an UEF rating instead of an Energy Factor (EF) rating.

In the upcoming term, the Companies will establish heat pump water heater standards and explore the potential to co-deliver demand reduction strategies with this technology. The Companies are currently in discussions with the Massachusetts Program Administrators regarding introducing solar thermal incentives in the 2022-2024 term.

#### High-Efficiency Natural Gas Water Heaters

The Companies will continue to offer upstream incentives for two types of ENERGY STAR certified natural gas water heaters during the 2022-2024 term. Periodic adjustments may be made to the qualifying criteria and incentive levels based on energy efficiency standard changes and/or budget levels for the Residential Portfolio. In 2021, the two types of high-efficiency natural gas water heaters eligible for incentives are:

- ENERGY STAR certified tankless water heaters with electric ignitions are currently eligible for incentives if they have a UEF of 0.92 or greater.
- ENERGY STAR certified natural gas condensing storage water heaters must have a Thermal Efficiency (TE) of 0.95 or greater.<sup>72</sup>

As noted above, the Companies will monitor the market closely to establish an appropriate UEF rating criteria for new products.

#### Clean Heating & Cooling Calculator

In 2020, the Clean Energy States Alliance (CESA) collaborated with state agencies in Connecticut (DEEP), Massachusetts, and New Hampshire to develop a Clean Heating and Cooling Calculator (Calculator) for homeowners trying to decide what heating and cooling system is right for them. The three states worked collaboratively to create regional methodology, assumptions, and calculations for estimating cost and emissions savings. In 2021, Rhode Island released a similar calculator that uses the same methodology.

The Calculator estimates the cost savings and greenhouse gas emissions savings from replacing all or a portion of a home’s heat from fuel oil, natural gas, propane, or electric baseboard to a clean heating and cooling technology, such as air source heat pumps (ducted and ductless), ground source heat pumps (geothermal), solar hot water, and heat pump water heaters. The tool’s calculations reflect available statewide incentives, as well as the difference between the current annual fuel baseline costs and the energy costs of the clean heating and cooling technology. The tool also calculates simple payback times and net installation costs. The savings are displayed as a dollar amount and as a percent. The estimated annual emissions savings show the difference between the current heating and cooling system’s greenhouse

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<sup>72</sup> Both measures reflect 2021 Energize Connecticut requirements which are subject to change. The Companies reserve the right to make periodic updates as needed throughout the 2022-2024 term.

gas emissions and those associated with the applicable clean heating and cooling technology. The emissions savings are depicted as vehicle miles avoided. For the 2022-2024 term, the Companies will promote the link to the Connecticut Calculator to help educate customers on the economics of installing clean heating and cooling technologies.<sup>73</sup>

### *Marketing*

Traditional marketing tactics will be enhanced by targeted marketing, made possible by the audience segmentation work done by the Companies, so that customers receive advertisements and materials most applicable to them. Cross promotion of the HES program to assist customers in making HVAC equipment purchasing decisions is incorporated, as applicable.

## **2.4 RESIDENTIAL NEW CONSTRUCTION**

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The Residential New Construction program is Connecticut’s energy efficiency solution for residential single-family and multifamily new construction homes. The program is designed to implement and promote an enhanced level of energy efficiency in new construction throughout Connecticut, by increasing builder and consumer awareness and understanding of the benefits of energy-efficient building practices. The program’s offerings drive the new construction market in Connecticut toward more energy-efficient and sustainable construction practices, causing homes to meet a standard that is above and beyond the required energy code in Connecticut.

### **2.4.1 Objectives & Target Market**

#### *Objectives*

The Residential New Construction program has two primary objectives: (1) reduce energy consumption and peak demand in residential new construction and major renovation and addition projects, and (2) create a clear path toward more efficient homes, including zero energy and passive house homes. Secondary objectives for the program include the integration of energy efficiency with demand reduction strategies, increased awareness and technical education regarding energy-efficient practices, making homes “ready” to support clean energy technologies and electric vehicles, and preparing residential new construction market actors for the adoption of the IECC 2021.

The program combines educational outreach, technical trainings, and financial incentives to encourage builders and homeowners to integrate advanced energy-efficient building construction, techniques, and technologies into their new construction or major renovations and addition project. These efforts are intended to drive the new construction market in Connecticut toward more efficient construction practices, causing new homes to meet a standard that is above and beyond the required state energy code. The figure below summarizes the Companies’ projected energy savings, program costs and benefits for the Residential New Construction program, including electric, natural gas, and propane values.

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<sup>73</sup> CESA Clean Heating & Cooling Calculator, available online at: <https://www.cesa.org/projects/building-decarbonization-and-clean-heating-cooling/chc-calculator/connecticut/>.

**Figure 2-K: 2022-2024 Residential New Construction Savings & Benefits (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Homes	5,861
Total Program Lifetime Savings, Electric (MWh)	200,608
Total Program Lifetime Savings, Natural Gas (ccf)	32,406,886
Total Program Lifetime Savings, Propane (Gal)	2,304,309
Total Program Lifetime Savings (MMBtu)	4,229,594
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	335,661
Total Program Lifetime Benefits (\$000)	\$88,431
Total Program Costs (\$000)	\$19,171

*\*Please note that these are short tons.*

### Target Market and Eligibility

The target market for the Residential New Construction program are residential single-family and multifamily property owners who are building a new home, making a significant building renovation or addition, or conducting a gut rehab project (i.e., down to the studs) where the residential building will receive electric and/or natural gas services from the Companies. Eligible multifamily developments include two and three-family town homes, apartments, condominiums, and high-rises for both the market rate and low-income markets. The program also targets the residential new construction community to educate, train, and engage market actors, including architects, builders, code officials, contractors, designers, developers, engineers, estimators, financing agencies, general contractors, municipal officials, raters, tradespeople, and verifiers.

While customers who heat their homes or water with a delivery fuel (e.g., oil, propane) are eligible, their home must receive electric service from one of the Electric Companies. The incentives for fossil fuel-heated homes are lower than those for electric or natural gas-heated homes. For single-family and low-rise multifamily projects, the building must have either an established residential electric or natural gas account with the Companies. Additionally, the property must be classified as a single-family or multifamily property (four stories or less) and must be built within the state of Connecticut. Buildings more than four stories may classify under the Multifamily Whole Building Performance Initiative (see Section 2.6).

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### 2.4.2 Themes & Priorities

#### Passive House

For the 2022-2024 term, the Companies will continue to provide enhanced incentives for builders who build multifamily buildings to Passive House design principles. In addition, they will continue to provide support to the Passive House movement by maintaining their existing strategic trade ally partnership with the CT Passive House Alliance, and to actively support technical trainings regarding Passive House design principles. The Companies will leverage their partnership with the CT Passive House Alliance, to deliver comprehensive Passive House trainings to the residential new construction community.

The objective of the training is to support workforce development and help transform the energy efficiency and building construction industries. The Passive House training stems from the principles instilled within Passive House Institute (PHI) and Passive House Institute US (PHIUS). This will continue to be offered through three separate channels, which include: (1) lunch and learns, (2) building science workshops, and (3) Passive House accreditations.

### *Code Compliance*

As referenced in Section 2.1.4, the Companies will support code compliance in the upcoming term and will be proactive in their training and outreach in advance of the State’s adoption of the IECC 2021 in October 2022. The Companies will support code compliance by providing: (1) stretch code development support and (2) compliance support for base and stretch code. If the Connecticut General Assembly approves stretch code legislation during the 2022-2024 term, the Companies will provide support for municipalities who choose to adopt a stretch code throughout the upcoming term. This support will come through education and training for municipal officials and staff to assist them in developing and implementing a stretch code for their town or city.

In the 2022-2024 term, the Companies will collaborate with architects, local builders, contractors, and building enforcement officials to increase the number of residential buildings complying with the local energy code. The Companies’ efforts to support this increase will come through a code training series, as well as outreach and technical support, such as circuit riders, review support, and the development of a compliance documentation tool. The Companies will also promote new appliance standards as technologies with advanced levels of efficiency come to market. The Companies will promote and support the introduction of advanced power strips and induction cook tops through the ENERGY STAR Retail Products Platform (see Section 2.2).

### *Equity and Affordable Housing*

One-quarter (24 percent) of all US households have high energy burdens, and struggle to pay their energy bills and to sustain adequate heating and cooling in their home.<sup>74</sup> Low-income households experience higher energy burdens and their utility costs per square foot are often high due to poor maintenance and construction of rental buildings. For the 2022-2024 term, the Companies will look to increase the number of affordable housing projects that participate in the Residential New Construction program.

For multifamily buildings, the Companies will support equity and affordable housing through the Residential New Construction program’s Whole Building Performance Initiative. The Whole Building Performance Initiative was designed by the Companies to address new construction multifamily projects of four stories or higher and to incentivize building owners who choose to invest in certified sustainable building practices, such as Leadership in Energy Efficient Design or ENERGY STAR Multifamily High Rise. The Companies will support high-efficiency affordable housing projects in the upcoming term through increased design guidance, outreach, and WBP incentives.

In addition to increased outreach and support for multifamily buildings, the Companies will also support single-family affordable housing projects to increase the efficiency of the building envelope, space conditioning, ventilation, lighting, water heating, and appliances. These energy savings directly impact the tenants who see better affordability with their lower energy bills.

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<sup>74</sup> ACEEE Report, *Understanding Energy Affordability: How Energy Efficiency Can Alleviate High Energy Burdens*, analyzing data from the US Census Bureau’s *American Housing Survey*, available online at: <https://www.aceee.org/sites/default/files/energy-affordability.pdf>.

In 2019, the Hartford Habitat for Humanity partnered with Eversource, the CT Green Bank, and other companies to construct the organization's first Zero Energy Home in South Hartford. The 1,200 square foot, three-bedroom home features a heat pump water heater, ENERGY STAR certified appliances, low-flow water fixtures, air tight construction, and solar photovoltaics. The home achieved a HERS index of -15 and is at least 40 to 50 percent more energy efficient than a typical new home. In October 2020, the Hartford Habitat for Humanity was selected as the Affordable Housing-Single-Family Detached category Grand Prize Winner in the DOE's 2020 Housing Innovation Award Competition. For the 2022-2024 term, the Companies will continue to work with Habitat for Humanity and other groups to develop and build affordable housing projects that are as energy efficient as possible.

### *Decarbonization*

The Companies' third priority for the 2022-2024 term is decarbonization. The Residential New Construction program will heavily promote sustainable building practices, such as Zero Energy Homes and Passive House, as well as low-carbon heating and cooling technologies. This outreach will be conducted through contractor education and training to ensure the residential new construction market is ready to meet the increased energy efficiency standards set forth in the IECC 2021. For the 2022-2024 term, the Companies will offer additional incentives to builders and developers who install all-electric heating equipment instead of propane, such as heat pumps and heat pump water heaters. In addition, the Companies will work to increase the number of new construction projects that meet make-ready requirements for demand reduction strategies, clean energy technologies, and electric vehicles. This ensures that new construction homes are built to meet the demands of energy efficiency and demand reduction technologies in both the short and long term.

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## 2.4.3 Program Design

### *Home Energy Rating System Pathway*

The Residential New Construction program operates under a performance-based incentive structure. This incentive structure is based on the Home Energy Rating System (HERS) Index where a HERS rating assigns a numerical rating to a newly-constructed home's energy efficiency performance.<sup>75</sup> Qualified HERS Raters perform on-site inspections and use REM/Rate or Ekotrope software to determine a home's HERS rating. This software uses a code home, or "Reference Home" as the baseline HERS index (usually has a score of 100) and compares it to the participating home to determine its score. The lower a HERS rating, the more efficient a home (e.g., a zero net energy would have a HERS Index of 0).

Every point on the scale less than 100 corresponds to a 1 percent improvement in energy efficiency. The HERS Index views a residential building's energy use holistically, focusing on how the building's systems (e.g., mechanical, cooling and heating, building envelope) compare relative to homes built to current building code. This requires all residential new construction market actors to treat projects comprehensively and to not only ensure that building systems are efficient, but that they also increase the overall energy performance of the home.

The HERS Index serves as the foundation of all single-family and low-rise multifamily building projects and will help the Companies determine incentives for the upcoming term. For the 2022-2024 term, the Companies will offer a three-tiered incentive structure (see figure below) based on the HERS Index to encourage whole energy home performance and will

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<sup>75</sup> In the United States, the Residential Energy Services Network (RESNET) is responsible for the creation and maintenance of the RESNET Mortgage Industry National Home Energy Rating Standards, as well as certification and quality assurance on RESNET Provider organizations.

incentivize builders to plan for demand reduction technologies, clean energy technologies, and electric vehicle-ready homes into high-performance new construction projects.

**Figure 2-L: Residential New Construction HERS Index Incentives**

Tier	HERS Rating
Tier 1	51 to 60 HERS
Tier 2	41 to 50 HERS
Tier 3	40 HERS Index and lower

The 2022-2024 incentive structure is designed to push the construction market toward greater efficiency and to prepare the construction market for IECC 2021. Once the new energy code is adopted in October 2022, the incentive structure may change as the “Reference Home” must meet the new baseline criteria. An advantage of the HERS-based incentive structure is that it allows a builder and/or homeowner to work directly with a RESNET-accredited HERS Rater to ensure that high-performance and sustainable building methods, equipment and materials are used throughout the construction process. In addition, the HERS Rater can also perform duct and building envelop testing to confirm the building’s code compliance.

#### *High-Performance Certifications and Incentives*

For builders and homeowners who want to build to higher standards than the HERS Rating pathway, the Residential New Construction program offers five additional “bonus” tracks, including: Passive House, ENERGY STAR Homes, Leadership in Energy and Environmental Design (LEED) for Homes, National Green Building Standard™ (NGBS), and DOE Zero Energy Ready Home. For the 2022-2024 term, the Companies are investigating adding appliance savings to the bonus incentives.

- **Passive House.** Homes built to Passive House standards rely on passive solar features combined with energy efficiency measures to dramatically reduce space heating demands. A certified Passive House is a well-insulated and near airtight building primarily heated by passive solar and internal heat gains from the occupants and buildings uses, such as bathing, cooking, and electrical equipment. Passive Houses uses window orientation, shading, and passive ventilation to limited space cooling energy demand and maintain its efficiency in warmer weather.
- **ENERGY STAR Homes (Version 3.1).** Similar to other consumer products, new construction home projects can earn the ENERGY STAR for meeting strict energy efficiency requirements. An ENERGY STAR Home must have a complete package of building science-based energy efficiency systems and measures installed that are third party verified by a Home Energy Rater. These measures include high-efficiency HVAC and DHW equipment, high-performance windows and doors, quality installed high-performance insulation, comprehensive air sealing, and energy-efficient lighting and controls.
- **LEED for Homes.** LEED for Homes is a voluntary rating system that promotes the design and construction of high-performance green homes. A LEED-certified home reduces energy and water consumption, lowers utility bills, and provides clean indoor air for homeowners.



- **National Green Building Standard.** NGBS Green certification provides independent, third-party verification that a home is designed and built to achieve high performance in six key areas: site design, resource efficiency, water efficiency, energy efficiency, indoor environmental quality, and building operation and maintenance.
- **DOE Zero Energy Ready Home.** This program builds upon the comprehensive building science ENERGY STAR for Homes Version 3, as well as Building American innovations and best practices. A typical DOE Zero Energy Ready Homes receives a low- to mid-50s HERS Rating and is at least 40 to 50 percent more energy efficient than a typical home.

### Major Renovations & Additions

For the 2019-2021 term, the Companies established an Additions, Renovations & Retrofit pilot for the Residential New Construction program. To participate in the pilot, the Companies required that over 50 percent of the home's square footage had to be modified to qualify. The pilot's purpose was to create an energy efficiency offering that served customers who were partially renovating their home or building an addition to their existing single-family home (1-to-4 units). In launching this pilot, the Companies quickly learned that deep energy retrofits cannot be treated with a formulaic one-size-fits-all approach and that the HES program should manage small-scale renovation projects of less than 500 square feet. In July 2021, a third-party evaluation identified the potential for energy savings in the major renovations and additions project market in Connecticut.<sup>76</sup>

For the upcoming term, the Companies will offer a Major Renovations & Additions pathway as part of the Residential New Construction program. The Companies will offer this pathway for two types of home improvement projects:

- **Renovations.** Defined as a major home remodeling or improvement project that does not add to the conditioned square footage of a home.
- **Additions.** Defined as a home remodeling or improvement project that expands the conditioned square footage of a home. This includes projects where an exterior wall is taken down to expand a room, finishing and conditioning a previously unfinished basement or bonus room, or adding a new story to a home.

The Companies will require that major renovation and addition projects must be greater than five hundred square feet to qualify and that participants must use an accredited RESNET-certified HERS Rater approved by the Companies for work in Connecticut. During the 2022-2024 term, the Companies will integrate small-scale renovation and addition projects (less than 500 sq. ft.) into the HES program. In addition, the Companies will develop customer education guides regarding types of minor renovations and additions projects. These guides will be made available online.

### Multifamily Whole Building Performance Initiative

The Multifamily Whole Building Performance Initiative pathway was designed by the Companies to address new construction projects in multifamily buildings with more than 20 percent commercial or common space, and to encourage building owners to invest in certified sustainable building practices, such as LEED or ENERGY STAR Multifamily High Rise, and non-certified high-performance buildings that consume less energy than code-compliant buildings. These buildings are typically comprised of energy efficiency measures, such as energy-efficient controls and systems and high-

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<sup>76</sup> NMR Group, Inc., *Draft R1959 Single-Family Renovation and Addition Potential Analysis*, Jul. 9, 2021. The draft study notes that seven percent of single-family homes undergo a major renovation or addition each year.

performance materials, which reduce operations and maintenance costs over a building’s lifecycle. The Companies offer six types of incentives to encourage participation in the WBP Initiative:

- **Bonus for LEED or ENERGY STAR Multifamily High Rise-certified buildings.** The Whole Building Performance pathway awards a bonus incentive for buildings that obtain Silver, Gold, or Platinum LEED, Passive House, Green Globes, or ENERGY STAR Multifamily High-Rise certification of the building.
- **Whole Building Performance installation incentives.** A property owner will receive an incentive if they invest in a high-performance building that complies with the Initiative’s energy modeling guidelines.
- **Building energy simulation subsidies.** A design firm (i.e., Simulator) can receive engineering subsidies for submitting Phase 1 (pre-construction) and Phase 2 (post-construction) building energy simulation reports.
- **Path to Net Zero Ready incentive.** An incentive is given for Whole Building Performance Initiative projects that achieve Net Zero Ready certification. These projects must achieve savings of 35 percent or greater than ASHRAE 90.1-2013 prior to renewable technologies.
- **Commissioning incentive.** An incentive will be awarded for all projects which meet the requirements of the LEED enhanced commissioning credit (available to projects pursuing or not pursuing LEED certification).
- **Design incentives for as-built source energy reductions.** The design firm can receive an incentive if the as-built performance of the building design (detailed in the Phase 2 simulation report) shows a reduction of 25 percent or greater from baseline in source energy savings.

### [CT Zero Net Energy Challenge](#)

For over a decade, the Companies have held the annual Connecticut Zero Net Energy Challenge, a design-and-build competition. The objective of the Zero Net Energy Challenge is to generate awareness for and highlight high-performance zero net energy and “near zero energy” homes built in the state. Challenge participants demonstrate to the building community that zero net energy home construction is achievable and display leading-edge technologies, building practices, and building designs. All participating homes are judged based on the project’s cost effectiveness, building envelope performance, and RESNET rating standards, which are used to determine each home’s HERS index, both with and without renewable energy.

Common measures include insulated concrete forms, structural insulated panels, ground source heat pumps, and photovoltaic systems or solar energy systems. Each home receives program incentives for building with advanced technologies. Winning homes may be awarded prizes up to \$5,000 depending on the building’s final HERS rating, affordability of construction, and net operating costs.

The Companies will continue to hold an annual ZEC and recognize top performers in the 2022-2024 term. The Zero Net Energy Challenge is a proven valuable marketing and education channel for the Companies to highlight the affordability and benefits realized from zero energy home construction. Approximately ninety homes have been built throughout the state that have participated in the challenge since its launch in 2010.

Previous projects provide content for promoting the Residential New Construction offerings. Video clips and images are used in public relations initiatives, in social media efforts, and as featured web content.

## 2.5 HOME ENERGY SOLUTIONS AND HOME ENERGY SOLUTIONS-INCOME ELIGIBLE (SINGLE-FAMILY HOMES)

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The core of the Residential Portfolio is its home performance services programs—Home Energy Solutions (HES) and Home Energy Solutions-Income Eligible (HES-Income Eligible) programs. The primary objectives of these direct-install programs are to optimize the home energy performance of existing single-family residential dwellings (1 to 4 units), help customers save energy and lower their energy bills, and to make homes more comfortable, healthier, and affordable.

Home Performance with ENERGY STAR is a national program administered by the DOE in partnership with the US Environmental Protection Agency. This program includes a comprehensive evaluation of an existing home based on building science principles and home upgrades installed by trained and qualified networks of contractors. The innovative HES and HES-Income Eligible programs were designed around the same principles as Home Performance with ENERGY STAR and serve as the flagship programs for the Residential Portfolio. The Companies endeavor to modify these offerings to reach more homeowners and tenants and help them optimize their home’s energy performance.

During the 2022-2024 term, the Companies will continue to enhance the HES and HES-Income Eligible programs to drive greater energy savings, to help more customers (limited income and moderate income) to reduce their energy burdens, and to reduce the weatherization health and safety barriers that prevent the installation of all energy efficiency measures. The success of these programs is vital to the state meeting its legislative goal of weatherizing 80 percent of Connecticut homes by 2030. The Companies remain committed to providing support for this ambitious goal and have developed outreach efforts, program modifications, and new pathways to increase participation by customers, especially income-eligible customers.

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### 2.5.1 Themes & Priorities

#### Innovation

When the COVID-19 pandemic hit in 2020, the Companies had to temporarily suspend in-home and on-site energy efficiency activities to comply with health and safety restrictions. During the temporary halt to in-home services, the Companies had to innovate with new efficiency solutions that could produce energy savings for customers and still provide a steady pipeline of work for Connecticut’s robust home performance services workforce.

One of the resulting innovations was the Virtual Pre-Assessment (VPA), a remote assessment of a home’s energy performance by a qualified HES or HES-Income Eligible technician. VPAs are conducted via a telephone or video conferencing tool, with the customer moving around the home and taking measurements. The technician records and documents their findings in the same data collection instrument typically used for in-home visits. Though the VPA cannot provide the full diagnostics, testing, and direct install of energy efficiency upgrades normally completed through the HES and HES-Income Eligible programs, the VPA does prove useful as an analytic tool to gauge the needs of a home, assess the staffing and material resources needed to conduct an in-home assessment, and to screen for weatherization health and safety barriers. The Companies will continue to offer VPAs during the 2022-2024 term and will also explore if there are new opportunities for VPAs to generate energy savings with installed measures.

The Companies are also collaborating with landlords to increase participation in the HES and HES-Income Eligible programs. In June 2021, the Companies designed and held two roundtables to hear from landlords on how to overcome obstacles to having their tenants participate in the HES and HES-Income Eligible programs, as well as the Multifamily

Initiative (*see Section 2.6*). In 2022, the Companies plan to conduct a series of landlord roundtable sessions to gain additional insight and further explore barriers to participation.

For the 2022-2024 term, the Companies plan to:

1. Host a series of additional landlord roundtables over the next year (through the end of 2022) in partnership with local organizations in order to increase participation and diversity in the roundtables:
  - a. Create partnerships with neighborhood associations, landlord groups, and/or civic organizations to reach more landlords and tenants.
  - b. Partner with ethnic-based, community-based organizations to host multilingual roundtables to reach landlords who use language(s) other than English.
2. The Companies will explore more opportunities to communicate peer-to-peer with landlords to make them aware of energy efficiency programs and the benefits of participation. The Companies plan to create some landlord testimonials regarding their experience participating in the programs so that their experience can be shared with other landlords.

In the 2019-2021 term, the Companies established a process for residential customers who have crumbling foundations. Customers who have had their foundations evaluated and certified to be deemed “crumbling foundations” will work with the Companies through a market-rate (HES) or income eligible (HES-Income Eligible) customer process. Customer education regarding the importance of weatherization and energy-efficient technologies is imperative at the beginning of a foundation replacement project. Therefore, the Companies designed a specialized brochure to help affected homeowners understand what energy efficiency programs are available to them. The process design allows HES and HES-Income Eligible vendors to work within a timeline that suits the phase of foundation replacement that the home is in, as well as allow follow-up after the foundation has been replaced, if necessary. Additional incentives are provided to customers who make insulation upgrades and install heat pump technologies.

Additionally, the Companies are developing a residential energy efficiency concierge service for customers participating in the HES program for the 2022-2024 term.<sup>77</sup> This service will connect customers with email communications and step-by-step videos regarding the add-on measures that were recommended during their in-home HES assessment, such as insulation, heat pumps, efficient appliances, and clean energy and electrification technologies (e.g., solar photovoltaics and electric vehicle chargers). The service will educate customers regarding eligible add-on measures, rebate requirements, how to complete rebate forms/applications, and what to attach to the rebate forms/applications to verify (prove) that the measure was installed. The purpose of the concierge service is to give a homeowner a more comprehensive approach to building performance and to encourage them to take the next steps in improving their home’s energy performance. The Companies will track participant engagement and report metrics to the EEB.

### *Decarbonization*

The HES and HES-Income Eligible programs are integral in the Companies’ objective of protecting the environment and reducing greenhouse gas emissions through energy efficiency. For the 2022-2024 term, the Companies plan to promote more weatherization projects in an effort to decrease the amount of carbon emissions from the residential building

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<sup>77</sup> The creation of a concierge service offering is in compliance with Conditional Item No. 15 of DEEP’s approval of the 2021 Plan Update to the 2019-2021 Plan. See Appendix C-4.

sector, as single-family and multifamily buildings are responsible for 55 percent of energy consumption in the United States. The Companies will focus their decarbonization efforts by pushing for increased air sealing, duct sealing, and insulation projects that prevent heating and cooling losses in conditioned spaces and look for ways to market them as bundles to encourage comprehensiveness in energy-saving projects. In addition, the Companies will also promote the installation of high-efficiency HVAC equipment (including heat pumps), low-carbon water heating measures, such as heat pump water heaters, to reduce the greenhouse gas emissions resulting from heating water for the home. The HES program will also promote and incentivize the sale and installation of ENERGY STAR certified appliances and electronics, as well as advanced power strips, to reduce electricity consumption.

In totality, the decreased energy consumption will result in significant reductions in carbon emissions into the environment further meeting one of the three original priorities of the Energy Efficiency Fund. As seen during the pandemic, the Companies can use incentive amounts and requirements to push the market toward greater participation, deeper energy savings, and greenhouse gas emissions reductions. The Companies will maintain their flexible incentive models for the HES and HES-Income Eligible programs to ensure that they can quickly comply with changing policies, codes and standards, and customer needs.

#### *Workforce Development*

The Companies require HES and HES-Income Eligible vendor field technicians to have technical training regarding building science and home performance services and understanding of high-efficiency HVAC and water heating equipment. During the 2022-2024 term, the Companies will continue to collaborate with home performance trade allies to facilitate training opportunities for HES vendors, such as Building Performance Institute certifications (e.g., Building Analyst, Home Energy Professional, Healthy Homes Evaluator, Infiltration and Duct Leakage), DOE Home Energy Scorecard Qualified Assessor, sales training, weatherization barrier training, and Advanced Duct Sealing techniques. The Companies are investigating additional training opportunities to deliver hands-on training to field crews and soft-skill training to help new employees understand the overall goals. Education and outreach to trade allies bring more awareness regarding the value of the HES and HES-Income Eligible programs and helps to develop opportunities for more involvement from previously non-engaged contractors and market actors.

#### *Department of Energy Home Energy Score*

A key objective for the Companies in the 2019-2021 term was to have home performance services perceived as a high-value product to Connecticut's market-rate residential customers. This perception would be shaped by the numerous benefits of the HES program, including the significant energy and water savings, increased health and comfort, and improved indoor air quality and home safety. As part of their education and outreach efforts to customers, the Companies also include the DOE Home Energy Score™ (Initial Score) as an optional service to HES participants.

The Initial Score can be interpreted as a "miles per gallon" rating on the energy performance of a home and is on scale of 1-10 (10 being the most efficient). The Score assesses the energy efficiency of a home based on its foundation, roof, walls, insulation, windows, and HVAC equipment and makes recommendations for cost-effective improvements. For the 2019-2021 term, HES participants can opt-in to receive a Score from their technician at the time they receive energy efficiency services. The Score report provides a list of recommendations and a "Score with Improvements" is listed so the customer can determine how their home will score after the recommendations are completed.

Implementation of the Score has changed since its initial deployment in Connecticut (2013). Originally, the Companies did not anticipate sharing the Score data with outside entities. In 2018, in an effort to transform the market, a customer who

chooses to opt-in and receive a Score, could agree to release the data to the Multiple Listing Services (MLS) for future publication and use in real estate listings. The Score was designed to move the real estate marketplace (homeowners) toward valuing homes that are energy efficient and that received HES services. During the 2019-2021 term, the Companies, DEEP, and contractors observed that there seemed to be barriers to increased participation and opting in to a Score in the program. Additionally, the Score was not as valued by customers and the real estate market as anticipated. During the 2020 and 2021 program years, the Companies worked with the Home Energy Score Working Group (Working Group)—made up of DEEP, HES contractors, and other stakeholders—to identify and correct barriers to customers opting in to receive the Score and to make recommendations on how to improve the process.

In 2021, the Companies changed the customer release opt-in language to align with a more practical understanding of actual market activities. The Score data is not shared with the MLS unless a customer agrees (opts-in) in writing. This change has already resulted in increased adoption of the Score helping the customer understand how their home's energy usage compares with comparable homes across the United States. HES vendors are required to provide the Score and meet a minimum percentage of customers who opt in.

The Companies are also designing a new process to deploy in the 2022-2024 term. This is a free "Final Score" to customers who opted in to an Initial Score and completed at least one of their recommended energy efficiency upgrades. Customers will be able to request this free Final Score within 24 months of their original assessment, either as a virtual Final Score conducted by their original HES vendor or as an in-person Final Score which will be completed with a post-inspection. The Companies are working with DEEP to transform the real estate industry to understand and use green fields in the MLS listing to provide information on energy efficiency and energy usage.

In May 2021, the DOE Home Energy Score Team presented Energize Connecticut with the 2020 Home Energy Score Partner Innovation Award. This award recognized the Connecticut Home Energy Score Working Group for championing an innovative, inclusive process for improving program impact and making efforts to reach rental households with the Home Energy Score. In the upcoming term, the Companies will continue to implement the Working Group's recommendations to increase customer and realtor buy-in to the Score. In addition, the Companies will introduce the Score to the HES-Income Eligible program.

### [Census Tract Tool](#)

In their efforts to streamline access and qualification efforts for low-income customers, the Companies are working to deploy a Census Tract Tool to allow communities and vendors to select areas throughout the state that are deemed to be income eligible through US census tract data. There will be two available paths for communities and vendors to choose for marketing and an additional path to verify customers are eligible for the HES-Income Eligible program.

The communities and vendors will be able to sign into the database and select a specific number of customers. Once the customers are selected, they will be removed from the database for a predetermined number of days. This will allow time for the communities and/or vendors to market to the selected customers. Vendors will have a specific time period to create HES-Income Eligible projects in the Companies' tracking systems and then the selected customer information (those without projects) will be made available through the Census Tract Tool to other vendors. The tool will allow vendors to print out single customer information (e.g., name, address, proof that they are on the census tract) to attached to a completed HES-Income Eligible application as "proof of income."

### *Weatherization Barriers Program*

As noted in Section 2.1, in the 2022-2024 term, the Companies will focus on addressing weatherization barriers that preclude energy efficiency services from being performed in residential buildings. The non-delivery of services is typically due to health and safety concerns such as presumed asbestos containing material, mold, knob and tube wiring, venting and combustion safety, gas leaks, and carbon monoxide. Approximately 23 percent of homes that have participated in the HES-Income Eligible program are considered barriered. This is close to a quarter of income-eligible households that cannot receive valuable energy efficiency measures due to weatherization health and safety barriers.

In order to address energy affordability in the upcoming term, the Companies will assist DEEP and other industry partners with weatherization health and safety barrier remediation efforts in Connecticut. A stable funding mechanism will allow remediation contractors to address these barriers, especially in homes eligible for the HES-Income Eligible program. These barriers limit the Companies' abilities to weatherize as many homes as possible and to deliver energy savings equitably across the state. Currently, DEEP is researching best practices and available programs, as well as collaborating with the Companies, stakeholders, Community Action Agencies, and HES-Income Eligible vendors to get their feedback. Based on their benchmarking and feedback sessions, DEEP will develop a Weatherization Barrier Remediation program that leverages state and national program financing, remediation services, and funding to address weatherization health and safety barriers. The Companies will participate in DEEP's Request for Proposal process and plan to integrate and coordinate with the agency's selected vendor. The RFP release and selection award should be completed in the 2021 program year and the Companies are planning for the program to start in 2022.

Households who have not participated in energy efficiency programs due to weatherization barriers in the past can now be served through the HES and HES-Income Eligible programs, increasing participation rates across the state. The HES and HES-Income Eligible programs provide valuable weatherization and energy efficiency measures that can significantly decrease energy bills; thereby reducing customers' energy burdens. The implementation of the Weatherization Barriers program, in coordination with the HES and HES-Income Eligible programs, will increase the number of households weatherized in the state, helping to decrease demands on the grid and reducing greenhouse gas emissions.

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### 2.5.2 Home Energy Solutions Program

The HES program provides direct-install energy efficiency services for market-rate customers. The primary objective of the HES program is to optimize the home energy performance of existing single-family residential dwellings (1 to 4 units) to help market-rate customers save energy, lower their energy bills, and to make their homes more affordable, healthy, and comfortable. These benefits are achieved through the implementation of home performance services, including air sealing, duct sealing, HVAC and water heating equipment testing, and qualifying upgrades that include insulation, windows, and energy-efficient HVAC and water heating equipment. The program focuses on not only ensuring the efficiency of an individual building's systems but addressing how a building's systems interact together in an efficient manner to optimize home energy performance.

The target market for the HES program are single-family residential homes located in the state and served by the Electric and/or Natural Gas Companies. The figure below summarizes the Companies' projected energy savings, program costs and benefits for the HES program, including electric, natural gas, oil, and propane values.

**Figure 2-M: 2022-2024 HES Savings & Benefits (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Homes Served	68,767
Total Program Lifetime Savings, Electric (MWh)	255,185
Total Program Lifetime Savings, Natural Gas (ccf)	26,497,418
Total Program Lifetime Savings, Oil (Gal)	38,945,019
Total Program Lifetime Savings, Propane (Gal)	3,810,004
Total Program Lifetime Savings (MMBtu)	9,346,527
Lifetime CO <sub>2</sub> Emissions Reduced (tons)	865,003
Total Program Lifetime Benefits (\$000)	\$288,909
Total Program Costs (\$000)	\$93,898

*\*Please note that these are short tons.*

### Program Overview

The HES program has long served as the flagship program of the Companies' Residential Portfolio. Over the years, the program has morphed from a home energy assessment offering to a comprehensive direct-install energy efficiency services program. For the 2022-2024 term, HES will continue to evolve as the Companies assess and integrate new pathways, offerings, and measures into the program.

### Program Delivery Model

#### *Managed program approach and pay-for-performance pilot*

Throughout the 2022-2024 term, the Companies plan to continue delivering the HES program's high-quality home performance and direct install services to customers through a managed program approach. This is the same management design used by the Companies throughout the 2016-2018 and 2019-2021 terms. The Companies manage HES Vendors to ensure that the program is delivered throughout the state for a consistent customer experience. HES Vendors must meet stringent qualifications and insurance requirements, maintain home performance and weatherization certifications and professional licenses, and achieve energy savings metrics (MMBtus/home).

The Companies also ensure excellence in program delivery through an established and robust quality assurance process. The Companies also offer specialized trainings for HES Vendors, such as DOE Home Energy Score, Advanced Duct Sealing, and sales trainings. The Companies remain focused on meeting their performance metrics of delivering deeper savings (MMBtus/home) for HES and HES-Income Eligible program participants.

In the upcoming term, the Companies will launch a pay-for-performance pilot for the HES program. Though pay for performance is common for C&I energy efficiency programs, a similar approach is not currently used in the Residential Portfolio. As part of this pilot, delivery will include analyzing energy pre- and post-services energy usage data to determine realized savings from weatherization measures. The goal for the pay-for-performance pilot will be to determine if there are persistent energy savings from comprehensive, multi-measure energy efficiency projects and behavioral changes. Historically, replacing incandescent lighting with LEDs has been a staple energy efficiency direct-



install measure; however, it will no longer be provided in the HES program for the 2022-2024 term. HES vendors will be allowed to provide LED replacements while on a customer's premises using set pricing.

#### *Program co-pay*

For the 2022-2024 term, the Companies plan to offer HES program services at a \$50 co-payment. If necessary, the Companies will present any alternative co-payment recommendation to the EEB for their approval and submit the approved request to DEEP to establish a new co-pay amount. This request could be based on a variety of factors, including budget levels, market demand for the HES program, and methodology changes for benefit-cost testing. As noted in Section 2.5.2, the Companies will offer a Census Tract Tool during the 2022-2024 term. For select census tracts, such as distressed or environmental justice communities, residents will be eligible to receive free weatherization services through the HES-Income Eligible program.

#### *Direct-install services*

Throughout the 2022-2024 term, the HES program will deliver high-quality, direct-install services to single-family homes across the state. To ensure continuity in program delivery statewide, the Companies will require HES vendors to: (1) deliver HES direct-install services at the time of a home energy performance assessment, (2) meet a minimum MMBtu/home threshold to be considered a "HES vendor in good standing," and (3) ending the visit with a Kitchen Table Wrap-Up where technicians make qualified recommendations for high-efficiency measures and provide additional customer education. The qualified recommendations can include insulation, windows, high-efficiency HVAC equipment (including heat pumps), heat pump water heaters, appliance rebates, and smart thermostats. Additional customer education and savings opportunities include active demand response programs, appliance recycling, DOE Home Energy Score, and financing information.

The Companies adjust the MMBtu threshold on an annual basis to reflect prior year performance and program changes planned for any given year throughout the upcoming term. The HES program is designed as a custom direct-install services program allowing for each home to be treated in an individual manner to best service the customer's and residential dwelling's energy needs. As such the direct-install services listed below may differ between customers.

- **Safety and health inspection.** This is a visual assessment of the home by HES vendors to identify health and safety concerns, areas that need direct-install services, and the efficiencies and performance of appliances and HVAC and water heating equipment. HES vendors perform a variety of tests to ensure that there are no health or safety barriers, such as gas leaks or mold, within the home that will prevent them from performing weatherization services. This includes testing to ensure that natural gas or propane lines are properly sealed, that the home is properly ventilated, and that combustion systems are venting properly. The purpose of these tests is two-fold: (1) to ensure that the home is safe for direct install services, and (2) to ensure that the home is healthy and safe for the dwelling's occupants.
- **Blower door guided air sealing.** The blower door test is a diagnostic tool that is used by HES vendors to measure air leakage/infiltration in a home. The blower door test produces a partial vacuum in a home that allows HES vendors to measure the number of cubic feet per minute (CFM) of air leakage. In instances where a weatherization health and safety barrier exists, a blower door test may not be used. This diagnostic tool allows HES vendors to identify the magnitude and where air leaks are occurring in a home and the primary areas where heating and cooling losses are occurring. The vendors then provide air sealing services including caulking, spray foam, and weatherization strips. Once the air sealing services have occurred, a post-blower door test reading is

performed to measure the home's air leakage again. The energy reductions are measured by the difference in CFM measurements between the initial and post-blower door tests.

- **Duct sealing.** If a home has a ducted central heating or cooling system, duct leakage testing can measure the air leakage throughout a home's ductwork system. If the duct leakage test indicates air leakage, then the HES vendor will seal the visible ductwork leaks on-site. In certain circumstances (e.g., inaccessible duct work), Advanced Duct Sealing may be provided during a separate customer visit. Before and after measurements are recorded by HES vendors to determine duct leakage reductions.
- **Water-saving measures.** HES vendors provide direct-install services of water-saving measures including faucet aerators, low-flow showerheads, and hot water pipe insulation. These measures save water and save energy by reducing the amount of energy needed to heat the home's water.
- **DOE Home Energy Score.** As described in Section 2.5.1, HES participants can opt-in to receive a Score from their HES technician at the time they receive their direct-install energy efficiency services. The Score gives an energy performance rating on a scale of 1-10 of a home. The Score is an asset-based evaluation and assesses the energy efficiency of a home based on its foundation, HVAC equipment, insulation, roof, walls, and windows and makes recommendations for cost-effective improvements.
- **Active demand response.** In the Kitchen Table Wrap Up, HES technicians will educate participants, who have connected smart thermostats and Wi-Fi enabled heat pump water heaters about the benefits and how to participate the Active Demand Response programs.

#### Add-on Measures

To drive greater energy savings, the Companies offer incentives and financing opportunities to encourage customers to pursue additional or add-on energy efficiency measures beyond those installed during the initial HES visit. These add-on measures include appliances, connected smart thermostats, insulation, HVAC and water heating equipment, and windows. At the time of the Kitchen Table Wrap-Up, the HES vendor reviews the add-on measure incentives that the customer is eligible for and provides applicable rebate forms. To make the Kitchen Table Wrap-Up more effective, the Companies will also offer soft skills and sales trainings during the 2022-2024 term. This will empower technicians to upsell energy efficiency upgrades to customers.

- **HVAC equipment and systems.** At the time of the direct-install services, the HES vendor will evaluate the home's heating system to ensure that it is safely operating and running efficiently. The customer is notified at the Kitchen Table Wrap-Up regarding any incentives, rebates, and financing available to purchase a high-efficiency HVAC system. In addition, any heat pump and central A/C systems are also evaluated at the time of the service. All HES vendors are highly skilled and trained regarding how to educate customers about high-efficiency HVAC equipment, available incentives, and the importance of hiring licensed quality contractors to ensure that any new systems are properly sized and installed, and function at the most efficient levels possible. The HES program offers an air source heat pump rebate for electrically-heated homes (electric resistance).
- **Water heating equipment.** During the direct-install assessment of the home, the HES vendor will evaluate all the mechanical equipment, including water heating units, in a home to ensure they are operating safely and efficiently. Based on this evaluation, the HES vendor can determine if energy-efficient upgrades are needed for DHW equipment and provide the customer with a rebate (during the Kitchen Table Wrap-Up) to purchase a high-efficient replacement unit.

- **Connected smart thermostats.** These connected smart thermostats are devices that when connected to a home's heating and cooling system, can remotely adjust the temperature setting or even turn the system on or off. During the Kitchen Table Wrap-Up, a HES vendor will provide a written recommendation to the customer that they are a suitable candidate for a connected smart thermostat and should enroll the device in an Active Demand Response offering.
- **Insulation.** During the direct-install assessment, HES vendors evaluate the insulation levels in the attic, walls, and basement ceiling to determine if there are energy-saving opportunities. Incentives are provided to customers at the Kitchen Table Wrap-Up to encourage them to install high-performance insulation in critically-needed areas of the home, as well as insulated attic hatch and stairwell covers. The insulation rebate that is provided to customers has historically been provided as an open market rebate where the customer could hire any insulation contractor to complete the insulation installation. In the 2022-2024 term, the Companies will move to a hybrid approach for the rebate that will ensure best practice and program-specific guidelines for the installations. The Companies will use a tiered incentive approach where the highest tier will only be available to those insulation contractors who have gone through specific Company-sponsored training (i.e., insulation boot camp).
- **Windows.** Windows allow heat gain and heat loss in a home. During the direct-install assessment, HES vendors evaluate the efficiency of home's windows and will perform caulking and weatherstripping on site. The HES vendors can provide window rebates to customers (at the Kitchen Table Wrap-Up) and will encourage them to hire a professional contractor to replace their qualifying windows with ENERGY STAR qualified windows with low U-Factors. The Companies offer a rebate with HES services for a single-pane window replacement with a double-pane window with qualifying U-Factors. The Companies also offer a standalone rebate for single-pane or double-pane window replacement with triple-pane window with qualifying U-Factors.
- **Appliance rebates.** During the direct-install assessment, the HES vendor evaluates the efficiency of common household appliances to determine if there are energy efficiency opportunities. Incentives are provided to customers at the Kitchen Table Wrap-Up to encourage the replacement of inefficient units with ENERGY STAR qualified appliances, including clothes washers, dehumidifiers, freezers, and refrigerators.
- **Residential lighting fixture (Eversource only).** This rebate is available to replace and upgrade interior light fixtures with qualifying LED fixtures.

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#### 2.5.4 Home Energy Solutions-Income Eligible Program

##### Target Market

The HES-Income Eligible program targets low-income residential customers who live in single-family buildings (1 to 4 units) across Connecticut. Customers who qualify for the HES-Income Eligible program must meet at least one of the following criteria: (1) have income that is at or below 60 percent of the State Median Income, (2) customer must not have participated in HES or HES-Income Eligible in the past 36 months, and/or (3) customer must live in a single-family dwellings or facility that provides beneficial services to residents, including but not limited to: disabled veterans groups, group homes, halfway homes, and non-profit agencies who offer housing and emergency shelter to disadvantaged residents.

In the 2019–2021 term, the Companies worked to streamline the HES-Income Eligible application process to make it easier to apply and qualify for services. Customers can qualify if they meet one of the following criteria:

- Participate in utility-offered forgiveness programs.
- Participate in electronic benefits transfer (e.g., Supplemental Nutritional Assistance Program), energy assistance, or have a Section 8 Housing Choice voucher.
- Have income that is at or below 60 percent of the State Median Income.
- In the case of a multi-unit building (2 to 4 units), if 50 percent (2 out of 4 units) or 66 percent (2 out of 3 units) of the tenants qualify for the HES-Income Eligible program, then the remaining tenants can also qualify by completing an application.

The HES-Income Eligible program is designed to decrease the energy burden of income-eligible customers living in single-family homes by providing comprehensive home performance projects through an initial direct-install services assessment that mirrors the HES program's direct-install services and additional installation of qualifying energy efficiency upgrades. The direct-install assessment measures include air sealing, duct sealing, HVAC and water heating equipment testing and repair. The energy efficiency add-on measures include insulation, windows, appliances, heating equipment (including heat pumps), water heating equipment, and smart thermostats.

The following figure summarizes the Companies' projected energy savings, program costs and benefits for the HES-Income Eligible program, including electric, natural gas, oil, and propane values.

**Figure 2-N: 2022-2024 HES-Income Eligible Savings & Benefits (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Homes Served	56,675
Total Program Lifetime Savings, Electric (MWh)	116,612
Total Program Lifetime Savings, Natural Gas (ccf)	35,635,369
Total Program Lifetime Savings, Oil (Gal)	18,592,916
Total Program Lifetime Savings, Propane (Gal)	1,767,300
Total Program Lifetime Savings (MMBtu)	6,804,819
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	578,080
Total Program Lifetime Benefits (\$000)	\$234,172
Total Program Costs (\$000)	\$94,271

*\*Please note that these are short tons.*

### Customer Costs

While the HES-Income Eligible program is designed to have a similar customer experience to the HES program, the HES-Income Eligible program's services are offered without a customer contribution for the assessment. This includes the direct-install measures and little to no contribution from the customer for qualifying add-on measures. The customer contribution is determined by reviewing the savings that will be achieved for the measures (total add-on project) that may produce no contribution or a nominal contribution off the customer or landlord.

### Priorities

For the 2022-2024 term, the Companies have developed several priorities for the HES-Income Eligible program. They include:

- Increase the number of homes that have insulation installed.
- Integrate the DOE Home Energy Score into the program’s offerings.
- Deliver comprehensive home performance projects to income-eligible customers, with the same add-on measures (referenced in Section 2.5.3) at little or no cost (contribution). During the 2019-2021 term, HES-Income Eligible vendors were pushed to deliver more comprehensive projects and this will continue in the upcoming term.

### Program Overview

The HES-Income Eligible program delivers direct-install services to customers through a Qualified Vendor-managed program approach. HES-Income Eligible “Qualified Vendors” are selected through a competitive bidding process managed by the Companies. This managed approach ensures the delivery of the same high-quality, innovative and cost-effective home performance services throughout the state. The Companies also ensure excellence in program delivery through an established and robust quality assurance process.

### Managed Program Approach and Measures

During the 2022-2024 term, the HES-Income Eligible program will continue to deliver high-quality direct install services to single-family homes statewide. To ensure continuity in program delivery statewide, the Companies require HES-Income Eligible vendors to: (1) deliver HES-Income Eligible direct-install services at the time of a home performance assessment, (2) meet a minimum MMBtu/home threshold to be considered a “HES-Income Eligible vendor in good standing,” and (3) end the visit with a Kitchen Table Wrap-Up where technicians make all qualified recommendations for high-efficiency measures and provide additional customer education.

The qualified recommendations can include insulation, windows, high-efficiency HVAC including heat pumps, heat pump water heaters, appliance rebates, and smart thermostats. Additional customer education and savings opportunities include advanced demand response options, appliance recycling, DOE Home Energy Score and financing information, when applicable. The Companies adjust the MMBtu threshold on an annual basis to reflect prior year performance and program changes planned for any given year throughout the upcoming term. The HES-Income Eligible program is designed as a custom direct-install services program allowing for each home to be treated in an individual manner to best service the customer’s and residential dwelling’s energy needs. As such the direct-install services listed below may differ between customers.

- **Safety and health inspection.** This is a visual assessment of the home by HES-Income Eligible vendors to identify health and safety concerns, areas that need direct-install services, and the efficiencies and performance of appliances and HVAC and water heating equipment. HES vendors perform a variety of tests to ensure that there are no health or safety barriers, such as gas leaks or mold, within the home that will prevent them from performing weatherization services. This includes testing to ensure that natural gas or propane lines are properly sealed, that the home is properly ventilated, and that combustion systems are venting properly. The HES-Income Eligible program also assists customers in remediating some health and safety issues that are barriers to energy

efficiency, such as performing a clean, tune & test of the home’s HVAC system, making furnace repairs, fixing natural gas and propane leaks, and performing water heating equipment tune-ups.

- **Blower door guided air sealing.** The blower door test is a diagnostic tool that is used by HES vendors to measure air leakage/infiltration in a home. The blower door test produces a partial vacuum in a home that allows HES vendors to measure the number of cubic feet per minute (CFM) of air leakage. In instances where a weatherization health and safety barrier exists, a blower door test may not be used. This diagnostic tool allows HES vendors to identify the magnitude and where air leaks are occurring in a home and the primary areas where heating and cooling losses are occurring. The vendors then provide air sealing services including caulking, spray foam, and weatherization strips. Once the air sealing services have occurred, a post-blower door test reading is performed to measure the home’s air leakage again. The energy reductions are measured by the difference in CFM measurements between the initial and post-blower door tests.
- **Duct sealing.** If a home has a ducted central heating or cooling system, duct leakage testing can measure the air leakage throughout a home’s ductwork system. If the duct leakage test indicates air leakage, then the HES vendor will seal the visible ductwork leaks on-site. In certain circumstances (e.g., inaccessible duct work), Advanced Duct Sealing may be provided during a separate customer visit. Before and after measurements are recorded by HES vendors to determine duct leakage reductions.
- **Water-saving measures.** HES-Income Eligible vendors provide direct-install services of water-saving measures including faucet aerators, low-flow showerheads, and hot water pipe insulation. These measures save water and save energy by reducing the amount of energy needed to heat the home’s water.
- **Limited lighting measures.** Although the lighting market has been transformed, the Companies will continue to provide LEDs to HES-Income Eligible participants.
- **DOE Home Energy Score.** As described in Section 2.5.1, HES-Income Eligible participants can opt-in to receive a Score from their HES technician at the time they receive their direct-install energy efficiency services. The Score gives an energy performance rating on a scale of 1-10 of a home. The Score is an asset-based evaluation and assesses the energy efficiency of a home based on its foundation, HVAC equipment, insulation, roof, walls, and windows and makes recommendations for cost-effective improvements.
- **Active demand response.** In the Kitchen Table Wrap Up, HES-Income Eligible technicians will educate participants, who have connected smart thermostats and Wi-Fi enabled heat pump water heaters about the benefits and how to participate the Active Demand Response programs.

In addition to these direct-install measures, the Companies drive for deeper energy savings in income-eligible homes by promoting the bundling of add-on measures, such as insulation upgrades, window replacements, HVAC and water heating equipment, appliance upgrades, advanced power strips, and connected smart thermostats.

- **HVAC equipment and systems repair or replacement.** At the time of the direct install assessment, the HES-Income Eligible technician will evaluate the home’s heating system to ensure that it is safely operating and running efficiently. If there was combustion appliance zone test failure, the technicians will recommend a clean, tune, and test or furnace repair. This work needs to take place in order for the blower door air sealing can be completed. Otherwise, if the home qualifies for a heating system replacement, the customer is notified at the Kitchen Table Wrap-Up that the vendor will follow-up with details on qualifying upgrades for heating systems. In addition, any heat pump systems are also evaluated at the time of the service. The HES program offers an air source heat pump rebate for electrically-heated homes (electric resistance).

- **Water heating equipment.** During the direct-install assessment of the home, the HES-Income Eligible vendor will evaluate all the mechanical equipment in a home, including water heating equipment, to ensure they are operating safely and efficiently. Based on this evaluation, the HES-Income Eligible vendor can determine if energy-efficient upgrades are needed for water heating equipment and follow-up with details on qualifying upgrades.
- **Connected smart thermostats.** These connected smart thermostats are devices that when connected to a home's heating and cooling system, can remotely adjust the temperature setting or even turn the system on or off. The HES-Income Eligible vendor will follow-up to provide details of qualifying upgrades that include details on the applicable active demand response program.
- **Insulation.** During the direct install assessment, HES-Income Eligible vendors evaluate the insulation levels in the attic, walls, and basement ceiling to determine if there are energy-saving opportunities. The HES-Income Eligible vendor will discuss the qualified insulation upgrades with the customers at the Kitchen Table Wrap-Up and will follow-up with the details of qualifying high-performance insulation, as well as insulated attic hatch and pulldown stair covers. HES-Income Eligible vendors are encouraged to complete projects in every home that needs insulation.
- **Windows.** Windows allow heat gain and heat loss in a home. During the direct install assessment, HES-Income Eligible vendors evaluate the efficiency of home's windows and will perform caulking and weatherstripping on site. The HES-Income Eligible vendor will discuss qualifying window upgrades with customers at the Kitchen Table Wrap-up and follow-up with more details to replace their qualifying windows with ENERGY STAR qualified windows with low U-Factors. The Companies offer single-pane window replacement with a double-pane window or triple-pane window with qualifying U-Factors.
- **Appliance vouchers.** During the direct install assessment, the HES-Income Eligible vendor evaluates the efficient of common household appliances to determine if there are energy efficiency opportunities. The HES-Income Eligible vendor will discuss qualifying upgrades for the refrigerator or freezer replacement voucher at the Kitchen Table Wrap-up and will follow-up with more details to encourage the replacement of inefficient units with ENERGY STAR qualified freezers and refrigerators.

#### *Weatherization Assistance Program—Collaboration with Community Action Agencies*

In the upcoming term, the Companies will collaborate with Community Action Agencies, community-based organizations, and other community partners to educate customers about the HES-Income Eligible program. DOE's WAP reduces energy costs for low-income households by increasing the energy efficiency of their homes, while ensuring health and safety.<sup>78</sup> WAP supports 8,500 jobs nationally and provides weatherization services to over 35,000 homes every year using DOE funds. WAP is implemented by locally-based and professionally-trained crews who use a computerized auditing tool and advanced diagnostic equipment (e.g., blower doors, manometers, infrared cameras) to create a comprehensive analysis of a home's energy performance.

In Connecticut, WAP is administered by DEEP through two Community Action Agency administrators. The statewide CAA network provides leads and applications to the selected Community Action Agency administrator. For the 2022-2024 term, the Companies will continue their long-term partnership with the Community Action Agencies to assist in cost

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<sup>78</sup> WAP is part of the Weatherization and Intergovernmental Programs Office and supports DOE's objective to lower energy bills while expanding cost-effective energy choices for all American communities.

sharing energy efficiency measures for WAP projects including direct-install measures, ductless heat pumps, water heating equipment, heating system replacements, insulation, and windows.

For the upcoming term, the Companies will assist DEEP and other industry partners in their efforts to leverage funding from LIHEAP and ARPA to address weatherization and other health safety barriers in Connecticut homes. This additional funding stream would allow the Companies to serve more customers, drive deeper energy savings, and use Energy Efficiency Fund dollars toward other programmatic elements.

## 2.6 MULTIFAMILY INITIATIVE

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The Multifamily Initiative is a statewide comprehensive offering that provides customized solutions for existing multifamily properties with five or more dwelling units. Solutions include assistance with energy efficiency upgrade projects, comprehensive energy assessments of a building's energy-saving opportunities, and incentives and financing for energy efficiency upgrades.

### 2.6.1 Objectives & Target Market

The primary objective of the Multifamily Initiative is to provide a comprehensive solution that evaluates and services multifamily buildings for all energy efficiency opportunities. This unique initiative combines programmatic elements of the single-family home performance services programs (HES and HES-Income Eligible), with the energy-saving solutions found in the Companies' C&I Portfolio programs (Energy Opportunities and Small Business Energy Advantage). Combining these two approaches allows multifamily property owners and their tenants to save energy and money under a seamless umbrella initiative. Treating a multifamily building holistically requires viewing the total energy usage, including tenant and tenant support (e.g., public areas and shared building systems).

The Multifamily Initiative services residential properties with five or more units and is open to any customer, regardless of heating fuel type or household income, who resides within the Companies' service territories. These buildings include, but are not limited to: apartment and complexes, condominiums and co-operatives, congregate and senior housing, mixed-use residential and commercial properties, assisted living facilities, and dormitories. Typically, these buildings are managed by property management companies or a condominium association. In most cases, the person(s) who occupy the housing units cannot make decisions regarding changes to the four walls, the roof, and fixed appliances. This falls under the purview of the property owner, property management company, or condominium association. In the upcoming term, the Multifamily Initiative will target electric heat customers using market segment data to promote heat pump technologies.

The Multifamily Initiative provides the same level of services to the following customer segments:

- **Income Eligible.** Multifamily property with: (1) two thirds of occupants with gross annual income at or below 60 percent of the State Median Income, or (2) customers residing in *Community Reinvestment Act* areas or eligible US Census tracts, or (3) residential dwelling or facilities providing beneficial services to residents.
- **Market Rate.** Any multifamily building that does meet the income-eligible criteria.

Please note that the Multifamily Initiative's budgets and savings are allocations from the overall HES and HES-Income Eligible programs' approved budgets and goals referenced in Sections 2.5.2 and 2.5.3, respectively.



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## 2.6.2 Themes & Priorities

### Collaboration

The Companies collaborate with multiple community-based organizations, financing organizations, housing authorities, CAAs, and property associations to effectively conduct outreach to multifamily properties across the state. During the 2016-2018 term, the Companies successfully worked with the Connecticut Housing and Financing Authority (CHFA) and the Connecticut Department of Housing (DOH) to develop a process where the utilities review CHFA/DOH renovation and new construction projects and issue a Letter of Participation (LOP) that notes the opportunities for energy savings. Since the process began in 2016, there have been 112 projects completed and the Companies have leveraged \$7.8 million in energy efficiency incentive funding.

For the 2022-2024 term, the Companies will continue to collaborate with CHFA and DOH to leverage Fund dollars to increase the efficiency of multifamily homes, decrease greenhouse gas emissions, and make these properties more affordable. Additionally, Governor Lamont's administration is recommending the use of \$7 million from the American Rescue Plan Act of 2021 toward affordable housing projects, including making existing units more energy efficient. The Companies will look to collaborate with state agencies to offer technical and funding support from the Multifamily Initiative.

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## 2.6.3 Program Overview

The Multifamily Initiative is an open market offering and homeowners and building owners can use any contractor that they prefer. The Initiative offers incentives, financing, and technical assistance for energy-efficient improvements to individual units and entire property systems.

### Measures

The Multifamily Initiative provides home performance assessments and the direct install of energy-efficient measures similar to both the HES and HES-Income Eligible programs. Tenant-occupied areas can receive direct-install measures including air sealing, duct sealing, the installation of energy-efficient LED lighting (income-eligible properties only), and hot water-saving measures (e.g., low-flow showerheads and aerators). Add-on measures, beyond the direct-install dwelling units measures, are also offered through the Multifamily Initiative and include HVAC and water heating equipment and controls, insulation, windows, appliances, connected smart thermostats, custom measures, and lighting fixtures and lighting controls in dwelling units and exterior and common areas.

In addition, the Initiative also focuses on several high-efficiency technologies and measures that help these larger residential buildings optimize their energy performance. These measures include:

- **Triple-pane windows.** To make the building envelope tighter, the Companies have designed an offering for multifamily properties to encourage the replacement of single-pane windows and doors with triple-pane products. This offering provides an incentive that covers up to 100 percent of the cost difference between the inefficient and efficient measure. Eligible triple-pane windows must have a U-value of 0.20 or better.
- **Heat pump water heaters.** To support the installation of heat pump technologies in multifamily buildings, the Companies developed a heat pump water heater installation guide in 2018. This guide has proven successful in educating contractors regarding how to properly install the technology to optimize savings and where to locate

the units, so they perform efficiently. Since 2018, over 1,200 heat pump water heaters have been installed through 44 different Multifamily Initiative projects.

- **Electric resistance to heat pump conversions.** Since 2018, over 490 heat pumps have been installed through the Multifamily Initiative. The Companies note that proper installation is critical to optimize energy savings and that integrated controls are also needed to ensure that the systems operate efficiently, especially when paired with other heating and cooling technologies in the multifamily building. The Companies increased the incentives for heat pumps in May 2020. The Companies have seen an increase in heat pump activity commensurate with the incentive increase. The Companies have aligned Connecticut’s incentives and heat pump qualification criteria with other states in the New England region.
- **Gasketed A/C cover sleeve.** In many multifamily buildings, sleeve or through-the-wall air conditioners are installed as self-contained units that can be installed and removed by a tenant. These units are mounted in a metal sleeve installed through a rough opening in the wall, typically under a window in every bedroom and living area, and these openings through a building’s envelope are there year-round. There can be air leakage around the joints between the unit and its sleeve, the joint between the sleeve and the drywall finish, and through the air conditioner unit itself. A gasketed A/C cover sleeve can help to reduce air leakage around room A/C units.

#### Engagement with Multifamily Building Owners

The Companies have established two primary objectives in the 2022-2024 term to encourage multifamily building owners toward greater installation rates of additional measures. The first objective will be to host a series of landlord roundtables through the end of 2022 in partnership with local organizations to reach more landlords and tenants. The Companies will partner with ethnic-based, community-based organizations to host multilingual roundtables to reach multifamily building owners who have limited English proficiency. The second objective is to explore more opportunities to communicate peer-to-peer with landlords to make them aware of energy efficiency programs and the benefits of participation. The Companies plan to create some landlord testimonials regarding their experience participating in the programs so that their experience can be shared with other landlords.

## **2.7 BEHAVIORAL STRATEGIES**

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### **2.7.1 Overview**

The premise behind behavioral-based strategies is the idea that if a customer is educated regarding how much energy they consume then they can be encouraged to make a behavior change that will result in energy efficiency. In 2011, the Companies began to offer behavioral-based solutions that were designed to make customers aware of how much energy they consume and to empower them to adopt energy-efficient behaviors and technologies. Historically, the Companies’ behavioral-based strategies were tied to the delivery of Home Energy Reports. These Home Energy Reports were behavioral-based communications, printed or electronic, that gave visuals showing energy consumption, comparisons to the consumption of neighbors, and steps or actions they could take to reduce their energy consumption. By comparing the usage of customers receiving these reports (in the treatment group) to those not receiving the Home Energy Reports (in the control group), savings attributable to the reports themselves could be calculated.

During the 2019-2021 term, the Companies offered Home Energy Reports to their customers (or for at least a portion of the term). The feasibility and cost effectiveness of behavioral offerings is contingent upon scale. There are large, fixed,

upfront costs associated with creating the data integrations that created cost-effectiveness challenges for the Companies. The Companies began to closely monitor the marketplace for continued enhancements to behavioral-based strategies and focused on finding solutions that provided individualized customer communications. The Companies began to drive energy efficiency awareness and customer action by meeting customers where they are with the right message at the right time. These new approaches and delivery models involved identifying good candidates for specific offers (such as a product or measure) based on what the respective Companies know about them (demographically), their homes, and how much energy they consume, then designing a series of personalized communications and interactions over time to move customers along the desired path to energy efficiency.

For the 2022-2024 term, the Companies will continue to deliver these customized communication journeys that use behavior-based principles to their customers. Eversource's and United Illuminating's behavior-based strategies are described in the following sections. The following figure summarizes the Companies' projected energy savings, program costs, benefits, and cost effectiveness for the Behavioral Strategies, including both electric and natural gas values.

**Figure 2-O: 2022-2024 Behavioral Strategies Savings & Benefits (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Homes Served	489,837
Total Program Lifetime Savings, Electric (MWh)	14,924
Total Program Lifetime Savings, Natural Gas (ccf)	1,625,946
Total Program Lifetime Savings (MMBtu)	218,231
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	17,759
Total Program Lifetime Benefits (\$000)	\$5,626
Total Program Costs (\$000)	\$2,015

*\*Please note that these are short tons.*

## 2.7.2 Energy Insights (Eversource)

### Objectives & Target Market

Eversource's Energy Insights pilot is a streamlined approach to providing customers with data-driven usage insights paired with targeted recommendations to motivate behavior change and participation in energy efficiency programs. The pilot leverages Eversource's expertise gained through previous experience with traditional behavioral programs and digital customer engagement in the areas of data analytics, informational design, behavioral science, and communication delivery. In May 2020, Eversource released a Request for Information to determine what types of customer engagement services and solutions were offered in the marketplace for consideration across its three-state service territory (Connecticut, Massachusetts, and New Hampshire). The selected tools have enabled Eversource to integrate customized usage insights and recommendations for pilot participants.

### Program Design and Marketing

The Energy Insights pilot will drive energy efficiency awareness and customer action by meeting customers where they are with the right message at the right time. Eversource's approach involves identifying good candidates for a specific offer (behavioral recommendation and/or energy efficiency measure) based on what Eversource knows about them, their

homes, and how they use energy, then designing a series of personalized communications and interactions over time to move customers along the desired path to energy efficiency.

Communications will include customized usage insights and recommendations delivered through traditional one-on-one outbound marketing channels (email and sometimes direct mail) that allow for personalization at scale. To maximize impact and reinforce the message, Eversource will integrate this information with natural touchpoints that customers have with their utility (for example, the process of viewing and paying a bill online) and trigger the presentation of information at times when its most relevant (for example, seasonal changes in temperature or after a customer receives a high bill). For the 2022-2024 term, the Energy Insights pilot will focus primarily on residential customers with learnings from that work applied to relevant C&I subsegments in subsequent years. Eversource will involve statewide evaluation contractors early in the design process to ensure that the methodologies used meet requirements for future savings evaluations.

Through most of the 2022-2024 term, Eversource does not expect for the pilot to generate behavioral-based energy savings at a large scale. The focus of the pilot in the near term is to develop customized communication journeys that utilize behavioral-based principles and an experimental design that allows for any generated savings to be evaluated and potentially claimed. The Energy Insights pilot will be administered as a behavioral-based strategy within the Residential Portfolio; however, the pilot is not expected to generate a large quantity of behavior-based energy savings for the first couple years of implementation and its nominal initial costs will be allocated to the marketing budgets, similar to the ramp-up period typically observed in traditional Home Energy Reports programs.

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### 2.7.3 Program Design (United Illuminating)

#### *Behavioral Initiative*

For the 2022-2024 term, United Illuminating will look to harness its Advanced Metering Infrastructure (AMI) data to give customers insight into how they use energy and how to make better choices. This insight will be delivered through multiple digital touchpoints on the company's website when customers go online to pay their bills. The communications will be paired with energy bill payments so that customers are prompted to make an energy-efficient choice or are offered a rebate that is targeted for their home and the way they consume energy.

United Illuminating will use demographic and customer-specific data to make these energy efficiency recommendations and will be supported through the company's new behavioral-based and engagement software, the Global Energy Manager Platform. In the beginning of the 2022-2024 term, United Illuminating does not expect for the pilot to generate behavioral-based energy savings at a large scale. As such, the initial costs for the Behavioral Initiative will be allocated to the marketing budgets.

## 2.8 DEMAND MANAGEMENT PROGRAMS

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The Independent System Operator-New England (ISO-NE) manage new England's generation and transmission infrastructure. ISO-NE is responsible for the reliability of the grid to meet the system load at every hour of the day on a year-round basis. Traditional asset-based energy efficiency programs result in load reductions year-round as the high-efficiency measures installed produce both energy savings and "passive" demand reductions. The Companies aggregate these demand reductions and bid them into ISO-NE's Forward Capacity Market (FCM). The revenues from FCM auctions help offset energy efficiency program costs.

During the 2019-2021 term, the Companies integrated active demand response programs into the Residential Portfolio to assess demand reductions (kW) of each offering, as well as customer participation rates vs. opt-out rates, and customer engagement. Active demand response programs require customers to make discrete actions that they would not have otherwise taken to reduce their electrical load for a specified period of time, such as allowing their smart thermostats to be remotely adjusted a few degrees or agreeing to have their electric vehicle charging times shifted to off-peak times. The Companies incentivize these brief reductions in customer load during targeted periods of high system demand. These incentives encourage customer participation and increase demand reductions.

The Companies' active demand response offerings result in a smaller generation, transmission, and distribution system which reduces customer costs and increases the reliability of the grid due to reduced peak demand. The peak demand reductions from the Companies' programs provide benefits to all customers by suppressing wholesale power prices during peak demand times and reducing the need to use generation that is more expensive and environmentally destructive. This offsets the need for fossil-fueled generation and also contributes to reduced greenhouse gas emissions.

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### 2.8.1 Objectives & Target Market

The Companies' active demand response offerings are designed to decrease peak demand by incentivizing customers to enroll eligible communicating equipment. The reduction in peak demand results in lowered energy costs to customers, more reliability of the grid, and reduced greenhouse emissions. Currently, eligible technologies in the residential sector include plug load control devices, smart thermostats, electric vehicle chargers, residential storage (batteries), water heating equipment, and other smart, connected technologies. The Companies are always exploring additional opportunities and will consider including cost-effective measures as they are discovered. Incentives are given when a customer enrolls eligible equipment into an Active Demand Response offering. The customer can earn additional incentives by participating during a demand response event.

All residential customers of the Companies are eligible to participate in the Companies' active demand response offerings, provided their equipment meets program-specific criteria. The following figure summarizes the Companies' projected peak demand savings, program costs, benefits, and cost-effectiveness for the Demand Management programs.

**Figure 2-P: 2022-2024 Residential Demand Management (Combined Electric)\***

Planned Results	Total
Number of Units Enrolled	99,498
Summer kW Peak Demand Reduction	60,516
Total Program Lifetime Benefits (\$000)	\$13,242
Total Program Costs (\$000)	\$11,705

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### 2.8.2 2022-2024 Priorities

#### *Co-delivery of Energy Efficiency and Active Demand Response Programs*

The Companies develop and implement active demand response offerings to provide a number of benefits to customers and the grid. These benefits include improving the reliability of the grid, reducing customer costs, and providing

significant environmental benefits by offsetting the need for fossil-fueled generation. Combining these benefits with those resulting from energy efficiency programs is critical to the success of the Residential Portfolio.

For the 2022-2024 term, the Companies are focused on educating customers to look at energy consumption from a holistic view in terms of both energy efficiency and demand reduction measures. To do so, the Companies will use existing energy efficiency program delivery channels and measures to promote and educate customers regarding active demand response technologies, such as HVAC controls, and electric vehicle chargers and storage technologies. The Companies are always exploring additional opportunities and will consider including cost-effective measures when they are discovered. The Companies will promote these active demand response technologies through their home performance services and new construction offerings. For the Residential New Construction program, the Companies will also establish make-ready requirements ensuring that homes have the capability to integrate building systems with demand reduction technologies in the future.

The Companies will increase their outreach to residential customers to educate them regarding active demand response technologies. This outreach will include the deployment of cross-promotional strategies to advertise the active demand response offerings to customers at the point-of-sale of plug load control devices, smart thermostats, electric vehicle chargers, water heating equipment, and other smart, connected technologies.

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### 2.8.3 Program Offerings

The Companies offer a number of active demand response offerings that are marketed to residential customers across the state. Customers are offered incentives to enroll their connected devices, such as thermostats connected to central air conditioning and residential storage (i.e., batteries), into an active demand response offering. Once a customer is enrolled, the Companies or a third-party service provider, send signals to the customer's equipment to reduce or offset (i.e., turn on/off) the customer's energy consumption during peak demand periods.

Typically, the Companies offer an incentive for a customer to sign up for a technology, and an additional incentive for the customer to participate in a demand response event and is based on how much electrical demand was reduced. A customer can elect to override a signal to reduce or offset their equipment; however, this will affect the level of incentive they receive and can make them ineligible for continued program participation. For some active demand response offerings, the Companies may combine the enrollment incentive with the pay-for-performance payment to offer a flat-rate participation incentive. As in previous Plan terms, the Companies plan to monitor program performance and incentive structures to determine if they need modifications during the 2022-2024 term.

#### [Eversource Programs](#)

##### Bring Your Own Thermostat

Central air conditioning represents one of the largest controllable loads in residential buildings and the use of air conditioning is highly coincident with ISO-NE system peaks. This makes homes with equipment that provides central air conditioning ideal candidates for participation in Eversource's Bring Your Own Thermostat (BYOT) program. The BYOT program is technology agnostic and allows customers to enroll any connected smart thermostat. For the 2022-2024 term, Eversource will continue to implement the BYOT program and offer a flat-rate participation incentive that includes both an enrollment payment and performance payment. Once customers are enrolled, Eversource initiates all demand response events and the equipment manufacturer is responsible for executing on that dispatch signal.

By adjusting the temperature settings on a connected thermostat during peak demand periods, the Companies can deliver substantial reductions in demand. With the increasing penetration of both connected thermostats and central air conditioning, the Companies expect this program will be a key area of continued growth and peak demand savings over the next three-year period.

### Window A/C Controls

This program is designed to control costs and maintain persistent savings in homes with window A/Cs. In Connecticut and across New England, there is a segment of homes without central A/C due to the older housing stock without ductwork and the short cooling season. The initial launch of this program was in 2020 and customers were enrolled throughout the 2021 program year with some challenges related to savings persistence and device connectivity. For the 2022-2024 term, Eversource will look to overcome these challenges as the control of window A/Cs have a significant potential for demand savings.

### Statewide Electric Storage Program

On July 1, 2021, PURA issued its final decision in Docket No. 17-12-03RE03 as part of its grid modernization docket.<sup>79</sup> The regulatory decision established a statewide electric storage program (Electric Storage Program) for all residential and C&I customers within the service territories of the electric distribution companies (EDCs). PURA established two compensation mechanisms for electric storage systems participating in the Electric Storage Program:

- An upfront incentive administered by the CT Green Bank, and
- Performance-based incentives administered by the EDCs (i.e., the Electric Companies).

Over the nine-year term of the Electric Storage Program, the CT Green Bank's and EDCs' efforts are expected to help PURA meet its goal of deploying at least 580 MW of electric storage in Connecticut by 2030. This program is expected to start in January 2022. During the 2022-2024 term (and the initial implementation of the Electric Storage Program), Eversource will monitor its Residential Battery Storage offering (see below) to determine how this initiative will interact with the Program or be replaced.

### *Residential battery storage offering*

Battery storage is an ideal active demand reduction strategy, especially for the residential sector. Unlike C&I customers, there are no demand charges on residential customers' distribution bills. This means they have little to no incentive to charge and discharge their batteries (e.g., solar, electric vehicle) and creates a group of valuable energy assets which serve little purpose other than to provide backup during a power outage. By enrolling battery storage, the Companies or third-party providers can send dispatch signals to enrolled batteries instructing them to discharge (i.e., send power back to the grid) during peak demand periods. Further, unlike adjusting thermostat settings in the BYOT program, there are no direct impacts to customer comfort or convenience. Battery storage technology is envisioned as an optimal strategy, as it allows customers to provide load reduction in several ways, as the technology can provide capacity in daily and targeted periods.

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<sup>79</sup> PURA, Proposed Final Decision, Docket No. 17-12-03RE03: PURA Investigation Into Distribution System Planning of the Electric Distribution Companies-Zero Emissions Vehicles, issued Jul. 1, 2021, available online at: <https://portal.ct.gov/-/media/PURA/electric/Electric-Storage-Proposed-Final-Decision-07-01-21.pdf>.

Eversource introduced its Residential Battery Storage offering to Connecticut in 2020. This offering was shaped by the results and findings from Eversource’s deployment of residential battery storage projects in Massachusetts. In 2021, Eversource completed its three-state Request for Proposal for demand reduction vendors for targeted technologies, including battery storage. With over 800 batteries currently enrolled over the three states, Eversource plans to continue the offering for the 2022-2024 term.<sup>80</sup> Eversource may explore new ways to expand the program to include new battery partners and explore new customer incentive structures to promote growth and increase system and customer benefits. For example, Eversource will provide charging incentives in the middle of the day (to take advantage of solar photovoltaic generation) and demand reduction incentives at the end of the day (to shave the system peak).

### Statewide Electric Vehicle Charging Program

On July 14, 2021, PURA issued its final decision in Docket No. 17-12-03RE04 as part of its grid modernization docket.<sup>81</sup> This decision established a statewide zero emission electric vehicle program (Electric Vehicle Charging Program) for all customers and customer classes within the service territories of the Electric Companies. The Electric Vehicle Charging Program consists of a combination of incentives for networked Level 2 electric vehicle supply equipment (EVSE) and direct current fast chargers (DCFC), as well as accompanying rate design offerings.

The Electric Companies will administer the Electric Vehicle Charging Program in their respective service territories. There are five program areas, or market segments, in the program’s design to optimize EVSE deployment and associated distribution system infrastructure necessary to meet Connecticut’s transportation electrification goals:

- Residential Single-Family Level 2 Charging,
- Residential Multi-Unit Dwellings (MUDs) Level 2 Charging,
- DCFC,
- Destination Level 2 Charging, and
- Workplace & Light-Duty Fleet Level 2 Charging.

These five program areas represent a comprehensive, portfolio approach to enabling zero-emission vehicle deployment on the scale necessary for the State to meet its electric vehicle policy goals and greenhouse gas reduction targets. During the 2022-2024 term, Eversource will monitor its Electric Vehicle Charger Control and Direct Communication to the Electric Vehicle offerings (see below) to determine how they will coordinate or integrate the implementation of these initiatives with the Electric Vehicle Program.

#### *Electric vehicle charger control offering*

Since 2011, consumer demand for electric vehicles has increased significantly with over 1.5 million vehicles currently on the nation’s roads and the Edison Electric Institute forecasts electric vehicle sales will surpass 3.5 million by 2030.<sup>82</sup> This increase has direct impacts on the electric power system as electric vehicles require chargers that draw power during

<sup>80</sup> This decision rests on the success of the 2021 Summer season.

<sup>81</sup> PURA, Decision, *Docket No. 17-12-03RE03: PURA Investigation Into Distribution System Planning of the Electric Distribution Companies-Zero Emissions Vehicles*, issued Jul. 14, 2021, available online at: <https://portal.ct.gov/-/media/PURA/electric/PURA-Establishes-Statewide-Electric-Vehicle-Charging-Program.pdf>.

<sup>82</sup> Edison Electric Institute, *Issues & Policy: Electric Transportation*, available at: <https://www.eei.org/issuesandpolicy/electrictransportation/Pages/default.aspx>.



both peak and off-peak times. As the adoption and use of electric vehicles increase across the United States and in Connecticut, utilities must consider how best to manage this additional load to benefit the electric power system and customers.

Electric vehicle charging represents a growing load within Eversource's Connecticut service territory and is a load with the flexibility needed to be part of an Active Demand Response offering. Research suggests that 80 percent of charging is done at residences and may be coincident with system peaks. Eversource plans to continue the offering in the 2022-2024 term and to continue reaching out to other partners.

#### *Direct communication to the electric vehicle offering*

This offering is a plug-and-play electric vehicle load profiling and shifting program developed to better understand the technology's load on the grid and shift vehicle charging to more desirable times while reducing the cost of charging for electric vehicle customers. During the 2021 program year, this initiative was deployed simultaneously in Connecticut and Massachusetts. It collected data on electric vehicle customers (who had opted in) regarding their driving and charging behaviors to evaluate demand response needs for vehicle charging. Customers received notifications designed to promote charging in periods more favorable to the grid.

For the 2022-2024 term, Eversource may implement demand-side managed charging strategies to incentivize customers to charge their electric vehicles during off-peak times. These strategies could potentially include:

- **Throttling.** This managed charging strategy will allow Eversource to send a signal to a networked level 2 charger to limit the instantaneous draw of power of the charger for a predefined period of time. A typical residential level 2 charger has a normal power draw of 7 kW. During a throttling demand management event, the Company could throttle down (decrease) the rate of charging from 7 kW to 0 or 1.8 kW for a period of time (typically 2-4 hours).
- **Scheduling.** This strategy is where a schedule is pushed to the electric vehicle charger, informing the device when it should start charging. Eversource could set a schedule that only allows for off-peak charging while allowing customers to opt out of the schedule if they have an emergency. Eversource would also stagger the scheduled charging times so that customers are not all brought back online simultaneously.

#### Natural Gas Demand Reduction Programs

Currently, Eversource is conducting a natural gas demand reduction pilot in Massachusetts. For the 2022-2024 term, Eversource may potentially offer natural gas demand response programs based on the results of the Massachusetts pilot.

#### *United Illuminating Programs*

##### Smart Savers Rewards (Bring Your Own Thermostat)

Since 2018, United Illuminating has successfully implemented the Smart Savers Rewards program. This direct load control offering supports electric system reliability and includes a subprogram—BYOT—which allows residential and small business customers to enroll their own connected smart thermostat. The BYOT offering allows United Illuminating to have remote controllability of a customer's HVAC system via a connected smart thermostat. This allows United Illuminating to establish temperature-set points (shift thermostats up to 4 degrees from the current temperature) and schedules (up to 2 hours) while engaging customers to better understand and control their energy usage. United Illuminating can call up to 15 BYOT events per summer and once the event is over, the smart thermostat will return to its normal set point and/or

schedule. Participants can opt out of a thermostat adjustment at any time from their mobile device, web browser, or thermostat.

Through the Summer Savers Rewards program's flat-rate participation incentive structure, participants receive a \$35 Amazon e-gift card per device once enrolled in the BYOT program and receive another \$25 e-gift card per device at the end of each summer season for participating. Once enrolled, power reduction during demand response events is initiated by United Illuminating and through a third-party Demand Response Management System (DRMS).

#### Wi-Fi Enabled Heat Pump Water Heaters

United Illuminating began conducting its Wi-Fi Enabled Heat Pump Water Heater pilot in 2018. Since the start of the pilot, United Illuminating has held eight demand response events, three in the summer of 2018 and five in the summer of 2019. In addition, United Illuminating held five demand response events during the winter of 2018–2019. Initial results to date have yielded some interesting findings; however, more enrolled customers and events are needed to better understand the market and provide statistically valid demand response results. The Wi-Fi Enabled Heat Pump Water Heater pilot will continue in 2021.

Overall, demand reductions have been relatively low, and it is assumed that this is related to the highly efficient nature of heat pump water heaters. Winter event reductions have been greater and average 88 watts per demand response event hour, while summer event reductions are lower with an average 51 watts per demand response event hour. Heat pump water heaters are also a non-weather dependent measure with a typical load curve that show no daily consistency, thus making it extremely difficult to target peak usage times of the day. United Illuminating will continue to increase the number of heat pump water heater units through the co-delivery of existing efforts to this Demand Reduction program.

In 2021, United Illuminating will also look to deploy different demand reduction strategies to increase demand response event reductions beyond the current demand response strategy that is set by the heat pump water heater manufacturer called "Eco Mode". Other creative demand reduction strategies such as load shifting, temperature setbacks, or even powering the unit off for a two-hour event hold the potential for greater reductions with minimal customer impact. United Illuminating will continue to call events to better understand the market and its demand response potential.

#### *CNG and SCG Demand Response Programs (Natural Gas)*

During the 2021 program year, CNG and SCG launched several natural gas demand response pilots designed to better understand natural gas demand reduction potential and customer receptiveness to creative and innovative natural gas demand reduction strategies. These pilots assessed the feasibility of incentivizing residential customers to provide net reductions of natural gas demand during peak gas demand days on the coldest days of the winter.

#### Residential Natural Gas Demand Response Pilots

In 2021, CNG and SCG will launch the following two Residential Natural Gas Active Demand Response pilots utilizing their current Residential Energy Hub DRMS to initiate demand response events and calculate baseline usage, event reductions, and incentives earned by each participant.

##### *Residential system load balancing (natural gas)*

CNG and SCG will continue to offer the Residential System Load Balancing program in the 2022-2024 term. The program incentivizes CNG and SCG Rate RSH (Residential Heating) customers to provide natural gas reductions on the coldest day

of the year. During an event, a customer's thermostat is setback by 4 degrees (with a preheat of 2 degrees for one hour prior). Customers receive an enrollment incentive plus an end-of-winter season incentive based on performance (deductions from the incentive will be made for each opt-out event). CNG and SCG will typically call one event per season on days when the outside average daily temperature is forecasted at 18°F or below. The length of the active demand response event will be 24 hours. For the comfort and safety of the customer, temperature set points cannot go below 60°F. CNG and SCG will evaluate the results of the Residential System Load Balancing program with those of the Residential Direct Load Control program to determine the differences between the two approaches and what is optimal for future implementation.

The System Load Balancing pilot incentivizes CNG and SCG Rate RSH customers within specific low-pressure areas to provide net reductions of natural gas demand during a 24-hour period on a peak natural gas demand day. The objective of the program is to address natural gas distribution system constraints. The pilot is marketed to residential natural gas customers in targeted areas and participating customers receive a coupon code for a free smart thermostat available through the UI Marketplace.

Participating customers are responsible for the installation of the smart thermostat and do not have the ability to opt-out of any demand response events. Participants earn an end-of-winter-season incentive for their participation. One event is called per season. This event is typically called on a day when the outside average daily temperature is forecasted at 18°F or below. The length of the active demand response event is 24 hours (a full day) lasting from 10 a.m. to 10 a.m. on the following day. During an event, a customer's thermostat is setback by 4 degrees for 24 hours. For the comfort and safety of the customer, temperature set points cannot go below 60°F.

#### *Residential direct load control (natural gas)*

The Residential Direct Load Control offering is similar to the BYOT program. A customer installs a thermostat of their choice, dispatch events are called, and United Illuminating and/or program implementation vendor control the thermostat settings during dispatch event. The program offers both an enrollment incentive, as well as an end-of-the-winter incentive for customers who participate in and do not opt-out of demand response events. For the 2022-2024 term, CNG and SCG will continue to cross-promote the program through the UI Marketplace. Eligibility requirements and guidelines are automatically checked prior to allowing customers to enroll in the program.

CNG and SCG Rate RSH customers are incentivized to provide net reductions of natural gas demand during a two-to-four-hour period during a peak natural gas demand day. This offering's strategy is similar to the Smart Savers Rewards program offered to United Illuminating's electric customers. The Direct Load Control pilot is opt-in and targets residential natural gas customers with smart thermostats. The Direct Load Control pilot allows CNG and SCG to have remote controllability of a customer's natural gas heating system via connected smart thermostat. During an event, a customer's thermostat is setback by 3 degrees (with a preheat of 2 degrees for one hour prior). Customers receive an enrollment incentive plus an end-of-winter season incentive based on performance (deductions from the incentive will be made for each opt-out event). CNG and SCG will typically call up to six events per season on days when the outside average daily temperature is forecasted at 18°F or below. The average length of the active demand response event will be 2 to 4 hours.

## SECTION THREE: COMMERCIAL & INDUSTRIAL PORTFOLIO

### 3.1 OVERVIEW

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For over two decades, the Companies have delivered innovative and cost-effective energy efficiency programs to commercial, industrial, and municipal customers across Connecticut. The Companies' C&I Portfolio is nationally recognized by the EPA, DOE, and the ACEEE for its innovative energy efficiency and demand management programs and initiatives. The Companies are also known for tailoring their offerings to market segments (e.g., grocery stores, manufacturers, restaurants, and retail stores) and types of customers (e.g., industrial, municipal, microbusiness, large commercial enterprise, and small business). This individualized or "customer-centric" approach allows the Companies to better understand the market actions, technical support, energy-efficient equipment, process improvements, and financing options required to meet an individual customer's business and energy needs, as well as to identify the needs of their market segment. The Companies plan to continue using market segmentation to tailor energy efficiency and demand management solutions to C&I customers for the 2022-2024 term.

Energy efficiency and demand management programs reduce energy costs and make business operations more affordable, as well as the ancillary benefits of improved facility operations and productivity, and increased health and safety standards. The reduction in energy consumption also results in the decrease of greenhouse gas emissions and offsets the need for fossil-fueled generation, something shareholders, boards of directors, citizens, and regulators value and demand of C&I customers to effectively mitigate the increasingly visible effects of climate change worldwide.

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#### 3.1.1 Plans for the 2022-2024 Term

During the two previous three-year terms, the Companies have been gradually shifting their incentive structures and technical support away from basic energy-efficient lighting projects to supporting comprehensive projects pairing multiple energy-efficient measures together. A comprehensive project could include: (1) pairing the installation of energy-efficient lighting with commercial kitchen equipment, or (2) combining the installation of high-efficiency HVAC equipment and controls with demand response technologies, or (3) pairing building energy management system upgrades with lighting controls. This shift was catalyzed by the increasing market penetration of high-efficiency lighting in the C&I sector, the Companies' increased knowledge regarding market segments and how C&I customers consume energy, and the need to address customers' energy-related needs more comprehensively and drive deeper energy savings.

In the 2019-2021 term, these catalysts resulted in the expansion of active demand response offerings to C&I customers, enhanced market channel offerings supporting more upstream and midstream incentives, increased workforce development efforts for C&I contractors and trade allies, a renewed focus on lighting controls and design, the introduction of strategic energy management initiatives, and a redesign in 2021 of the new construction, renovations, and equipment offering to drive the marketplace toward zero-energy buildings with low energy-use intensity ratings.

For the 2022-2024 term, the Companies remain focused on having commercial, industrial, and municipal customers install multiple measures and whole-building performance projects that influence decarbonization of the electric grid, increase energy affordability, and deliver energy savings in an equitable manner across all types of C&I customers and market segments. The Companies will increase their efforts to drive energy efficiency in the commercial building sector through an enhanced C&I weatherization effort. For the commercial building sector, weatherization measures (e.g., air sealing,

insulation) will provide energy and cost savings for C&I customers. Additionally, increased weatherization will prepare customers for the installation of high-efficiency, low-carbon space and water heating technologies, such as heat pumps. The Companies will support the increased adoption of low-carbon HVAC and water heating technologies through collaborative channel partnerships, higher incentives, and the continued use and expansion of their online training platform. This platform, launched during the 2021 program year, is designed to train and certify contractors regarding these technologies.

Through the Small Business Energy Advantage program, the Companies will continue to offer virtual, energy pre-assessments to support the installation of efficiency measures. This innovative offering, introduced during the pandemic, helps small commercial enterprises and microbusinesses lower their energy costs through virtual assessments where qualified contractors identify energy-saving opportunities and work with the customer to install them. For the 2022-2024 term, the Companies will also introduce two new program offerings: (1) the Small Manufacturer Initiative and (2) the Benchmarking Initiative.

For the upcoming three-year term, the Companies will look to offer increased financing options allowing business customers to make long-term energy efficiency investments that provide immediate energy savings with little to no upfront capital costs. The Companies will also continue to offer increased financial assistance to customers to motivate them to make long-term, strategic energy efficiency choices.

The C&I Portfolio supports a large workforce of skilled contractors and professionals who are essential in helping the Companies meet their program goals. These workers include architects, engineers, builders, energy auditors, as well as product distributors of high-efficiency commercial kitchen equipment, HVAC equipment and systems, lighting and energy management controls, and active demand response technologies. The C&I marketplace is constantly evolving and this change necessitates the expansion of contractor training efforts, field staff training that includes soft skills, technical training and certifications, and an increased push to include workers who reflect the diversity of the communities they serve. The Companies' workforce development efforts (detailed in Section 4) are designed to support the needs of the current and future energy efficiency workforce in Connecticut.

For the upcoming term, the Companies have designed a C&I Portfolio capable of rapidly changing to meet customer demands, federal and local regulations, emerging technologies, energy code modifications, and changes to state energy policy. The rest of Section 3 details the key priorities, themes, and designs of the C&I Portfolio's programs and initiatives for the upcoming term.

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### 3.1.2 Commercial & Industrial Programs

For the 2022-2024 term, the Companies will continue to deliver a comprehensive C&I Portfolio to commercial and industrial market segments, including new construction, retrofit and renovation, small and medium commercial enterprises, microbusinesses, municipalities, and manufacturers. The Companies have designed their programs to be versatile and address C&I customers' energy needs comprehensively. From an antique store on Main Street to a town hall complex, the Companies' programs help all C&I customers reduce their energy costs, reduce and manage their peak demand, decrease greenhouse gas emissions, and help meet their corporate or municipal sustainability goals.

The 2022-2024 C&I Portfolio programs and initiatives are:

**Figure 3-A: C&I Portfolio Offerings**



- New Construction, Equipment Replacement & Major Renovations.** The Energy Conscious Blueprint program targets all commercial new construction, remodeling, renovation, and expansion projects in Connecticut, as well as end-of-life equipment replacement purchases. The Companies offer midstream rebates for HVAC and commercial kitchen equipment through the Energy Conscious Blueprint program. The objective of this offering is to influence the stocking and selling practices of distributors. By offering instant discounts at the point of sale, the Companies can tip the financial scales in favor of energy-efficient options, leading distributors to change what they stock and sell, and contractor purchases which benefit the customer. The Companies offer four pathways to cost effectively exceed performance of building code and to achieve zero net energy.
- Retrofit Services.** This umbrella initiative includes retrofit offerings and provides an extensive array of retrofit measures, energy-efficient incentives, and some ancillary technical services to encourage business and municipal building owners to replace functioning, yet efficient equipment with premium-efficiency equipment. This includes the Energy Opportunities retrofit program, the new Benchmarking Initiative, and Eversource's medium-sized businesses offering. The Companies offer upstream incentives for lighting measures through the Energy Opportunities program.
- Business and Energy Sustainability.** This sustainable services platform focuses on helping customers make continuous improvements in the day-to-day operations of their business and/or facility resulting in reduced greenhouse gas emissions and increased cost savings. Participation in this platform's offerings help companies become more competitive, reduces operational and maintenance costs, streamlines manufacturing and industrial processes, and helps organizations meet their corporate sustainability goals. The platform includes several offerings to increase efficiencies for corporate, industrial, and manufacturing customers, including Strategic Energy Management, Retro-commissioning, Energy Utilization Assessments, and Process Reengineering for Increased Manufacturing Efficiency (PRIME).
- Small Business.** This is the Companies' flagship program for small commercial enterprises and microbusinesses who may not have the in-house experience, financial resources, and time necessary to analyze and reduce their energy consumption. The program offers turn-key energy efficiency services, incentives, and on-bill financing to help small business customers reduce their energy consumption and reduce operations and maintenance costs. This includes the medium-sized business offering (Eversource only), the Microbusiness Initiative, and the new Small Manufacturer Initiative.

- **Demand Management.** The Companies provide incentives to customers who enroll their devices (e.g., smart thermostats, HVAC equipment, electric vehicle chargers) into active demand response offerings that promote a decrease in energy consumption during periods of electric system peak demand. These offerings include electric vehicle chargers, batteries, and connected solutions.

### 3.1.3 Key Priorities and Themes

#### Priority 1: Equity

Equity is defined as the process of establishing more equal access to and participation in energy efficiency and demand management programs, particularly among those groups who have historically participated at lower rates, including small business and microbusiness customers. The first step in reducing inequities in energy efficiency is understanding where they exist. Across all market segments, the Companies are working to increase participation by researching and deploying the most effective strategies to engage and motivate the above-referenced customer groups.

The Companies will implement the following strategies in the 2022-2024 term to increase equity:

- Introduction of new incentives that make energy efficiency more affordable to C&I customers.
- Streamline the verification process for enhanced incentives.
- Market in multiple languages to capture more of an audience.
- Include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.
- Increase diversity, equity, and inclusion training to ensure that Connecticut's energy efficiency workforce is as diverse as the communities and municipalities the workers serve. This includes the deployment of multilingual contractors.
- Identify customer barriers to participation using customer segmentation studies.

#### Identification of Customer Barriers

The Companies have conducted an analysis of customers by quartile and segment to understand what customers, segments, and quartiles have not participated in the C&I Portfolio and received lower contributions in the past five years. Within each market segment, the Companies looked at distressed municipalities, non-participants, and arrearage customers to determine if there was a correlation between customers on these lists. To determine the targeted quartiles and sectors, the Companies analyzed participation rates, fund contributions received, energy usage, annual kWh savings, and lifetime kWh savings.

The Companies also wanted to ensure equitable distribution of funds and the benefits derived from energy efficiency in developing the new C&I equity metric for the 2021 Plan Update to the 2019-2021 Plan. To meet the C&I equity metric, the Companies must generate an appropriate increase in energy efficiency savings for the targeted market segments. For the 2022-2024 term, the focus is on underserved customers and market segments to ensure equity across the entire C&I customer base. The Companies will target customers in one under-participating and lower contributions received market segment within each quartile. The Companies' plan is to provide a specific approach by sector. The goal is to serve enough

customers to increase program participation in the targeted market segment, as well as to increase funds received. As a result of the above evaluation, in 2021, the goals are to:

- Increase annual electric savings in Quartile 1 Healthcare sector by 4 percent.
- Increase annual electric savings in Quartile 2 Financial, Real Estate & Insurance sector by 3 percent.
- Increase annual electric savings in Quartile 3 Healthcare sector by 2 percent.
- Increase annual electric savings in Quartile 4 Retail sector by 0.44 percent.

The Companies will reevaluate targeted segments and goals on an annual basis based on DEEP's rulings in its Equitable Energy Efficiency proceeding, input and recommendations from the EEB's Diversity, Equity, and Inclusion (DEI) Consultant,<sup>83</sup> participation, energy savings, and contributions received. In the 2022-2024 term, the Companies will target equity improvements including addressing issues around race and language, and address contractors as well as customers.

## Priority 2: Decarbonization

Connecticut's communities, particularly those situated near or in the 600 miles of the state's coastline, are extremely vulnerable to the impacts of weather and climate events caused by the increase in carbon dioxide and other greenhouse gas emissions in the atmosphere due to anthropogenic activities. Connecticut businesses are already experiencing the effects of climate change and the need to build a more resilient commercial building sector less dependent on fossil-fuel generation and that consumes less energy is critical in helping the state meet its goals for reducing greenhouse gas emissions over the next few decades.

The Companies will implement the following strategies in the 2022-2024 term to increase decarbonization and electrification:

- Enhance weatherization effort for commercial and municipal buildings.
- Increase technical and financial support for low-carbon technologies in retrofit applications.
- Increase promotion of low-carbon space and water heating technologies in retrofit and new construction projects.
- Leverage manufacturer and distributor network to promote heat pumps and their benefits to customers and contractors.
- Increase general customer education and outreach as it pertains to heat pumps and their benefits.
- Expand focus on C&I systems such as variable refrigerant flow and ground source heat pumps.

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<sup>83</sup> DEEP in its Final Determination for the E3 Proceeding—Phase I Goals and Actions determined that Action Item 1.1 is to hire a Diversity, Equity, and Inclusion Consultant for the Energy Efficiency Board. See DEEP, E3 Proceeding-Phase I Goals Actions, Jul. 21, 2021, available online at: <https://portal.ct.gov/-/media/DEEP/energy/ConserLoadMgmt/Final-E3-Phase-I-Determination.pdf>.



- Expand active demand response offerings to support electrification and carbon neutrality, including smart thermostats, air conditioner cycling, lighting/dimming, solar photovoltaic and battery storage, industrial shutdowns, and electric vehicle chargers.

In January 2021, the GC3 released its Phase 1 report on near-term actions to address climate change, build a more resilient Connecticut, and to reduce greenhouse gas emissions. For the C&I Portfolio, the Companies have integrated several of the GC3's recommendations into their preparations for the 2022-2024 term, including an enhanced weatherization effort for commercial and municipal buildings and the promotion of low-carbon space and water heating technologies in retrofit and new construction projects. The Companies will use the same manufacturer and distributor channels used in the Residential Portfolio to promote heat pumps to C&I customers. The Companies will promote and finance heat pumps to small businesses through their existing trade ally network and vendors. Additionally, the Companies will apply the lessons learned from the 2021 heat pump pilot toward the program's implementation in the 2022-2024 Plan, including an expanded focus on C&I systems such as variable refrigerant flow and ground source heat pumps. The Companies will offer increased technical and financial support for low-carbon technologies in retrofit applications.

In the upcoming term, the Companies will also expand their active demand response offerings to support decarbonization and carbon neutrality, including smart thermostats, air conditioner cycling, lighting/dimming, solar photovoltaic and battery storage, industrial shutdowns, and electric vehicle chargers. More information regarding the Companies' active demand response offerings and priorities can be found in Section 3.7.1. Additional decarbonization strategies will include a renewed push for Zero Net Energy, Zero Net Energy Ready, and Passive House certifications for commercial new construction projects. The Companies will introduce packaged energy efficiency program offerings for all-electric new construction projects through the C&I Portfolio. During the 2022-2024 term, the Companies will also begin to align the Energy Conscious Blueprint (new construction and major renovations program) with the DOE's Grid Interactive Efficient Building initiative and research and identify opportunities to integrate battery storage and distributed renewable energy technologies to displace carbon emissions. These initiatives are further discussed in Section 3.2.

### Priority 3: Energy Affordability

The C&I Portfolio promotes economic development through lower energy bills, enhanced energy security, and increased reliability. For the 2022-2024 term, the Companies are focused on reaching more C&I customers to make them aware of, and to participate in, energy efficiency and active demand response programs. Energy affordability is a major concern for businesses, particularly micro-businesses and small commercial enterprises. By participating in the C&I Portfolio's offerings, businesses can save energy and money which helps them reduce operational costs and focus on maintaining their competitive niche in the marketplace.

Many businesses struggle to maintain their profitability, pay competitive wages, sustain staffing levels, and keep production lines running. These struggles were exasperated by the pandemic in 2020, requiring the Companies to work extensively to create innovative solutions that allowed them to drive energy savings, improve facility operations, and reduce energy bills. When less dollars are directed toward energy bills, this means that businesses have more money to invest in new products and services or hire additional staff. This in turn promotes economic development for the state and the Northeast region. Investment in energy efficiency strengthens the economy and makes businesses viable.

To make energy more affordable for C&I customers, the Companies will implement the following strategies in the 2022-2024 term:

- Enhance promotion of existing loan products and increase financing options to C&I customers to support long-term energy efficiency investments that provide immediate energy savings with little to no upfront capital costs
- Enhance affordability and equal access to program offerings.
- Continue to offer virtual, pre-assessments through the Small Business Energy Advantage program to support the installation of electric and natural gas energy efficiency and active demand response programs.
- Through the Microbusiness Initiative, offer a simplified program for customers to make participation and the adoption of comprehensive measures easier.
- Conduct additional education and outreach to businesses to increase participation in energy efficiency and active demand response across market segments and customer classes.
- Promote comprehensive energy efficiency measures so C&I customers can reinvest energy savings into employees, new production lines, services and implementing further operational efficiencies.

### Other Goals

#### Workforce Development

For the upcoming term, the Companies will continue to focus resources and technical support to promote clean energy workforce development in the state and region. Planned C&I trainings will include topics such as HVAC technologies and controls, refrigeration equipment and controls, demand reduction strategies, emerging technologies, advanced lighting and controls, whole building design, code-plus initiatives, and salesforce training.

In addition to specific measure or process trainings, the Companies will also implement workforce development trainings that focus on specific segments, such as agriculture and industrial processes (e.g., compressed air, steam, pumps). Details regarding specific trainings are discussed in Section 4 of this Plan.

#### Co-delivery of Energy Efficiency and Active Demand Response Programs

There are several benefits of integrating the Companies' energy efficiency and demand response offerings including increased utility bill savings through demand management, reduced energy use, total utility cost reduction through active demand response incentives, increased program participation and satisfaction, and increased ease of participation through a single, clear program entry point or enrollment process. Additionally, there are fewer power outages and lower program costs.<sup>84</sup> Currently, the Companies offer a "Level 2"<sup>85</sup> integration of energy efficiency and active demand response programs. For the 2022-2024 term, the Companies will explore other degrees of integration for the co-delivery of energy efficiency and active demand response offerings to transition into providing a single combined program or "Level 4."

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<sup>84</sup> York, D., Relf, G., and Waters, C. 2019. *Integrated Energy Efficiency and Demand Response Programs*. DC, American Council for an Energy-Efficient Economy.

<sup>85</sup> See York (2019), there are four levels of energy efficiency and demand reduction integration: Level 1 – recognition of energy efficiency or demand reduction capabilities, Level 2 – cross promotion, Level 3 – administrative coordination, and Level 4 – single program.

### Transition from Lighting to Non-Lighting Savings

In the 2022-2024 term, the Companies will focus on the growth of network and the increased adoption of luminaire level lighting controls. In addition, the Companies will provide building energy efficiency offerings compatible with post-pandemic practices, such as remote audits or VPAs. As noted earlier in this section, the Companies will also target other non-lighting savings opportunities through HVAC equipment and controls, retro-commissioning, weatherization, process improvements, refrigeration measures, and strategic energy management.

### Heat Pump Contractor Education & Training

In support of the state's goals for reducing greenhouse gas emission reductions and the GC3's recommendations from their Phase 1 report, the Companies will look to reduce greenhouse gas emissions from the building sector by promoting high-efficiency, low-carbon space and water heating technologies, such as heat pumps and heat pump water heaters. In 2020, the Companies, in partnership with other efficiency program administrators and utilities, developed a comprehensive state and regional heat pump training strategy for contractors. The purpose of this strategy is to drive adoption from the supply chain to the contractor to the end user.

For the upcoming term, the Companies will continue to work with other regional program administrators to maintain a regional QPL for heat pumps. This regional QPL was established to standardize the efficiency and qualifying criteria for air source heat pump technologies installed in Connecticut and in multiple states throughout the Northeast region. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. Additionally, the Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

During the 2022-2024 term, the Companies will continue to implement the comprehensive heat pump training strategy to ensure that C&I contractors understand how to sell, install, and service heat pump systems. The Companies' strategy to increase awareness, educate, and ensure proper installation is to reach HVAC and other contractors using various channels and paths. The two main pathways identified are online learning resources and collaborative channel partnership trainings.

#### *Online learning resources*

The Companies have developed an online Learning Center to educate the contractor community about heat pump technologies. The online training resources allow contractors to take classes and educate themselves based on their interests, schedule, and availability. The feedback from the HVAC community has been positive and the Learning Center is recognized as a resource that will be used. During the upcoming term, the Companies will leverage existing vendor contracts and online resources to adapt the training to the needs of Connecticut's marketplace. Some current courses include:

- *Air Conditioner and Heat Pump High-Performance Tune-Up.* This course provides technical training to help residential and commercial diagnostic tune-ups meet specifications. The tune-up process focuses on non-capacity verification.

- *HVAC Equipment Energy Usage: Charge Levels Refrigerant Leaks.* This training details the topics of subcooling, superheat, and system design considerations according to Manual J using an interactive HVAC simulation to effectively illustrate these points.
- *HVAC Equipment Energy Usage: Obstructed Air Flow-Condenser or Filter.* This course provides an analysis of both indoor and outdoor airflow, associated tool usage, and a general discussion related to SEER using an interactive HVAC simulation to highlight these points.
- *measureQuick Start to Finish.* This course trains participants on how to use measureQuick to calculate the airflow, measure total/sensible/latent capacity, and determine the efficiency of heat pumps.
- *Measuring Air Distribution.* This training explains airflow, how HVAC systems are designed and configured to deliver the correct amount of air to each room of a building, how to accurately measure airflow, and how to address common air distribution problems.

#### *Collaborative channel partnership trainings*

The Companies understand that they need to leverage the capabilities and resources of manufacturers to increase the number of low-carbon space and water heating technologies installed in the C&I sector. For the 2022-2024 term, the Companies' internal teams will work closely with global manufacturers to allow for a stronger go-to-market strategy that benefits from the supply chain's resources, such as existing trainings and certifications. By creating collaborative channel partnerships, the Companies can leverage the knowledge of experts and build on existing resources rather than starting from nothing.

In the 2022-2024 term, the Companies will work with manufacturers and distributors to leverage their education and training efforts to support the purchase and installation of more high-efficiency HVAC and water heating equipment across the state. Many of the larger heat pump manufacturers have robust contractor networks that are based on contractor experience and their completion of manufacturer-led trainings. For the 2022-2024 term, the Companies have a two-fold approach to collaborating with heat pump manufacturers:

- Work with manufacturer partners to identify contractors (in Connecticut and New England) who have successfully completed heat pump installation trainings and engage these firms through program support, and
- Encourage untrained contractors to attend and complete manufacturer-led heat pump trainings to broaden the base of qualified installers.

This work already began in the 2019-2021 term through the development of the Air Source Heat Pump Working Group. This group includes regional manufacturer representatives from major heat pump manufacturing companies.

#### Customer Education

The Companies' two primary goals for consumer education are: 1) awareness of heat pumps as a heating and cooling option, and 2) confidence in heat pump technology performance. The Companies plan to leverage industry efforts, working with manufacturers to co-brand manufacturer-created educational materials, when warranted. For the 2022-2024 term, the Companies will continue to develop and enhance customer-facing content regarding the basics and

benefits of heat pump technologies. The site will include engaging animation that depicts how the technology works. The Companies have previously used animated graphics to create engaging experiences for consumers and stakeholders.<sup>86</sup>

The Companies plan to conduct ongoing “pulse” surveys to better understand and track customer awareness and perceptions of heat pump technologies. In the upcoming term, the Companies will focus on prioritizing marketing tactics that promote the benefits of heat pump technologies and simplifying customer-facing messaging and terminology. The Companies will also refresh the EnergizeCT.com website and create an “All Things Heat Pumps” webpage. Additionally, the Companies will develop customer-facing online tools, such as a contractor locator to direct customers to qualified heat pump installers. These online tools will help educate customers regarding the benefits of heat pumps, current incentives, and also help interested businesses and municipalities in locating qualified contractors.

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#### 3.1.4 Process for Continued Improvement

In the 2022-2024 term, the Companies will streamline and simplify contracts with customers. This includes the alignment of contracts between individual Companies when there are different Electric and Natural Gas Companies for the same project. The Companies will also explore changing definitions such that follow-on projects completed within one year will be considered comprehensive due to earlier energy-saving projects. This will encourage more customers to participate in comprehensive energy-saving projects. In addition, the Companies will continue to pilot and assess innovative approaches to program design, incentives, and offerings.

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#### 3.1.5 Codes and Standards

For the 2022-2024 term, the Companies will provide the following support for codes and standards in the C&I sector: (1) provide compliance support for base and stretch code and (2) provide stretch code development support. Figure 3-B below details the schedule of code compliance and the Companies’ planned activities.

To provide compliance support for base and stretch code, the Companies will collaborate with architects, local builders, contractors, and building enforcement officials to increase the number of buildings complying with the locally applicable energy code. The Companies will implement a series of code trainings, as well as outreach and technical support in the form of circuit riders, compliance documentation tool development, and review support.<sup>87</sup> These significant code training efforts should improve compliance with the 2021 IECC and mitigate the drop in code compliance which typically occurs with large code changes.

In the upcoming term, the Companies will provide technical and program support in the development of any stretch codes adopted by a local government. During the 2021 legislative session, the Connecticut General Assembly advanced stretch code legislation (HB 6572) out of committee.<sup>88</sup> The legislation proposed that municipalities would be allowed to establish a requirement that new or substantially renovated buildings over 40,000 square feet must demonstrate that they use at least 10 percent per square foot less energy than maximum levels permitted under the state building code. If

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<sup>86</sup> The Companies created animated graphics for the Energy Education program (*see Section Four of this Plan*) and the Energy Efficiency Board’s Annual Legislative Report.

<sup>87</sup> Circuit riders are experts who meet with targeted groups of market actors (in this instance the new construction community) to address their specific needs and issues, enhance their knowledge, provide technical assistance, and modify their practices.

<sup>88</sup> HB 6572 was advanced out of committee but was tabled as the 2021 legislative session ended prior to coming to a vote before the entire Connecticut General Assembly. Proposed legislation is available online at:

[https://www.cga.ct.gov/asp/cgabillstatus/cgabillstatus.asp?selBillType=Bill&bill\\_num=HB6572&which\\_year=2021](https://www.cga.ct.gov/asp/cgabillstatus/cgabillstatus.asp?selBillType=Bill&bill_num=HB6572&which_year=2021).

HB 6572, or a similar code stretch bill, does become law during the 2022-2024 term, then the Companies will provide technical and program support to participating municipalities.

**Figure 3-B: Schedule of Code Compliance & Activities**

Code/Implementation Timeline	2021				2022				2023				2024				2025			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2021 CT State Building Code (Oct 2022)																				
Training/support on new code					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Expected: 2022 CT Building Code									■											
Residential buildings built to code													■	■	■	■	■	■	■	■
C&I buildings built to code													■	■	■	■	■	■	■	■

### 3.1.6 Incentives and Financing

#### *Incentives*

The Companies use incentives to motivate customers to implement comprehensive energy efficiency and demand management measures when replacing failed equipment, constructing a new facility, making renovations to an existing building, and optimizing the efficiency of their business operations. A well-designed incentive will be attractive to induce a customer to install energy-efficient equipment or implement a process that saves energy; however, it should not reduce the program's cost effectiveness.

The Companies must design incentives to reflect the customer's purchasing decisions. For example, the Companies can design smaller incentives for new construction, renovations, or for when an existing piece of equipment fails, because the customer has already made their purchasing decision, independent of the energy efficiency benefits. A reasonable incentive that covers the incremental cost of installing an efficient unit rather than a standard piece of equipment should be sufficient.

The Companies utilize an array of incentives to motivate customers to purchase energy-efficient equipment. Some common incentive types used include:

- Midstream incentives.** Midstream rebates are incentives given to distributors to encourage the stocking and promotion of high volume, standard energy-efficient equipment, such as LEDs in their warehouses. Contractors will be motivated to purchase the energy-efficient equipment as it is fully stocked and similarly priced to standard equipment. The Companies' goal in establishing midstream incentives is to eliminate the price barrier between standard and highly-efficient equipment. The Companies are constantly reviewing the need to add new products and whether revisions are needed due to market conditions. Additionally, stocking behaviors and workforce development opportunities must be maximized in order to continue to aid the market in its evolution to best uses.
- Unit incentives and rebates.** These are pre-determined prescriptive incentives for common energy-efficient technologies where energy savings are easily quantified in a variety of standard applications and circumstances. Unit incentives and rebates are meant primarily for smaller projects where a customer can quickly and easily

identify a piece of standard equipment (e.g., HVAC units or lighting fixtures) and compare it to a high-efficiency alternative.

- **Incremental cost incentives.** This incentive is designed to pay some of the incremental costs associated with upgrading from standard-efficiency to premium-efficiency equipment. This incentive is designed to entice the customer away from standard-efficiency (defined as the minimum efficiency needed to meet building code requirements) or improve above baseline when code does not apply or baseline practice is above code. Typically, incremental cost incentives are used in new construction or “lost opportunity” equipment placement projects where a customer’s older equipment fails and is being replaced, or when existing equipment is near the end of its useful lifetime and the customer is planning for a replacement.
- **Whole building incentives.** These incentives are typically used for new construction and major renovation projects to reward high-performance energy-efficient designs and construction. The Companies use a tiered-incentive approach where the incentive increases the more efficient the design and resulting construction is relative to building code.
- **Design incentives.** These incentives are available for design teams to compensate them for some of the additional costs associated with running multiple building simulations. Building simulations, or energy models, are used by design teams to systematically evaluate multiple energy-efficient measures and designs. The energy models assist builders and designers in evaluating a new construction or major renovation project holistically and in determining the interactive effects of various pieces of energy-efficient equipment together. Design incentives are used to motivate design teams to maximize energy efficiency in new buildings and to ensure that energy-efficient design and equipment survive the value-engineering process.
- **Technical study costs.** This incentive subsidizes the customer for costs when performing studies to evaluate energy efficiency opportunities, such as compressed-air system evaluations, and focused studies on high-consumption electrical or natural gas equipment. Typically, the C&I customer and the Companies will agree that a study would help explore and identify opportunities for cost-effective measures.
- **Tiered incentives.** Incentives will be structured to encourage comprehensiveness in energy efficiency projects. The goal of providing a tiered incentive is to help customers capture energy savings from all identified energy-saving measures within a phased implementation. The Companies plan to continue to encourage comprehensiveness throughout the C&I Portfolio with the use of tiered incentive structures to promote multi-measure and multi-end use comprehensive projects. On a periodic and ongoing basis, the Companies evaluate their tiered incentive structure for effectiveness.
- **Multi-year energy-saving agreements.** For the 2022-2024 term, the Companies will continue to support select customers in multi-year energy saving agreements. As these agreements involve all implementable and cost-effective energy projects over the agreement period, the Companies structure their commitments in a manner that helps that customer overcome its barriers.

### *Financing*

The Companies continue to collaborate with private third-party vendors and the CT Green Bank to reintroduce recapitalization strategies that leverage private capital and that also extend lean term limits for local and state government customers to further encourage comprehensiveness in energy efficiency projects. For the 2022-2024 term, the Companies will continue working with third-party providers and the CT Green Bank to offer joint financing programs, such as C-PACE loans and energy storage. Eversource will extend the SBEA financing process through the 2022-2024 Plan.

This is the financing approved by the EEB and DEEP to allow Eversource to sell energy efficiency loans to third-party lenders (including the CT Green Bank) to reduce the Conservation & Load Management interest expenses and leverage third-party capital (see Section 3.5). In 2021, the Companies issued a Request for Proposal for new C&I financing partners. The new financing offerings will take effect in the 2022-2024 term.

**Figure 3-C: 2022-2024 C&I Financing Solutions**

Financing Product	Loan Limits	Terms	Interest Rate	Funding Source
Small Business & Municipal Loan	On-Bill <ul style="list-style-type: none"> <li>• \$500 to \$100,000 (on-bill repayment for electric and natural gas measures)</li> <li>• \$1,000,000 per municipality and/or State project (Eversource)</li> <li>• \$500,000 per municipality/United Illuminating</li> <li>• \$250,000 per State agency (United Illuminating)</li> </ul>	Max. 48 months	0% for cap of \$100,000, above \$100,000 (market rate)  Municipal & State Loans 0%	Energy Efficiency Fund, Utility Capital, and third-party providers
Business Energy Advantage (Eversource only)	On-Bill: \$500 to 100,000 (on-bill repayment for electric and natural gas measures)	Max. 48 months	0% for \$100,000 (through reduced incentive), above \$100,000 market rates	
Commercial & Industrial Loan	\$2,000 to \$1,000,000	Max. 60 months	Low-interest rates up to \$100,000 (market rates above \$100,000)	Third-party provider
C-PACE	For energy improvements \$30,000 and above	5 to 25 years	5% to 5.99%	Third-party provider
PURA Loan	\$1,000,000 and over	Max. 120 months	1% below customer's eligible rate or prime rate	Electric ratepayers (funding through Federally Mandated Congestion Charges)
CT Hospital Association Trust.	Varies	5 to 7 years	0%	Eversource Grant (Self-Funding)

### 3.1.7 Performance Management Incentive Metrics

As discussed in Section 1.7, the Companies earn an annual performance management incentive for managing Connecticut's energy efficiency and demand management programs and budgets. The incentive is tied to program specific-oriented metrics, such as energy savings and net economic benefits. Performance management incentives are typically based on a percentage of energy efficiency program costs and this percentage varies dependent on if goals and/or targets are met or exceeded. For the 2022-2024 term, the Companies have developed energy and demand savings metrics for measuring the success of the C&I Portfolio's programs and initiatives. The Companies will earn a performance management incentive for meeting the following program specific-oriented secondary metrics:



**Figure 3-D: 2022-2024 C&I Performance Management Incentive (Secondary Metrics)**

Program	Incentive Metric	Description
<b>Electric</b>		
Energy Opportunities	Continue to promote comprehensive projects	Companies must develop and implement comprehensive offerings that consist of a tailored combination of measure and service bundles, and technical assistance for strategic energy management and benchmarking
Energy Conscious Blueprint	Continue to advance projects that are more efficient than the State Energy Code	This metric increases the number of new construction/major renovation projects that are more efficient than the State Energy Code and are 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero
Small Business Energy Advantage	Continue to promote comprehensive projects	Companies must develop and implement comprehensive offerings that consist of a tailored combination of measure and service bundles, and technical assistance for strategic energy management and benchmarking
Equitable Distribution	Increase the equitable distribution of savings across all customer quartiles	This metric is designed to increase savings from customers in the Quartile 1 Healthcare sector, the Quartile 2 Financial, Real Estate & Insurance sector, the Quartile 3 Healthcare sector, and the Quartile 4 Retail sector (relative to the baseline average). Quartiles may change over term
Strategic Energy Management	Promote Strategic Energy Management Initiatives	This metric is designed to engage companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each Company's savings a minimum of 25 annual MWh
<b>Natural Gas</b>		
Energy Opportunities and Energy Conscious Blueprint	Continue to promote comprehensive projects	Companies must develop and implement comprehensive offerings that consist of a tailored combination of measure and service bundles, and technical assistance for strategic energy management and benchmarking
Small Business Energy Advantage	Continue to promote comprehensive projects	Companies must develop and implement comprehensive offerings that consist of a tailored combination of measure and service bundles

### 3.2 NEW CONSTRUCTION, MAJOR RENOVATIONS & EQUIPMENT REPLACEMENT

For more than 20 years, the Energy Conscious Blueprint program has helped drive energy efficiency in the new construction, major renovations, and new equipment and equipment replacement marketplace. For the 2022-2024 term, the Companies remain committed to promoting the integration of energy efficiency, active demand response and renewable energy strategies, financing programs, and solutions into the program. Active demand response programs could include controls, automatic shades, thermal storage, or battery storage (freestanding or in electric vehicles). The Companies plan to engage more architects, engineers, and buildings during schematic and conceptual design phase to maximize energy efficiency and demand reduction planning into the building projects.

The following figure summarizes the Companies' projected energy savings, program costs, benefits, and cost-effectiveness for the Energy Conscious Blueprint program, including both electric and natural gas values.

**Figure 3-E: 2022-2024 Energy Conscious Blueprint (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Customers Served	802
Total Program Lifetime Savings, Electric (MWh)	1,137,069
Total Program Lifetime Savings, Natural Gas (ccf)	38,816,326
Total Program Lifetime Savings, Oil (Gal)	36,720
Total Program Lifetime Savings, Propane (Gal)	30,600
Total Program Lifetime Savings (MMBtu)	7,881,767
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	721,019
Total Program Lifetime Benefits (\$000)	\$233,729
Total Program Costs (\$000)	\$71,387

\*Please note that these are short tons.

### 3.2.1 Objectives & Target Market

In 2021, the Energy Conscious Blueprint program was redesigned as a transformative four-pathway offering to drive the new construction marketplace toward zero-energy buildings with low energy-use intensity (EUI) ratings. The Companies will continue to provide four pathways to cost effectively exceed energy code requirements during design and construction and to achieve zero net energy. The four-pathway offerings will include:

1. Net Zero Energy/Deep Energy Savings.
2. Whole Building with Energy Use Index Reductions.
3. Whole Buildings Streamlined.
4. Systems and Measures.

The Energy Conscious Blueprint program supports integrated design and whole-building energy modeling (BEM) at the feasibility phase and offers incentives for customers to incorporate energy reduction strategies through post occupancy. For the new construction market, the target market includes architects, designers, distributors, engineers, equipment specifiers, manufacturers, suppliers, commissioning agents, and the owners or developers of new buildings. In the equipment replacement market, key decision makers include building owners or managers, equipment supply houses, and facility staff. The Companies plan to continue to reduce barriers for adoption of emerging and traditional, high-efficiency building technologies by working with the appropriate parties to intervene and introduce energy efficiency in the planning phase. The Companies will create feedback loops to encourage continuous energy use improvement through monitoring of energy use indexes in new buildings.

### 3.2.2 2022-2024 Themes & Priorities

For the 2022-2024 term, the Energy Conscious Blueprint program's key themes and priorities include:

- Engage the design and construction community.

- Increase adoption of Zero Net Energy, Zero Net Energy Ready, and Passive House for commercial new construction projects.
- Drive and monitor low energy use intensity in commercial and municipal buildings.
- Support integration of renewable energy, grid interactive buildings, and active demand response programs.
- Provide packaged energy efficiency and active demand response program offerings for all-electric new construction projects.
- Work with the State of Connecticut to modify offerings for state/municipal projects in order to resolve existing funding cap for state-funded projects.
- Provide strategic support to major renovations occurring as a result of the post-pandemic economy and commercial real estate impacts. Work with industry guiding organizations (e.g., ASHRAE) in developing adjusted ventilation baselines.
- Prepare packaged offerings to streamline adoption for commonly-paired HVAC technologies such as variable refrigerant flow and dedicated outside air system.
- Reduce greenhouse gas emissions.
- Promote codes and standards compliance and training.

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### 3.2.3 Midstream Rebates

The Companies offer midstream rebates for HVAC and commercial kitchen equipment through the Energy Conscious Blueprint program. The objective of this offering is to influence the stocking and selling practices of distributors. By offering instant discounts at the point of sale, the Companies can tip the financial scales in favor of energy-efficient options, leading distributors to change what they stock and sell, and contractor purchases which benefit the customer. Since 2016, the Companies have demonstrated success in delivering midstream incentives through their Residential and C&I Portfolios. Midstream incentives alter the way retailers and distributors stock their shelves with energy-efficient products, help streamline the rebate process for the customer, and lower the processing costs for the Companies.

For the 2022-2024 term, the Companies will offer midstream incentives for commercial kitchen equipment, including freezers, fryers, griddles, and refrigerators. In addition, the Companies will continue to offer incentives for high-efficiency electric commercial HVAC products and high-efficiency natural gas HVAC equipment. The Companies will look to add more midstream products, such as heat pumps, natural gas measures, and additional HVAC and commercial kitchen equipment to their Midstream Rebates offering as warranted.

## 3.3 RETROFIT SERVICES (ENERGY OPPORTUNITIES)

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A major portion of the C&I Energy Efficiency Portfolio's energy savings comes from the Energy Opportunities program. Energy Opportunities is an umbrella retrofit initiative that provides incentives and ancillary technical services to encourage existing C&I building owners to replace functioning, but outdated and inefficient equipment with high efficiency units. As a result, the Companies continuously review incentive structures and delivery mechanisms to reflect new technologies, the changing marketplace, and economic conditions.

### 3.3.1 Objectives & Target Market

The Energy Opportunities program targets non-residential electric and natural gas customers on a firm rate. In addition to focusing on above mentioned specialized segments, the Companies will focus on equity and participation to increase participation of underrepresented market segments.

The Energy Opportunities program has three delivery mechanisms:

1. For large commercial, industrial, and municipal customers with electric usage greater than 5,000,000 kWh annually across all of their properties or customers of any size working outside of a qualified vendor network, the Companies primarily use their internal staff of technical experts and account managers, supplemented with third-party technical support, to work directly with customers to identify and deliver energy efficiency solutions. The customer can also use their own vendor for technical expertise and to implement energy conservation measures.
2. For medium-sized commercial, industrial, and municipal customers with electric usage between 1 million kWh and 5 million kWh annually across all of their properties, Eversource may deliver energy efficiency solutions through the medium-sized business offering, primarily a vendor-driven initiative. This initiative is discussed in detail in Section 3.3.3.
3. For small commercial, industrial, and municipal customers with electric consumption of up to 1 million kWh annually (special considerations for nonprofits and long-term care facilities), the Companies may deliver energy efficiency solutions through the Small Business Energy Advantage program, a vendor-driven initiative. The Companies will work closely with trade allies and associations and employ market actions designed for an individual customer's market segment. This initiative is discussed in detail in Section 3.5.

The following figure summarizes the Companies' projected energy savings, program costs, benefits, and cost effectiveness for the Energy Conscious Blueprint program, including both electric and natural gas values.

**Figure 3-F: 2022-2024 Energy Opportunities (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Customers Served	3,192
Total Program Lifetime Savings, Electric (MWh)	1,488,605
Total Program Lifetime Savings, Natural Gas (ccf)	29,736,213
Total Program Lifetime Savings, Oil (Gal)	73,008
Total Program Lifetime Savings, Propane (Gal)	65,403
Total Program Lifetime Savings (MMBtu)	8,155,075
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	781,473
Total Program Lifetime Benefits (\$000)	\$306,986
Total Program Costs (\$000)	\$139,920

*\*Please note that these are short tons.*

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### 3.3.2 Themes & Priorities

#### Decarbonization

The Companies will pursue the further adoption of the statewide decarbonization initiative by removing barriers and increasing the benefit to customers installing electric fuel heat pumps and investing in building envelope improvements. Changes to the comprehensive benefit structure (described later in this section) combined with efforts to expand relationships with heat pump suppliers and manufacturers as described in Section 3.6 will provide a framework that supports the installation of electric fueled heat pumps for customers participating in the Energy Opportunities program's offerings. Customers will have an increased selection of products and access additional benefits when they choose to pursue a heat pump installation while contemplating other building upgrades.

To expand the implementation of underutilized decarbonization measures, the Companies will connect with the workforce specializing in weatherization, refrigeration leaks, and industrial process equipment to identify and remove barriers to participation. The Companies will look to simplify submission requirements and increase training on application processes to encourage new vendors to participate.

During the 2019-2021 term, the Companies initiated an HVAC Modernization pilot to increase adoption rates of high-efficiency HVAC systems and equipment. In 2019, the Companies released a Request for Proposal for chillers and expanded the pilot in 2020 to include rooftop units and boiler systems. The bids submitted for these RFPs by C&I customers and contractors helped the Companies consider more insightful incentive strategies and to determine any significant impact to market elasticity and demand for HVAC equipment and systems. In addition, the Companies are looking to use a similar process to increase the adoption of heat pumps to replace electric resistance heating and to pilot heat pumps to displace existing oil and propane heating. In the 2022-2024 term, the Companies will explore transitioning the learnings from the HVAC Modernization pilot to a program offering and will continue to review similar opportunities for HVAC Demonstration program pilots based on market assessment opportunities.

#### Workforce Development

The Companies will increase their focus on developing the workforce to improve effectiveness delivering well-fitted solutions to customers. Trainings on effective use of the comprehensive and lighting control benefits aim to increase the effectiveness of complex proposals with deeper energy impacts. Details of these efforts are outlined in Section 4.3.

#### Comprehensiveness

The Companies continue to strive to achieve comprehensive and controlled lighting projects as opposed to prescriptive lighting projects. In 2021, to increase comprehensiveness, the Companies expanded customer eligibility for comprehensive benefits to include measures completed within a year of an initial project and across various programs. The Companies will use the restructured incentives to encourage more non-lighting measures and explore new market segments such as agriculture, cannabis, grocery, telecom buildings, and unmanned telecom shelters and cabinets.

Expanding the comprehensiveness benefits to customers using multiple programs throughout the year allows the Companies to accommodate customers' limited resources and financial timelines while addressing deeper energy opportunities. The Companies will look to increase cross-program promotions and improve internal tracking coordination to maximize customer benefits of these 2021 extended comprehensive eligibility guidelines.

While continuing to promote higher benefits to customers to implement new network lighting control projects, the Companies will explore opportunities to add controls to existing LED installations using their existing project records to identify customers. Education to customers and contractors on the benefits of network lighting controls and the correct application will remain a priority within the Companies partnering with efforts expressed in Section 3.6. Targeting by customer segment, the Companies will drive the adoption of energy-saving strategies by leveraging industry association reach and focused messaging. Simplifying the identification of eligible measures and grouping into relevant offering packages will allow the Companies to connect with customers on the opportunities that resonate with their facilities.

#### *Customer Barriers*

The Companies have identified that some customers are unable to receive the full benefits of the Energy Opportunities program offerings. Structuring incentives to overcome the division of the utility benefit and the construction cost among tenants and landlords, addressing language preferences, and increasing diversity among supporting vendors to serve minority businesses fully and expanding lending options. The Companies will look to increase the number of customers benefiting from the retrofit initiatives.

Working with a network of landlords and tenants and related associations, the Companies will look to understand how to design incentives to work with different leasing structures and provide access to the comprehensive benefits by bridging tenant improvements and whole-building upgrades. By increasing involvement with trade associations across the state, the Companies hope to increase awareness of program benefits, targeting minority-owned businesses, and low participating segments. The Companies will support presentations at association meetings, assist in question and answer sessions, and provide information across several organizations over the next three years to remove the educational and information barriers present in low participating segments.

Customers preferring non-English communication will see an increase in messaging, information, and more in their language of preference. The Companies are mapping the customer journey through an energy efficiency project to determine where to position personnel and develop collateral to support an immersive experience for non-English speakers. By supporting preferred languages across the project lifecycle, the Companies aim to increase participation among minority-owned businesses who have been unable or reluctant to ask questions or understand program benefits.

Additionally, the Companies will look to build off of the lessons learned from implementation of weatherization measures in the residential sector, developing paths from remediation to participation for C&I customers. Remediation of health and safety barriers will allow broader reach of weatherization measures such as air sealing and insulation in the C&I space.

#### *Customer Opportunities*

When customers are open for business, they are using energy and the Companies will expand support of new and changing energy consuming operations while meeting health, safety and other code requirements. Further, supporting larger or unique opportunities by identifying alternative paths to participation outside the custom and prescriptive path such as specialized studies, focus on non-energy benefits and the HVAC modernization bid cycle.

While continuing to promote higher benefits to customers to implement new network lighting control projects, the Companies will explore opportunities to add controls to existing LED installations using our existing project records to identify customers. Education to customers and contractors on the benefits of network lighting controls and the correct application will remain a priority within the Companies partnering with efforts expressed in Section 3.6.

The Companies will revisit program opportunities surrounding mechanical ventilation, optimizing occupant-based airflow in COVID environment. Specifically, targeting K-12 school buildings and assist them in responding to viral and bacterial outbreaks with the installation of enhanced ventilation systems. Among new opportunities the Companies will explore savings potential remediate refrigerant leaks in grocery and industrial customer facilities, building a network of vendors specializing in the detection of refrigerant leaks and conducting a pilot study to design a detection and remediation process strategy.

The Companies will explore adding non-energy benefits beyond standard benefit-cost analysis to access higher incentives for HVAC measures. Additionally, to increase awareness, environmental impact messaging will be included on project contracts to educate customers on the non-energy benefits of energy efficiency improvements. The Companies look to prioritize strategies that increase implementation of HVAC and process modernization projects such as compressed air systems, steam systems, vacuum systems, process refrigeration, process boilers and furnaces, and thermal oxidizers. Building off the findings of the modernization projects developed in the last three years to increase awareness of these opportunities and targeting projects or equipment with long run hours or high environmental impact potential.

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### 3.3.3 Medium-Sized Business Offering (Eversource only)

#### *Objectives & Target Market*

This offering is for mid-size businesses that consume between >1,000,000 kWh and 5,000,000 kWh annually. The program will use a preferred vendor structure, incentives, and solutions similar to the Energy Opportunities program. This mid-size business initiative bridges the current gap for providing customized solutions and services to businesses that fall between the small business offering and the consultant management of larger energy consumers. These businesses typically are not managed by a utility account manager (similar to most small-sized C&I customers). Currently, there are 2,600 Eversource C&I customers who are eligible to participate in the medium-sized business initiative.

Eversource plans to focus on delivering comprehensive solutions to these mid-size businesses and move away from fundamental lighting projects using the workforce and benefit strategies referenced in Section 3.3. In 2022, Eversource will on-board a new group of preferred vendors following a 2021 Request for Proposal. The preferred vendors will be selected based on their ability to provide HVAC measures, advanced lighting controls, air compressors and refrigeration measures through in-house expertise or proven sub-contractor relationships.

In the 2022-2024 term, Eversource will look to improve the integration of its qualified contractor programs. Eversource will provide incentives and education to qualified contractors to introduce customer opportunities outside the contractor's own expertise and supported by other qualified contractor groups.

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### 3.3.4 Benchmarking Initiative

Benchmarking is tracking energy performance against a standard. It measures and compares a building's energy to similar buildings, past consumption, or a referenced performance level.<sup>89</sup> The Companies continue to encourage the use of EPA's ENERGY STAR Portfolio Manager software for building benchmarking and to measure energy and water consumption, as

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<sup>89</sup> EPA, available online at: [www.energystar.gov/buildings/benchmark](http://www.energystar.gov/buildings/benchmark).

well as greenhouse gas emissions. Benchmarking is also a requirement for participating in the Retro-commissioning offering.

For the 2022-2024 term, the Companies will continue their partnership with the EPA and provide ENERGY STAR Portfolio Management technical support related to the automatic transfer of billing data to the Portfolio Manager software. The Companies will encourage SBEA vendors to attend these EPA online seminars and explore how this benchmarking software can help them target specific customer market segments and identify energy efficiency opportunities.

As part of the 2021 Plan Update approval, DEEP has asked the Companies to develop a proposal for savings attribution for building benchmarking that would align with the concepts in S.B. 177, *An Act Concerning Energy Consumption Data and Labeling* from the 2020 session regarding building benchmarking: “The proposal shall include a program to voluntarily encourage large building owners to benchmark their buildings and address associated data access and aggregation issues. This Benchmarking Initiative proposal is included as part of this 2022-2024 Plan (see Appendix D).

One aspect of the benchmarking initiative that is currently under evaluation includes assessing energy savings through changes in benchmarked EUI data, with the potential for realized savings be tied to a pay-for performance incentive structure. The Companies are reviewing methods for data normalization between measurement periods including weather, space use, vacancy, and concurrent implementation of energy conservation measures through other C&I programs. The Companies have attached the benchmarking initiative proposal as Appendix D to this 2022-2024 Plan.

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### 3.3.5 Midstream Rebates

The Companies offer midstream rebates for lighting through the Energy Opportunities program. The objective of this offering is to influence the stocking and selling practices of distributors. The Companies also work with manufacturers to understand market trends and communicate product qualification criteria. By offering instant discounts at the distributor’s point of sale, the Companies can tip the financial scales in favor of energy-efficient options, leading distributors to change what they stock and sell, and contractor purchases which benefit the customer. Since 2016, the Companies have demonstrated success in delivering midstream incentives through their Residential and C&I Portfolios. Moving incentives upstream from the consumer alters the way retailers and distributors stock their shelves with energy-efficient products, helps streamline the rebate process for the customer, and lowers the processing costs for the Companies. For the 2022-2024 term, the Companies will offer midstream incentives for lighting and examine pathways to expand network lighting control offerings through midstream rebates.

## 3.4 BUSINESS AND ENERGY SUSTAINABILITY

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The Companies offer several Business and Energy Sustainability offerings that seek to integrate energy efficiency into day-to-day operations of C&I customers through services and innovative products. A collection of energy efficiency and sustainability initiatives, the program helps C&I customers make continuous improvements in their business and facility operations that lead to sustainability and competitive business advantages.

The following figure summarizes the Companies’ projected energy savings, program costs, benefits, and cost-effectiveness for the Business and Energy Sustainability program, including both electric and natural gas values.



**Figure 3-G: 2022-2024 Business and Energy Sustainability (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Customers Served	767
Total Program Lifetime Savings, Electric (MWh)	246,302
Total Program Lifetime Savings, Natural Gas (ccf)	13,791,786
Total Program Lifetime Savings, Oil (Gal)	29,051
Total Program Lifetime Savings, Propane (Gal)	18,987
Total Program Lifetime Savings (MMBtu)	2,265,320
Lifetime CO <sub>2</sub> Emissions Reduced (tons)*	197,122
Total Program Lifetime Benefits (\$000)	\$65,709
Total Program Costs (\$000)	\$18,284

*\*Please note that these are short tons.*

### 3.4.1 Objectives & Target Market

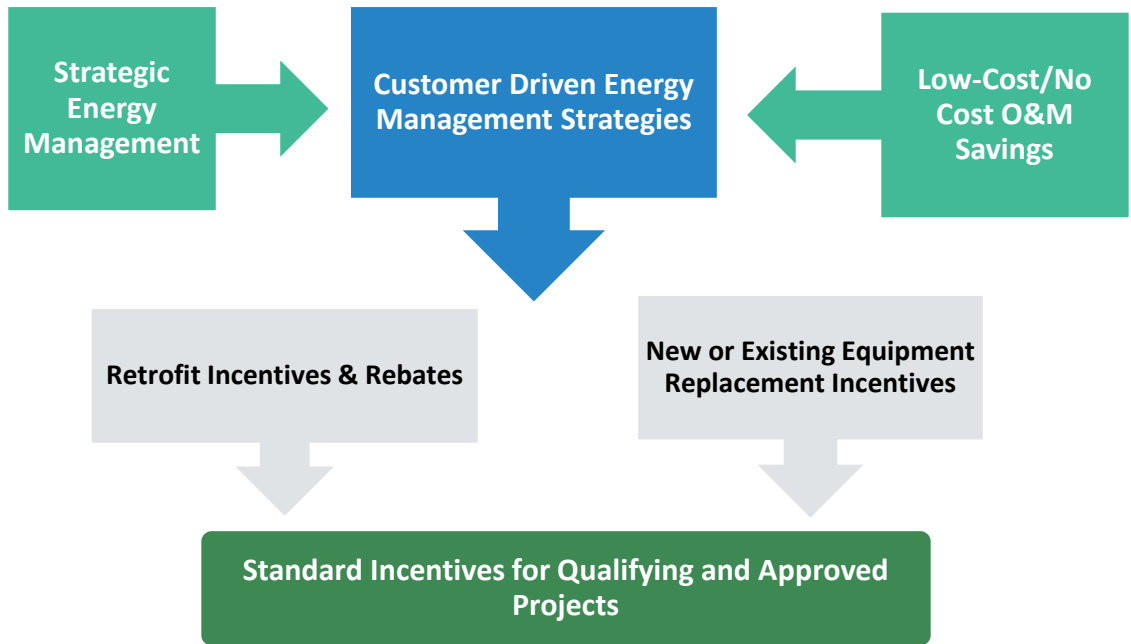
The Business and Energy Sustainability program's primary objective is to help C&I customers make continuous improvements in their business and facility operations that lead to sustainability and competitive business advantages. Due to its highly-specialized initiative offerings, the portfolio of Business & Energy Sustainability offerings can help all C&I target markets make continuous improvements to their buildings. This includes Strategic Energy Management (SEM) offerings of Energy Utilization Assessments (EUAs), Process Reengineering for Increased Manufacturing Efficiency, Retro-commissioning (RCx) and Monitoring-Based Commissioning (MCx), and Operations and Maintenance (O&M) Services. Figure 3-H shows the solutions offered under the Business & Energy Sustainability program umbrella.

#### Strategic Energy Management

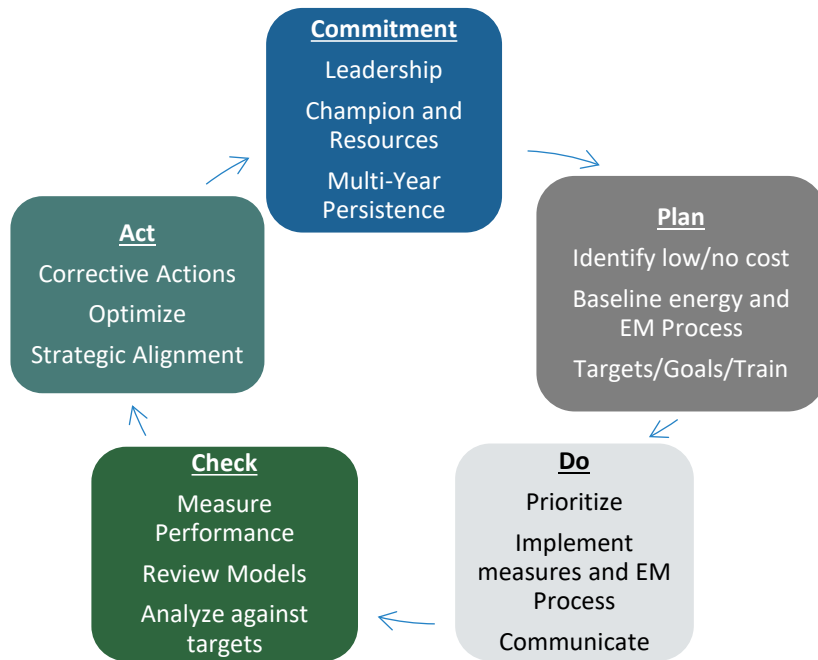
The SEM approach is a long-term engagement to pursue energy efficiency that focuses on setting goals, tracking progress, and reporting results. The SEM approach establishes long-term relationships with energy users to target persistent low- and no-cost measures, as well as prioritize capital project opportunities. Though this program contains all of the value of a traditional SEM program that other states' energy efficiency portfolios present to customers, the offering provides many additional aspects of sustainability that help define it as a cutting-edge program. For the 2022-2024 term, the Companies are evaluating opportunities to integrate ongoing benchmarking to document and claim savings achieved through SEM processes.

The figures below depict the Companies' SEM approach and program process.

**Figure 3-H: Business and Energy Sustainability Program Design**



**Figure 3-I: SEM Program Process**



### *Energy Utilization Assessments*

The EUA Initiative is a tool in the Business and Energy Sustainability portfolio that focuses on delivering a standard approach to industrial facility audits. This approach is action-oriented and geared toward finding holistic energy efficiency solutions for C&I customers that can generate substantial energy and financial savings as well as quick payback. The Companies have a select group of vendors that provide audit services that are cost-shared with the participating C&I customer.

### *Process Reengineering for Increased Manufacturing Efficiency*

The PRIME initiative specifically targets Connecticut's manufacturing sector. PRIME engages manufacturers in a systematic approach to identifying inefficiencies and waste in their business operations. Through the PRIME initiative, manufacturers receive training in lean manufacturing techniques to eliminate or reduce waste, improve product efficiency, reduce operating inefficiencies, minimize environmental impacts (reduced greenhouse gas emissions), reduce electrical energy consumption, and to streamline manufacturing processes.

Through the PRIME initiative, the Companies conduct a competitive solicitation process for highly-qualified lean manufacturing vendors. These vendors conduct a site-survey to determine what site-specific and market segment-oriented lean manufacturing techniques should be implemented. The Companies offer incentives for energy-efficient equipment through their Energy Conscious Blueprint and Energy Opportunities solutions and provide funding for lean manufacturing training that is based on the energy savings associated with the training.

### *Commissioning*

The Retro-commissioning (RCx) Initiative is designed to identify energy-saving opportunities in existing C&I buildings by improving the existing buildings and systems to make them operate optimally. As buildings age and the occupancy and building use changes, it is important to maintain a building's energy management systems and sequences of operation to reduce operational inefficiencies and energy use. The RCx initiative helps C&I customers identify low-cost and no-cost non-capital energy-efficient measures that can result in energy savings for the building or facility owner. According to a study by Lawrence Berkeley Laboratory, RCx projects often have simple payback periods of two to four years; therefore, investments in RCx usually have attractive financial returns.

### *Monitoring-Based Commissioning*

The Companies will look to expand participation with customers interested in pursuing monitoring-based (MBCx) opportunities. Many customers are hesitant to invest in MBCx tools due to first investment costs and subscription fees. The Companies will clarify methodologies to derive energy savings that can contribute to or offset subscription fees as measures are implemented. Additionally, the Companies intend to educate MBCx vendors on requirements for submitting qualified projects and optimizing savings for customers.

### *Virtual-Based Commissioning (United Illuminating Only)*

In 2021, United Illuminating launched a Virtual Commissioning pilot for small and medium-sized businesses. The pilot used United Illuminating's investment in Advanced Metering Infrastructure (AMI) technologies to help small and medium-sized businesses make O&M improvements to their equipment and procedures. As part of this offering, a third-party commissioning consultant reviews a customer's AMI data to determine and analyze their energy load. The energy load analysis combined with a virtual audit of the business or facility enables the consultant to give recommendations for low-

cost and no-cost modifications to equipment and processes. The results from the 2021 pilot were successful and as a result, United Illuminating will transition the offering to a full-fledged program in the 2022-2024 term.

### Operations & Maintenance Services

The O&M Services Initiative enables C&I customers to “tune-up” or improve the electrical and thermal efficiencies of their operations by making changes and repairs to equipment. The O&M Services Initiative provides a number of improvements that maximize operational efficiency and optimize performance, including compressed-air system leak studies and repairs (e.g., Compressed Air System Optimization offering), modifications and/or repairs to building management system control components and software programming, and stream trap repairs and upgrades. Either the Companies’ staff or an O&M Services contracted vendor will partner with a participating customer to identify energy efficiency opportunities and support their implementation.

For the 2022-2024 term, the Companies are evaluating new O&M measures, including refrigerant leak detection, repair, and charging. The Companies have designed custom incentives that are based on the associated costs and energy savings resulting from the energy efficiency improvements.

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## 3.4.2 Themes & Priorities

### Strategic Energy Management

The 2022-2024 key themes and priorities for the Strategic Energy Management offering include:

- Establish cohorts of non-competing customers who can collaborate and progress together
  - Recruiting multi-site customers.
  - Expanding outreach to industry networks.
- Optimize effort in capturing SEM savings.
  - Collaborative training sessions with SEM providers, engineering reviewers, and internal evaluation staff.
- Support large customers who want to pursue SEM individually.
- Support customers who want to pursue ISO 50001 certification.
- Support C&I customers through the Benchmarking Initiative.
- Provide new offering for virtual treasure hunts and engaging resource-strapped customers with SEM Lite options.

### Energy Utilization Assessments

In 2021, improvements to customer outreach strategies, process flow, and vendor management were identified during Kaizen events supported across the Companies. Over the next three years, the Companies will conduct a new outreach strategy, focusing on pre-qualification of customer candidates through public and utility data and increased internal training to increase awareness of the offering among staff working with potential customers. As this is a very custom offer, effort to standardize the type of information needed to pre-approve an opportunity and increasing performance feedback to vendors on will increase the consistency and quality of projects across all customers. These efforts are meant to increase participation and support manufacturing customers in achieving non-lighting energy savings.

### Process Re-engineering for Increased Manufacturing Efficiency

In the 2022-2024 term, the Companies will explore expanding customer eligibility guidelines for this offering to serve small to mid-size manufacturing customers while redefining the value proposition to better capture the benefits of the PRIME program. When expanding the eligibility guidelines, the Companies will focus on adapting the current program model to serve customers less likely to have energy-focused staff members and who have smaller or fewer machines.

### Operations & Maintenance

The following are the 2022-2024 key themes and priorities for the Operations & Maintenance offering:

- Expand marketing and outreach efforts for steam trap surveys/wraps and trap repair.
- Expand marketing and outreach efforts for compressed air leak studies, leak repair, optimization.
- Pursue Internet of Things (IOT) for manufacturing efficiency.

### Commissioning

The following are the 2022-2024 key themes and priorities for the Companies' Commissioning offering:

- Expanding vendors to perform retro-commissioning (United Illuminating only).
- Explore pay-for-performance incentive structure.
- Evaluate best options to encourage continuous commissioning platforms
- Increase customer education for monitoring-based commissioning opportunities.
- Prescriptive offering for low-cost tuning measures for HVAC equipment maintenance and performance optimization.
- Equipment & Systems Performance Optimization (ESPO) maintenance measures under development.<sup>90</sup>

## **3.5 SMALL BUSINESS PROGRAM**

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The Small Business Energy Advantage (SBEA) program is one of the more well-known and recognized programs in the C&I Energy Efficiency Portfolio. SBEA is designed as a cost-effective, turnkey energy efficiency service for small C&I customers who do not have the financial resources, in-house expertise, or time necessary to analyze and reduce their energy consumption.

<sup>90</sup> This offering will be similar to the Mass Saves ESPO program and its three channels: (1) low-cost measures, (2) targeted systems tuning, and (3) whole building and process tuning.

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### 3.5.1 Small Business Energy Advantage Program

#### *Objectives & Target Market*

For the 2022-2024 term, the SBEA program will continue to offer a financial platform that combines incentives for relevant energy efficiency measures within cost-effective restraints and a zero-percent financing option to credit-qualifying customers to cover the balance of the energy efficiency project costs in a cash positive scenario. While simultaneously increasing the hurdles necessary to reach true comprehensiveness through a tiered incentive structure.

The financed contract amount appears as a line item on the SBEA customer's electric bill. The loan repayment term is typically determined by the simple payback of the project and set at a level which typically provides the customer with a positive or at least neutral annual cash flow based on the estimated energy savings of the installed measures. Like electric measures, the cost of natural gas energy-saving measures is also financed as part of the on-bill financing. When the simple payback of measures or amounts to be financed exceed maximums established by the Companies, SBEA customers are given access to the same types of third-party financing offered through the Energy Opportunities program. Eversource will extend the SBEA financing process through the 2022-2024 Plan. This is the financing approved by the EEB and DEEP to allow Eversource to sell energy efficiency loans to third-party lenders (including the CT Green Bank) to reduce the Conservation & Load Management interest expenses and leverage third-party capital.

Since 2020, the Companies have been providing VPA through SBEA and Eversource's medium-sized business offering. The technician-led VPA is most similar to the on-premises SBEA and medium-sized business program audits, though it cannot provide the diagnostics, testing, and direct install of energy efficiency upgrades that are normally completed during a traditional on-site assessment. The VPA does help technicians identify "low-hanging fruit" energy-saving opportunities that can be made once a vendor can physically go on site and perform the installations.

As part of promoting heat pump technologies, the Companies will include training SBEA contractors on the benefits of heat pumps and how to best identify businesses that could benefit the most from the installation of heat pump technologies. The Companies see these trainings as imperative to the increased adoption of heat pump technologies by small business customers. Small and micro customers are the best target for decarbonization through retrofit, especially customers who have delivered fuels, electric resistance space, domestic hot water, and/or inefficient central air conditioning equipment that needs to be upgraded.

As part of the Microbusiness Initiative, the Companies will target businesses that use less than 25 kW average monthly demand (United Illuminating) or consume less than 100,000 kWh annually (Eversource) across all facilities and are underserved as their percentage of savings relative to usage as the C&I group. The Companies will target this segment of the market with potentially enhanced incentives especially when a customer installs non-lighting or comprehensive measures.

The following figure summarizes the Companies' projected energy savings, program costs, benefits, and cost-effectiveness for the Small Business program, including both electric, natural gas, and oil values.

**Figure 3-J: 2022-2024 Small Business Energy Advantage (Combined Electric and Natural Gas)\***

Planned Results	Total
Number of Customers Served	3,084
Total Program Lifetime Savings, Electric (MWh)	657,653
Total Program Lifetime Savings, Natural Gas (ccf)	6,134,383
Total Program Lifetime Savings, Oil (Gal)	42,725
Total Program Lifetime Savings, Propane (Gal)	57,027
Total Program Lifetime Savings (MMBtu)	2,886,273
Lifetime CO <sub>2</sub> Emissions Reduced (tons)	294,277
Total Program Lifetime Benefits (\$000)	\$127,515
Total Program Costs (\$000)	\$53,087

*\*Please note that these are short tons.*

### 3.5.2 Themes & Priorities

For the 2022-2024 term, the SBEA program will model the themes and priorities discussed in Section 3.3.2 applying special considerations where needed to address the unique characteristics of small business customers as discussed below.

In addition to the support of preferred languages and industry association outreach outlined in Section 3.3, the Companies will note the languages supported by the qualified vendors in their sales, auditing and install teams, identifying gaps in preferred language support. The Companies will work with associations and community groups to communicate savings benefits to their members and priority will be given to associations affiliated with distressed customer groups. Customers in environmental justice or underserved territories will be targeted by the Companies through outreach campaigns. The Companies will explore opportunities to provide enhanced benefits to customers through unique incentive and lending offerings when possible.

#### Outreach

The Companies will look to increase small business adoption of weatherization measures, targeting businesses in converted residences. In addition to the support of preferred languages and industry association outreach outlined in Section 3.3, the Companies will note the languages supported by the qualified vendors in their sales, auditing, and install teams, identifying gaps in preferred language support. In addition to collaborating with associates to communicate savings benefits to their members, priority will be given to associations affiliated with distressed customer groups. Customers in environmental justice or underserved communities will be targeted by the Companies through outreach campaigns. The Companies will explore opportunities to provide enhanced benefits to customers through unique incentive and lending offerings when possible.

#### Workforce

In the upcoming term, the Companies will look to increase small business adoption of weatherization measures, targeting businesses in converted residences. The Companies have identified a gap in the workforce and will look to develop training to help residential or out-of-state contractors handle the needs of Connecticut commercial buildings. Submission

tools and streamlined review processes are under development to aid in the implementation of weatherization measures among this new workforce.

#### Non-Lighting

The Companies will identify barriers to engage specialty subcontractors (e.g., weatherization, PRIME, and process) in the SBEA program. By increasing opportunities for qualified SBEA vendors to network with these vendors, developing alternative incentive payment processes and mitigating risk of the SBEA vendor acting as the general manager when engaging subcontractors, the Companies will motivate vendors to promote specialty measures. The Companies will increase training to identify submission requirements and incentive potential of non-lighting measures. Efforts in process improvement mentioned later in this section will also support increased submission of non-lighting measures.

#### Process Improvement

In 2021, the Companies conducted a Kaizen event and developed strategies to eliminate non-value added administrative/approval tasks, reduce project rejections/send-backs, and simplify contract paperwork. For the upcoming term, the Companies will look to implement these strategies to deliver accurate and concise proposals to customers for approval quickly. Additionally, simplifying the communication of benefits for non-lighting measures to reduce customer confusion when making a decision to approve the install and use marketing material to provide relevant contact information for customers who have questions post-install.

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#### 3.5.3 Small Manufacturing Initiative

Small manufacturers are responsible for approximately 40 percent of annual electric consumption in the state and are the driving force behind Connecticut's economy. During 2021, the Companies launched this new initiative targeting small manufacturers to help them stay competitive and reduce energy consumption. This initiative focuses on marketing all the industrial energy efficiency program offerings together into a coherent package that makes it easy for small manufacturers to navigate and capitalize on the wide variety of C&I initiatives. The Companies intend to promote EUAs and PRIME under the Small Manufacturing Initiative. Additionally, the Companies will promote compressed air measures, such as leak remediation and prescriptive measures (e.g., variable speed drive compressor, cycling dryer, no loss drain, air nozzles). Specific tactics to promote this initiative are expected to include targeted digital display advertising, direct mail, email marketing campaigns, webinars, and paid social. The Companies will develop messaging in the latter part of 2021.

### 3.6 FOCUS ON MANUFACTURING

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The Companies will pursue a strategic outreach to Connecticut manufacturers who have had no or minimum historical participation in energy efficiency. The Companies will focus on simplifying the communication of a value proposition to manufacturing customers that more effectively connect manufacturing needs and business challenges to relevant energy efficiency solutions. Additionally, the Companies will focus expansion of energy efficiency offerings to manufacturers that support their pursuit of leveraging information and data and technology advancements in their business operations.

To support this increased focus on manufacturing, the Companies will launch a Small Manufacturer Initiative to help small manufacturers save energy and remain in the state (see Section 3.5.3 above). This initiative will focus on marketing all of the Companies' industrial program offerings together into a coherent package that makes it easy for small manufacturers to navigate and capitalize on the wide variety of C&I incentives. The C&I Portfolio offerings promoted will include EUAs and PRIME.



The Companies intend to integrate their workforce development efforts with the Industrial Assessment Center to provide a pipeline of qualified workers who understand the link between energy efficiency and economics to help Connecticut's small manufacturers to remain competitive in today's global economy. Please see Section 4.3.4 for more information regarding the Industrial Assessment Center.

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### 3.6.1 Outreach to Engage More Manufacturing Participation

#### *Engaging Non-Participants*

The Companies will pursue outreach strategies to Connecticut manufacturers who have had no or minimum historical participation in energy efficiency. During the 2022-2024 term, the Companies will establish a more simplified concierge process to leverage outreach efforts to the manufacturing community. This would extend beyond internal account executives and energy efficiency consultants/energy engineers, and also leverage contractors and vendors who work primarily in the manufacturing markets. The Companies will offer consultative sales training updates specifically geared to the manufacturing market for those contractors and vendors who frequently engage with manufacturing customers. This training will include guiding customers through a journey map process to employ with manufacturers and identify their specific needs to link customers with appropriate energy efficiency solutions.

#### *Expand Relationships with Manufacturing Service Providers*

Connecticut has numerous industry organizations that offer support resources to assist manufacturers in areas such as workforce development, technology development, and training. The Companies plan to expand relationships and strategically engage in new partnerships that can leverage value for participating organizations and manufacturing customers. These partnerships are intended to provide additional engagement opportunities with more manufacturing customers through broader outreach.

#### *Expand Efforts with "Frequent Flyers"*

The Companies have had continued participation from a segment of the manufacturing community year over year. The customers, known as "frequent flyers" (repeat participation year over year), present opportunities to engage in more strategic Behavior & Energy Sustainability programs such as SEM or PRIME. The Companies will engage these customers to pursue additional behavioral enhancement and strategic plan development opportunities.

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### 3.6.2 Simplify Communications to Manufacturing Customers

#### *Effectively Connect to Manufacturers*

The Companies recognize some of the unique challenges faced by manufacturers including rapidly changing technology, global competition, and supply chain demands. Providing clear solutions that manufacturers can easily connect as value added support to achieve their business objectives is highly desired. Design of "Program" outreach and communications (e.g., collateral, website) will explore ways to clearly articulate specific solutions in a way that resonates with manufacturers and enhances their ability to find the solutions they are seeking. The Companies will focus on providing a more solutions-based communication pathway that better resonates with manufacturing needs for specific areas of interest such as reduced carbon emissions, lean manufacturing, or improvement toward sustainability objectives. The Companies will pursue collaborative efforts to not only improve collateral and website content, but also improve

guidance and “journey mapping “ efforts with their customers to address their specific manufacturing needs more effectively and efficiently.

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### 3.6.3 Leveraging Information and Data

#### *Keeping Pace with Technology*

As manufacturing moves toward Industry 4.0 and beyond, the Internet of Things (IoT) on the shop floor is a critical infrastructure that supports improved manufacturing processes. For the upcoming term, the Companies will seek to leverage newly available data that can integrate into energy management information systems (EMIS) or other processes that can directly generate energy information that can influence business operations. Opportunities such as real-time energy management, expanded MBCx, supervisory controls on legacy equipment, and other technologies may provide manufacturers greater visibility into their processes and leverage operational strategies that generate energy savings. The Companies intend to invest funding in the research and development of these advanced technology opportunities and evolve cost-effective program offerings that capture sustainable energy savings.

#### *New Technology Introduction and Training*

As mentioned previously regarding expanding relationships with key strategic manufacturing service providers, the Companies will leverage those relationships and other industry resources to provide information on new manufacturing technologies to customers through training events and webinars. The objective is to introduce manufacturing customers to new technologies that increase throughput, reduce operating costs (including energy) and reduce defects and waste. In many cases, energy savings can be achieved through the deployment of new technologies. The Companies will collaborate where possible with key service providers and technologies manufacturers to offer these training resources.

## 3.7 DEMAND MANAGEMENT PROGRAMS

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As noted in Section 2.8, the Independent System Operator-New England (ISO-NE) manages New England’s generation and transmission infrastructure. ISO-NE is responsible for the reliability of the grid to meet the system load at every hour of the day on a year-round basis. The Companies’ traditional asset-based energy efficiency programs result in load reductions year-round as the high-efficiency measures installed produce both energy savings and “passive” demand reductions. The Companies aggregate these demand reductions and bid them into ISE-NE’s Forward Capacity Market (FCM). The revenues from FCM auctions help offset energy efficiency program costs.

During the 2019-2021 term, the Companies began to integrate active demand response strategies into the C&I Portfolio to assess demand reductions (kW) of each offering and customer engagement. Active demand response programs require customers to make discrete actions that they would not have otherwise taken to reduce their electrical load for a specified period of time, such as allowing their smart thermostats to be remotely adjusted a few degrees or agreeing to have their electric vehicle charging times shifted to off-peak times. The Companies incentivize these brief reductions in customer load during targeted periods of high system demand. These incentives encourage C&I customer participation and increase demand reductions.

As a result of the Companies’ active demand response offerings, all customers benefit from the lower costs of a smaller generation, transmission, and distribution system. The active demand response offerings also increase the reliability of the grid due to reduced peak demand. The peak demand reductions from the Companies’ programs provide benefits to

all customers by suppressing wholesale power prices during peak demand times and reducing the need to use generation that is more expensive and environmentally destructive. This offsets the need for fossil-fueled generation and also contributes to reduced greenhouse gas emissions.

The Companies' active demand response offerings are designed to decrease peak demand by incentivizing customers to enroll eligible communicating equipment. The reduction in peak demand results in lowered energy costs to customers, more reliability of the grid, and reduced greenhouse emissions. Currently, eligible technologies in the C&I sector include smart thermostats, electric vehicle chargers, storage (batteries), water heating equipment, and other smart, connected technologies. The Companies are always exploring additional opportunities and will consider including cost-effective measures as they are discovered. Incentives are given when a customer enrolls eligible equipment into an Active Demand Response offering. The customer can earn additional incentives by participating during a demand response event.

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### 3.7.1 Themes & Priorities.

In the 2022-2024 term, the Companies' active demand response programs' key themes and priorities include:

- Expand offering for electric vehicle charging strategies.
- The Statewide Electric Storage program will begin in 2022. The Companies will maximize cross coordination between their battery storage offerings and energy efficiency programs.
- Increase offerings for Connected Solutions.
- Continue to explore opportunities with PCM/Ice Storage.
- Add a small businesses direct load control smart thermostat offering.
- Look for opportunities to implement the DOE Grid Interactive Efficient Buildings concepts.

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### 3.7.2 Target Market & Objectives

All C&I customers of the Companies are eligible to participate in the Companies' active demand response offerings, provided their equipment meets program-specific criteria. The following figure summarizes the Companies' projected peak demand savings, program costs, benefits, and cost-effectiveness for the Demand Management programs.

**Figure 3-K: 2022-2024 C&I Demand Management (Combined Electric)\***

Planned Results	Total
Number of Units Enrolled	1,121
Summer kW Peak Demand Reduction	244,056
Total Program Lifetime Benefits (\$000)	\$33,998
Total Program Costs (\$000)	\$14,308

### 3.7.1 Eversource Active Demand Response Offerings

#### Objectives & Target Market

Throughout the 2019-2021 term, Eversource implemented a variety of strategies aiming to provide demand reductions for large C&I customers. These included targeted dispatch, daily dispatch, and winter dispatch strategies which are detailed in the figure below.

**Figure 3-L: Eversource Demand Management Offerings**

Targeted Dispatch	Daily Dispatch	Winter Dispatch
<ul style="list-style-type: none"> <li>• 3-8 events per summer</li> <li>• 3 hours per event</li> <li>• \$35/kW-summer (technology agnostic)</li> <li>• \$100/kW-summer (storage)</li> <li>• Typical dispatch strategies &amp; technologies:               <ul style="list-style-type: none"> <li>○ Usually, manual dispatch</li> <li>○ Temperature setback ~3°F</li> <li>○ VFD speed limiting</li> <li>○ Early setback</li> <li>○ Process changes</li> <li>○ Generators</li> <li>○ Combined heat and power</li> <li>○ Lighting</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 30 - 60 events per summer</li> <li>• 2-3 hours per event</li> <li>• \$200/kW-summer (storage)</li> <li>• Typical dispatch strategies and technologies:               <ul style="list-style-type: none"> <li>○ Usually, automatic dispatch</li> <li>○ Batteries</li> <li>○ Flywheels</li> <li>○ Thermal storage</li> <li>○ Industrial freezers</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 5 events per winter</li> <li>• 3 hours per event</li> <li>• \$25/kW-winter (technology agnostic)</li> <li>• \$50/kW-winter (storage)</li> <li>• Typical dispatch strategies and technologies:               <ul style="list-style-type: none"> <li>○ Usually, manual dispatch</li> <li>○ Snowmaking</li> <li>○ Industrial processes</li> <li>○ Generators</li> </ul> </li> </ul>

#### Electric Vehicle Charging

In 2020, DEEP issued an “*Electric Vehicle Roadmap for Connecticut: A Policy Framework to Accelerate Electric Vehicle Adoption*,” a document that discusses the role of electric vehicles in the state’s evolving transportation sector. Prior to the issue of this roadmap, the Companies had begun evaluating active demand response opportunities available in the electric vehicle charging process. Specifically, the Companies assessed offerings for C&I customers that would provide a mechanism to charge (and potentially discharge) electric vehicle batteries at times most beneficial to the electric grid (e.g., during periods with excess solar generation, outside of grid peak periods).

On July 14, 2021, PURA issued its final decision in Docket No. 17-12-03RE04 as part of its grid modernization docket.<sup>91</sup> This decision established a zero emission electric vehicle program (Electric Vehicle Charging Program) for all customers and customer classes within the service territories of the Electric Companies. The Electric Vehicle Charging Program consists of a combination of incentives for networked Level 2 electric vehicle supply equipment (EVSE) and direct current fast chargers, as well as accompanying rate design offerings.

The Electric Companies will administer the Electric Vehicle Charging Program in their respective electric service territories. There are five program areas, or market segments, in the program’s design to optimize EVSE deployment and associated

<sup>91</sup> PURA, Decision, *Docket No. 17-12-03RE03: PURA Investigation Into Distribution System Planning of the Electric Distribution Companies-Zero Emissions Vehicles*, issued Jul. 14, 2021, available online at: <https://portal.ct.gov/-/media/PURA/electric/PURA-Establishes-Statewide-Electric-Vehicle-Charging-Program.pdf>.

distribution system infrastructure necessary to meet Connecticut’s transportation electrification goals: (1) Residential Single-Family Level 2 Charging, (2) Residential Multi-Unit Dwellings (MUDs) Level 2 Charging, (3) Direct-Current Fast Charging, (4) Destination Level 2 Charging, and (5) Workplace & Light-Duty Fleet Level 2 Charging.

These five program areas represent a comprehensive, portfolio approach to enabling zero-emission vehicle deployment on the scale necessary for the State to meet its electric vehicle policy goals and greenhouse gas reduction targets. During the 2022-2024 term, Eversource will monitor its Electric Vehicle Charger Control and Direct Communication to the Electric Vehicle offerings (see below) to determine how they will coordinate or integrate the implementation of these initiatives with the Electric Vehicle Program.

### Electric Vehicle Offerings

As of July 2021, the Companies’ current electric vehicle offerings include:

- **Eversource:** Residential customers can pursue upfront and performance incentives for enrolling home electric vehicle chargers in the Connected Solutions program.<sup>92</sup>
- **Eversource:** Electric Vehicle Rate program available for separately metered, publicly available charging stations.<sup>93</sup>
- **United Illuminating:** UI Smart Solutions Online Marketplace offers variety of Wi-Fi enabled electric vehicle charging stations and accessories.<sup>94</sup>

In June 2021, PURA issued a proposed final decision on “*Docket No. 17-12-03RE04: PURA Investigation Into Distribution System Planning of the Electric Distribution Companies - Zero Emission Vehicles*”. The document provides a proposed program design that defines electric vehicle charging program guidelines, incentive structures, and implementation goals. Participants are eligible for an upfront incentive upon installing charging equipment enrolled in a “Managed Charging” program (managed electric distribution company or third-party aggregator to support demand response and direct load control efforts). The program has an anticipated start date of January 2022.

### Statewide Electric Storage Program

On July 28, 2021, PURA issued its final decision in Docket No. 17-12-03RE03 as part of its grid modernization docket.<sup>95</sup> The regulatory decision established a statewide electric storage program (Electric Storage Program) for all residential and C&I customers within the service territories of the electric distribution companies (EDCs). PURA established two compensation mechanisms for electric storage systems participating in the Electric Storage Program:

- An upfront incentive administered by the CT Green Bank, and
- Performance-based incentives administered by the EDCs (i.e., the Electric Companies).

<sup>92</sup> Eversource, Electric Vehicle Home Charger Demand Response program website, available at: <https://www.eversource.com/content/ct-c/residential/save-money-energy/explore-alternatives/electric-vehicles/ev-charger-demand-response>.

<sup>93</sup> Eversource, Electric Vehicle Rate program website, available at: <https://www.eversource.com/content/ct-c/business/my-account/billing-payments/about-your-bill/rates-tariffs/electric-vehicle-rate-program>.

<sup>94</sup> United Illuminating, Electric Vehicle Chargers, available at: <https://uismartsolutions.com/Electric-Vehicle-Chargers/>.

<sup>95</sup> PURA, Proposed Final Decision, *Docket No. 17-12-03RE03: PURA Investigation Into Distribution System Planning of the Electric Distribution Companies-Zero Emissions Vehicles*, issued Jul. 28, 2021, available online at: <https://portal.ct.gov/-/media/PURA/electric/Electric-Storage-Proposed-Final-Decision-07-01-21.pdf>.

The final program design calls for 580 MW of electric storage to be implemented between 2022-2030, with a goal of 290 MW to be installed in C&I Applications. A goal of 50 MW for C&I storage projects is being pursued during the 2022-2024 term. Upfront incentives are scheduled with a declining block structure, based on a \$/kWh installed, which will gradually reduce as the program becomes subscribed. Performance-based incentives are set at a \$/kW deployed during Electric Company-scheduled events, primarily between 2 PM and 7 PM during June 1 and September 30.

### Thermal Storage

During the 2019-2021 term, the Companies continued to explore multiple advanced demand response opportunities utilizing thermal storage, primarily through custom path projects. These strategies will continue to be pursued during the 2022-2024 cycle, including a direct focus on ice and phase change material (PCM) applications.

In 2019, Eversource completed a thermal storage pilot<sup>96</sup> across multiple locations in Massachusetts examining two opportunity types: HVAC Ice Storage and PCM thermal mass additions in refrigerated spaces. The HVAC ice storage solution makes ice at night when ambient conditions and electric rates are favorable and thaws the ice during the day (peak periods) to provide air conditioning. The second solution uses PCM thermal mass in refrigerated storage warehouse space with controls to reduce compressor usage during peak hours by strategically storing and discharging heat energy from the PCM. The Companies intend to continue pursuing thermal storage opportunities during the 2022-2024 term, potentially piloting a large-scale ice/phase change material and thermal storage pilot in Connecticut.

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## 3.7.2 United Illuminating Programs

### *C&I DR Pilot (Natural Gas)*

In 2021, CNG and SCG launched their C&I Natural Gas Active Demand Response pilot using their current C&I Honeywell DRMS to initiate demand response events and calculate baseline usage, event reductions, and incentives earned by each participant.

### *C&I Performance Based DR Pilot (Natural Gas)*

In the 2022-2024 term, CNG and SCG will continue to offer the C&I Performance-based Demand Reduction program. This program is technology agnostic and will be marketed to all SCG and CNG large and medium general service customers with daily demand service and who are not currently on an interruptible rate. The program incentivizes CNG and SCG large and medium general service customers to provide natural gas reductions on the coldest day of the year. During an event, a customer will be asked to reduce their natural gas load for a full 24-hour-period starting at 10 AM and ending the following day at 10 AM.

All incentives are performance based and calculated based on actual event natural gas (ccf) reductions. CNG and SCG will typically call up to 6 events per season on days when the outside average daily temperature is forecasted at 18°F or below. The length of the active demand response event will be 24 hours. Customers are responsible for their participation

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<sup>96</sup> 2019 Consolidated Demand Demonstration Project Report, prepared for Eversource by Energy & Resource Solutions and DNV GL, Apr. 15, 2020, available at: [https://ma-eeac.org/wp-content/uploads/2019-Consolidated-Demand-Demonstration-Project-Evaluation-Report\\_04-15-2020\\_clean.pdf](https://ma-eeac.org/wp-content/uploads/2019-Consolidated-Demand-Demonstration-Project-Evaluation-Report_04-15-2020_clean.pdf).

strategy on natural gas demand response event days, which could include pre-heating spaces or suspending economizer outdoor air provisions.

#### *Small Business DLC Wi-Fi Thermostat Offering*

Very similar to the residential Room A/C Smart Plug program, United Illuminating's Small Business BYOT program will continue to target small C&I customers with installed connected smart thermostats. The thermostats used for these small businesses are the exact same connected smart thermostats used in residential households. Therefore, the participating small businesses are treated as a subset of customers controlled through the utility portal for the United Illuminating's Residential Direct Load Control Wi-Fi Thermostat program.

For the 2022–2024 term, United Illuminating will look to expand their existing program customer base with additional customers beyond the original pilot's targeted 50 customers. United Illuminating will experiment with different marketing approaches to reach more customers and try to better understand the incentives required to motivate and sign up customers.

#### *Building Management System and Network Lighting Control*

Targeted demand response used to defer investments in distribution systems can be a valuable tool to solve localized load growth issues. Targeted demand response programs, such as United Illuminating's C&I Auto Demand Response pilot, can often defer distribution system investments for multiple years.

For the 2022-2024 term, United Illuminating will look to grow its C&I Auto Demand Response pilot by adding additional customers. Initial customers targeted are those that are served by the Woodmont and Ash Creek substations in southwest Connecticut and who are able to commit a minimum of 50 kW in demand reductions. These two substations have been identified by United Illuminating and ISO-NE as critical peak demand reduction areas, particularly for the FCM. Geo-targeting could potentially increase the cost effectiveness of this C&I demand response pilot, and increase the benefits attributed to demand response programs.

C&I demand response programs tend to require a high degree of customization around specific customer capabilities and will often only target non-process or critical loads. Besides the typical HVAC loads associated with typical C&I demand response programs, the C&I Auto Demand Response pilot is also looking to identify new and advanced demand response technologies and practices, including connected equipment, and energy management and analytic systems.<sup>97</sup> These new demand response technologies include advanced thermostat controls for HVAC systems, and advanced/smart energy management systems that through sensing, feedback, and the use of algorithms, can control a building's performance holistically for minimized energy use and cost

Customers within this pilot will receive a base \$/kW for committed load reductions plus a \$/kWh performance incentive based on actual energy reduced during an event. The Companies will employ strategies to decrease peak energy consumption (electric and natural gas) among C&I customers.

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<sup>97</sup> The Companies will review a recent Massachusetts study to claim savings from controlling food service equipment at coffee shops. Savings were 4 percent of site usage. <https://ma-eeac.org/wp-content/uploads/MA20C07-E-DUN-Final-Report.pdf>.

## SECTION FOUR: EDUCATION, WORKFORCE, COMMUNITY OUTREACH & TECHNICAL ENGAGEMENT

### 4.1 OVERVIEW

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Over the past 20 years, the Companies have developed and implemented Energy Education, Workforce Development, Community Outreach, and Technical Engagement initiatives to drive energy efficiency across the state. For the 2022-2024 term, the Companies remain committed to delivering these comprehensive initiatives to support the Residential and C&I Portfolios. These initiatives provide additional support by driving greater participation in programs, increasing the understanding and awareness of energy efficiency, preparing the local and regional workforce for clean energy jobs, and providing technical support for energy efficiency data sharing platforms. In addition, these initiatives enhance the Portfolios and advance energy efficiency goals in the home, at school, in the workplace, and across Connecticut's diverse towns, cities, and neighborhoods. These initiatives include:

- **Energy Education.** The Energy Education program provides several offerings, including science-based lessons, professional development workshops for educators, in-classroom outreach and support, engaging educational presentations, career and trade school trainings, and an annual student contest.
- **Workforce Development.** The Companies invest in upskilling the current energy efficiency workforce and reaching out to prospective future workers through trainings, contractor education, learning laboratories, and outreach regarding new building codes, energy-efficient technologies, demand reduction strategies, zero energy building design, and sales strategies. The Companies' Workforce Development Initiative supports both the Residential and C&I Portfolios.
- **Community Outreach.** The Community Outreach strategies employed by the Companies include the Community Partnership Initiative, an enhanced place-based approach that seeks to increase partnerships with community-based organizations to expand their outreach to municipalities, neighborhoods, and communities where opportunities for energy efficiency remain. In addition, the Companies deliver entertainment-based exhibits and programming that inspire energy efficiency advocacy, educate Connecticut students, educators, residents, and businesses about energy efficiency, and expand opportunities for leadership through behavioral-based learning.
- **Technical Engagement.** The Companies provide platform, software, and technical support to engage communities in energy efficiency, including the EPA's ENERGY STAR Portfolio Manager software (Portfolio Manager). In addition, Eversource will implement customer engagement tools to digitally engage customers with embedded experiences similar to those deployed in the utility's Residential Behavior Initiative.



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### 4.1.1 Priorities

#### Priority 1: Equity

For the 2022-2024 term, the Companies remain focused on the equitable distribution and expansion of their Energy Education, Workforce Development, Community Outreach, and Technical Engagement initiatives. According to a recent ACEEE report, energy efficiency is the largest employer in the clean energy sector and can be a pathway to financial security and career advancement.<sup>98</sup> However, the ACEEE study reports that despite the sector's competitive pay, ethnic and racial minorities, as well as women, make up a smaller percentage of the energy efficiency workforce than the national workforce.

For the 2022-2024 term, the Companies are focused on supporting equity in the energy efficiency workplace. Diversity, equity, and inclusion training will ensure that Connecticut's energy efficiency workforce is as diverse as the communities the workers serve. The more diverse the workforce, the more shared experiences that workforce representatives (technicians, contractors, builders) will have with communities, businesses, municipalities, and neighborhoods. Additionally, the Companies will include extra weighting for certified minority-owned, women-owned, and veteran-owned businesses when evaluating and scoring competitive requests for proposals for program vendors.

Throughout the 2022-2024 term, the *Energize CT Energy in Action* mobile exhibit will tour 40 K-12 schools and 40 community events on an annual basis to promote the Residential and C&I Portfolios. Approximately 60 percent of these tours will be conducted in neighborhoods, towns, and cities where energy efficiency opportunities exist; ensuring communities with high potential for efficiency are reached. This Community Outreach offering is designed to empower visitors to become energy efficiency advocates by making them aware of energy-saving opportunities available to them.

#### Priority 2: Decarbonization

The Energy Education program is designed to inspire students and educators in the K-12 school community to become energy advocates who understand the inextricable link between energy consumption and climate change. The program's curriculum and lessons focus not only on the fiscal benefits of energy efficiency, but also the environmental benefits, including the reduction of greenhouse gas emissions and other harmful air pollutants through energy efficiency, behavioral changes, and the adoption of carbon neutral technologies.

The Workforce Development Initiative's offerings will provide education and training regarding low-carbon technologies, such as heat pumps and heat pump water heaters. Code-plus and Passive House trainings will educate architects, builders, and contractors regarding zero net energy buildings, high-efficiency construction, and advanced building techniques. In addition, the Companies will provide weatherization training to ensure that contractors working in the Residential and C&I Portfolios are prepared to make existing building stock more energy efficient through air sealing, duct sealing, and building envelope improvements (e.g., windows, doors, insulation, proper ventilation). To support the C&I Portfolio's expanded weatherization efforts, the Companies will ramp up their technical and sales training for the C&I

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<sup>98</sup> ACEEE, *Expanding Opportunity through Energy Efficiency Jobs: Strategies to Ensure a More Resilient, Diverse Workforce*, Oct. 20, 2020, at iv, available online at: <https://www.aceee.org/research-report/u2010>.

energy efficiency workforce. These trainings will show C&I contractors how to use calculation tools (e.g., fuel calculator) to predict savings and how to sell weatherization to customers.

The Portfolio Manager software helps businesses and municipalities track their energy and water consumption, as well as their greenhouse gas emissions. Through the Technical Engagement Initiative, the Companies work with groups to ensure that energy data is automatically transferred into the Portfolio Manager software. This ensures a high-speed, accurate transfer of data to help a business or municipality establish energy efficiency and greenhouse gas emissions reductions goals for their buildings and facilities. This technical support also supports clean energy task forces, community-based organizations, and environmental groups in tracking the environmental benefits associated with their energy efficiency efforts.

### Priority 3: Energy Affordability

A key component of the Companies' 2022-2024 efforts will be to help customers, the K-12 school community, and the current and future workforce to understand how energy efficiency reduces customer costs. The Energy Education program helps students, educators, and parents understand how installing an energy-efficient technology results in the reduction of a household's energy consumption; resulting in lower energy bills. The program's energy efficiency curriculum promotes no-cost and low-cost energy conservation behaviors that households, regardless of income, can implement to reduce energy costs and increase affordability. In addition, the program's career and technical training program helps students explore how their school building uses energy and water and guides them toward energy efficiency recommendations for their school. This saves towns and cities on operation and maintenance costs (energy bills and fixing old equipment) and allows those funds to be applied toward in-classroom activities and resources.

Customer education regarding energy affordability is further advanced through the Community Partnership Initiative. This community-based approach focuses on partnerships between the Companies, community-based organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Energy Efficiency Portfolios. The Initiative is designed to break down barriers to participation (e.g., language, ethnic, cultural) and allows the energy affordability message to reach more customers.

The Workforce Development Initiative will also promote energy affordability through contractor education and technical trainings that highlight how energy efficiency helps to reduce residential and C&I customers' bills. Ensuring that the workforce understands how energy efficiency reduces the energy burden of low-and-moderate income customers and optimizes the productivity of businesses is vital to the Companies increasing participation in the programs and driving energy savings in the upcoming term.

## 4.2 ENERGY EDUCATION

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### 4.2.1 Objective

The primary objective of the Energy Education program is to instill an energy-efficient ethic in Connecticut's K-12 schools and empower students and educators to be agents of change in their communities. To implement change, students and educators must have a primary understanding of energy conservation, energy-efficient buildings and technologies, clean

energy jobs, renewable energy sources, and how electricity is generated, transmitted, and distributed to homes, businesses, and schools across the grid. A secondary program objective is to engage Connecticut's K-12 school community—educators, administrators, facilities personnel, and municipal officials—to work toward more energy efficient and sustainable schools. This includes ensuring that the buildings and systems in K-12 schools are sustainable and energy efficient, that the personnel and students who use the school building(s) practice and model energy conservation behaviors, and that the school's curriculum promotes energy efficiency and clean energy technologies.

The Energy Education program provides several offerings, including professional development workshops for educators, in-classroom outreach and support, individual class and large assembly presentations, career and technical trainings, an annual student contest, and a science-based curriculum with energy efficiency, clean energy, and climate change educational lessons and materials. During the upcoming term, the Companies will focus on expanding Energy Education program efforts to ensure that resources and initiatives are equitably distributed statewide.

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#### 4.2.2 Target Market

During the 2022-2024 term, the Companies will target the K-12 school community across the state, including students, educators, facilities and support personnel, administrators, and municipal officials. All Energy Education program efforts are offered statewide, with a particular emphasis on serving K-12 schools located in distressed and Environmental Justice communities. The Companies have made some of these resources available in Spanish and will develop additional resources in other languages as needed.

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#### 4.2.3 K-12 Education

##### K-12 Education Curriculum

Since 2004, the Companies have delivered K-12 curriculum and programming to schools statewide under the *eesmarts*<sup>™</sup> brand. All *eesmarts* lessons focus on the science, technology, engineering, arts, and mathematics (STEAM) related to energy efficiency, clean energy, and climate change topics and are developed to create an engaging learning environment with hands-on activities. The lessons are aligned with Next Generation Science Standards (NGSS) and Common Core Standards for Mathematics and English Language Arts. In addition to the core *eesmarts* curriculum, the Companies have historically partnered with other national energy and sustainability educational organizations to use some of their lessons and activities as supplemental materials. These partnerships are advantageous as they leverage the expertise of other organizations and allow the Companies to focus resources and support on other programmatic offerings.

##### New for 2022-2024

An important measure in the effectiveness of *eesmarts* is to determine how educators are using the lessons and materials in the classroom. For the upcoming term, the Companies will implement a tracking survey or evaluation form to obtain valuable feedback from the implementors of energy efficiency curriculum in the classroom—the educators. Some outcomes from these surveys may include finding out that educators need additional materials to conduct lessons in the classroom or that they need additional training. Throughout the 2022-2024 term, the Companies will solicit educator feedback and execute modifications that enhance program delivery.

In addition, the Companies are focused on supporting the K-12 school community through an expansion of online offerings. During the upcoming term, the Companies will initiate the conversion of *eesmarts* lessons into a web-based or application (App) platform. A finding from program implementation during the pandemic is that K-12 educators need

access to online and consumable lessons on a 24/7/365 basis. This transition to a web-based platform will expand the target market to include home schoolers, distance learners, and parents.

In 2021, the Companies introduced Teacher Mini-Grants to the *eesmarts* platform. On an annual basis, the Energy Education program will award up to five (5) Connecticut formal or informal educators each a \$500 mini-grant for their creation of an original clean energy themed lesson and/or learning sequence for students in grades 7 through 12. These \$500 grants are given to educators who develop and share energy curriculum that enhances teaching, encourages academic excellence, and maximizes opportunities for middle school and high school students to study clean energy sources and technologies.<sup>99</sup> These lessons must be: (1) based on the 5E instructional model (Engage-Explore-Explain-Elaborate-Evaluate)<sup>100</sup> and (2) aligned with NGSS performance expectations and dimensions.<sup>101</sup> The Companies have created a grant application process for educators to submit their clean energy lesson plans and/or learning sequences. The winning lessons and/or learning sequences will be adapted for presentation at the annual *eesmarts* Summer Institute in 2022 and in subsequent years. The Companies plan to integrate winning lessons or learning sequence plans into the *eesmarts* platform.

### *Professional Development Workshops*

To ensure that educators are prepared to implement *eesmarts* lessons in the classroom, the Companies deliver professional development workshops through a third-party educational outreach provider. The purpose of these workshops is to transform K-12 educators into ambassadors who can take back the message of energy efficiency to thousands of students and their families, as well as their professional peers. The workshops focus on modeling inquiry-based STEAM activities regarding energy efficiency and clean energy technologies.

Workshops are offered on school district professional development days and during summer vacation through the *eesmarts* Summer Institute. These workshops typically run for one or two days and focus on energy-related topics, including: energy transformations, energy conservation, energy-efficient technologies, clean energy technologies (solar photovoltaics and wind energy—harnessing the wind), the sun and the water cycle, and climate change. The Companies may continue to offer professional development online to ensure that they reach more educators statewide.

For the 2022-2024 term, the Companies will continue the *eesmarts District Trainer* initiative, which is designed to empower educators, build district capacity, and aid in the adoption and delivery of standards-aligned lessons. The initiative provides an opportunity for educators, coaches, and department heads to become experts in the *eesmarts* energy curriculum and prepares them to deliver training to colleagues in their schools and districts. The *eesmarts District Trainer* virtual professional development is provided at no cost to educators and districts. In addition, the initiative provides incentives to cover the cost of attending the virtual training and workshop materials. Once they have completed their training, *eesmarts* District Trainers agree to deliver a professional development workshop to their colleagues within one year.

For the upcoming term, the Companies will continue to increase the number of educators participating in professional development workshops and to recruit educators who reflect the diversity of the state. These objectives will require an

<sup>99</sup> Annually, up to five educators can receive a Teacher Mini-Grant. Educators can submit only one Mini-Grant application per year.

<sup>100</sup> The 5E Inquiry-Based Instructional Model is based upon cognitive psychology, constructivist theory to learning, and best practices in STEM instruction. See Bybee, R. W., and Landes, N. M. 1990, "Science for Life & Living: An Elementary School Science Program from Biological Sciences Curriculum Study," *The American Biology Teacher*, 52(2), at 92-98.

<sup>101</sup> NGSS has three dimensions for curriculum (engineering practices, disciplinary core ideas, and crosscutting concepts).

increase in the number of professional development workshops offered. To encourage educator participation, the Companies will explore offering educator stipends, as well as expanding their workshop offerings and educator resources.

#### School Assemblies

The *eesmarts* platform has long supported the implementation of school assembly performances and educational presentations on the topics of energy conservation, energy efficiency, clean energy technologies, climate change, and sustainability. These presentations are performed by third-party contractors who specialize in delivering highly engaging and educational performances. For the upcoming term, the Companies will look to expand the number of performances to reach more K-12 schools across the state, especially in distressed and environmental justice communities.

#### In-Class Lessons

For the 2022-2024 term, the Companies will continue to promote in-class lessons as an additional educational channel to reach K-12 students and schools in distressed and Environmental Justice communities. For in-class lessons, a certified educator travels to K-12 schools across the state to teach and reinforce grade-level concepts regarding energy efficiency and clean energy technologies. A key focus of these lessons is to cross-promote programs and technologies supported by the Residential Portfolio.

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#### 4.2.4 Student Contest

Since 2004, the Companies have offered an annual Student Contest for Grades K-12 students across the state.<sup>102</sup> Students are asked to answer grade-level prompts regarding energy efficiency, clean energy technologies, and sustainability. For the 2022-2024 term, the Contest will continue to include prompts such as posters, persuasive images (in words, pictures, or video), narratives, news articles, persuasive essays, book review, limericks, public service announcements, and community-based projects.

The Companies will continue to use an online portal to streamline the Student Contest entry submission process. Student contest finalists are honored at a special awards ceremony held at the Connecticut State Capitol or virtually.

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#### 4.2.5 Green Sustainable Technical Education Program

Since 2010, the Companies have worked with the Connecticut Technical Education & Career System (CTECS) to increase the knowledge and awareness of energy efficiency and clean energy technologies to CTECS instructors and students. This educational and training collaboration has developed over the years into the Green Sustainable Technical Education Program (Green STEP), an education and training initiative designed to help CTECS students gain the knowledge, expertise, and certification to implement sustainable building practices, energy efficiency renovations, and energy-efficient equipment upgrades. For the 2022-2024 term, the Companies and CTECS have established new milestones for Grades 9-12 that introduces career and trade students to energy efficiency basics during their freshman and sophomore years and culminates in trade-related certifications, training programs, science fair projects, and career basics and networking opportunities during their junior and senior years.

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<sup>102</sup> The Student Contest was not offered during the 2018 program year due to the legislative diversion of energy efficiency funds.

The Companies provide technical and project management of Green STEP with the support of a third-party contractor to implement and manage presentations, workshops, and day-to-day coordination with CTECS administrators. The individual milestones for each grade are detailed in Figure 4-A.

**Figure 4-A: Milestones Overview of Green STEP (Grades 9-12)**

Grade 9	Grade 10	Grade 11	Grade 12
<ul style="list-style-type: none"> <li>• <b>Introduction to Green STEP Workshop.</b> Reviews Green STEP, how to read an electric/natural gas bill, and how to read an electric meter</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Introduction to Energy 101 - Home Performance Workshop.</b> Reviews basics of energy efficiency and clean energy technologies, home performance services, energy conservation, and sustainability</li> <li>• <b>Introduction to Fair Workshop.</b> Reviews scientific method, how to begin projects, and potentially compete in annual fair. Green STEP career and science educators participate (1-3 projects per school)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>eesmarts Workshops.</b> <i>eesmarts</i> Solar Curriculum and PLT <i>GreenSchools Investigations</i> (Energy and Water)</li> <li>• <b>Employer &amp; Career Fairs.</b> There are 3-4 fairs at locations across state. Includes workshops and opportunities for networking, internships, and full-time employment</li> <li>• <b>CSEF Projects.</b> Students continue projects, potentially compete in CSEF. Green STEP career and science educators participate (1-3 projects per school)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Trade-Related Trainings.</b> <ul style="list-style-type: none"> <li>- <i>Duct blasting</i> (HVAC and Plumbing, Heating &amp; Cooling departments)</li> <li>- <i>Blower door</i> (Carpentry, Masonry, and Architecture departments)</li> <li>- <i>Heat pump water heaters</i> (Plumbing &amp; Heating or Plumbing, Heating &amp; Cooling departments)</li> <li>- <i>Lighting design and energy codes</i> (Electrical and Bioscience Environmental Technology departments)</li> </ul> </li> <li>• <b>CSEF Projects.</b> Students continue projects, potentially compete in the Fair. Green STEP career and science educators participate (1-3 projects per school)</li> <li>• <b>Optional Track: BPI Building Science Principles Certification.</b> There are 3-4 trainings per school year - locations across state, minimum 1 per region</li> <li>• <b>Optional Track: BPI Building Analyst and Envelope Certification.</b> There are 3-4 trainings per school year - locations across state, minimum 1 per region</li> </ul>

Grade 9

Introduction to Green STEP Workshop

This presentation provides ninth-grade students with an overview of the program’s goals and milestones. In addition, the two-hour workshop provides students with hands-on activities that teach them how to read an electric and natural gas bill and how to read an electric meter.

### Grade 10

#### Introduction to Energy 101 - Home Performance Workshop

This one-day workshop reviews the basics of energy efficiency, clean energy technologies, energy conservation, sustainability, and home performance services offered through the Residential Energy Efficiency Portfolio.

#### Introduction to Connecticut Science & Engineering Fair Workshop

This workshop introduces tenth-grade students to the fair and provides an overview of the Connecticut Science & Engineering Fair's (Fair) Sustainability and Alternative/Renewable Energy judging categories. In addition, the workshop models how to develop and implement a science and engineering project, including a review of the scientific method, the basics of scientific research and inquiry, how to test or conduct trials, and how to analyze results. By the conclusion of the workshop, students will have completed a basic project concept map.

### Grade 11

#### eesmarts Workshop

This one-day workshop trains students on how to conduct investigations into the sustainability of K-12 school buildings. Students conduct hands-on activities using *eesmarts* Grades 9-12 curriculum that focuses on clean energy technologies, such as solar photovoltaic and solar thermal. In addition, the workshop introduces students to two of Project Learning Tree's (PLT) *GreenSchools Investigations* curriculum lessons—Energy and Water.<sup>103</sup> The Energy and Water Investigations are hands-on, student-led explorations to identify areas where improvements can be made to make schools more energy efficient, greener, and healthier.

#### Employer & Career Fairs

This offering gives students the opportunity to network with potential employers and learn about careers in the clean energy sector. In addition, students attend skills training workshops on job interviews and career readiness, including how to write a resume, job interview skills, and business writing skills. Critical feedback from stakeholders in the energy efficiency workforce suggests that these potential recruits should also understand how to meet professional requirements once they are actively employed. For the upcoming term, the Companies may introduce skills training workshops on teamwork, problem solving, interpersonal skills training, and professional conduct.

Outcomes of employer and career fairs include internships, apprenticeships, and full-time employment with energy efficiency and other clean energy sector employers. The Companies will work to develop a performance matrix to track the skills training workshops, develop surveys for feedback for continuous improvement in program delivery, and work with employers at these fairs to track resulting apprenticeships, internships, and full-time job employment. Annually, Green STEP holds three to four employer and career fairs across the state.

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<sup>103</sup> In Connecticut, PLT is jointly coordinated by DEEP and the Connecticut Forest and Parks Association. *GreenSchools Investigations* is a five-part series exploring the sustainability of K-12 schools and is available online at: <https://www.plt.org/green-schools/download-student-investigations/>. As noted in Section 4.2.3, the Companies use other sustainable lessons to supplement the *eesmarts* curriculum.

### Fair Projects

Students take their basic project concept maps created in the tenth-grade workshop and begin their investigations into their selected scientific or engineering project. CTECS career instructors and science educators provide support to students throughout the fair process. Typically, there are one to three projects from each school entered in the Fair.

### Grade 12

#### Fair Projects

This is a continuation of the Grade 11 milestone.

#### Trade-related Trainings

These one-day workshops are held at each CTECS location and focus on trade-related skills for each career or trade department (e.g., Carpentry, Sustainable Architecture). These interactive hands-on workshops reinforce the message to CTECS students that energy-efficient technologies and training will provide them with the knowledge and skills needed to secure employment opportunities in tomorrow's clean energy workforce.

- **Blower door testing.** Students learn how to safely conduct combustion testing on all equipment in order to set-up and run and conduct blower door tests to identify air changes per hour within conditioned spaces. This training is held for students enrolled in the Architecture, Carpentry, and Masonry departments. For the 2022-2024 term, the Companies plan to expand this workshop by creating a certificate program regarding blower door testing for Carpentry, Architecture, and Masonry trade students.
- **Duct leakage testing.** This hands-on workshop introduces duct diagnostics and allows students to set-up and directly pressure test the duct system for air leaks themselves. This training is held for students enrolled in either the HVAC or Plumbing, Heating and Cooling departments. This workshop will also include duct leakage testing training.
- **Heat pump water heaters.** This training introduces this clean energy technology and instructs students on how to properly install the equipment. This workshop is for students enrolled in either the Plumbing & Heating or Plumbing, Heating & Cooling departments.
- **Lighting design and energy codes.** Students learn about high-efficiency lighting, lighting controls, and related technologies in this workshop. In addition, students will learn about energy codes and how they are integrated into the design and construction process. This training is for students enrolled in the Electrical and Bioscience Environmental Technology departments.

For the 2022-2024 term, the Companies are exploring ways to effectively track and monitor Green STEP metrics and outcomes. This will include tracking the number of students receiving certifications, how many internships or apprenticeships resulted from employer and career fairs, and if participants elect to pursue energy efficiency careers. In addition, the Companies will also look to align trainings and certifications with identified career pathways to becoming part of the energy efficiency workforce.



### Optional: Building Performance Institute (BPI) Building Science Principles Certification

This two-day training prepares students to take the certification exam for BPI Building Science Principles. The training focuses on how the various components of a home interact to affect the home’s overall performance. Students learn about the relationships between the building envelope, heating, air conditioning, insulation, mechanical ventilation, lighting, appliances, and other systems of the home and how these systems affect the comfort, health, and safety of occupants and the durability of the home. This pathway also sets aside one day for students to take the exam. For the 2022-2024 term, the Companies plan to include a Building Analyst and Envelope training and certification pathway.

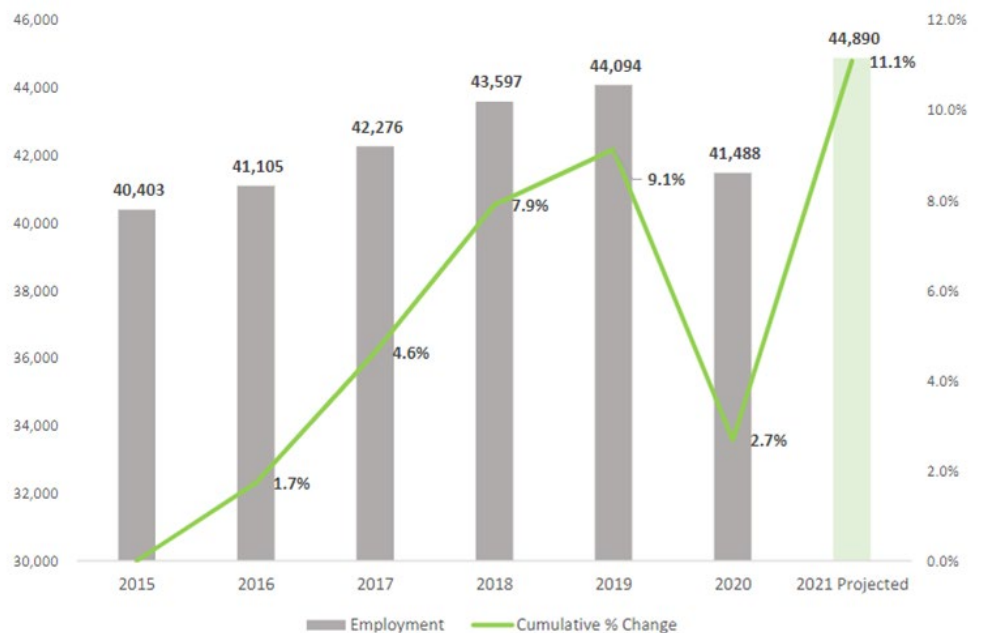
## 4.3 WORKFORCE DEVELOPMENT

### 4.3.1 Connecticut’s Clean Energy Workforce

In September 2021, the Joint Committee of the Energy Efficiency Board and CT Green Bank Board of Directors released its *2021 Connecticut Clean Energy Industry Report*, an in-depth analysis of the state’s clean energy workforce and its resulting economic benefits.<sup>104</sup> This report found that since 2015, Connecticut has established a robust clean energy workforce with more than 41,500 clean energy workers employed in over 4,300 companies within the state’s \$6.5 billion clean energy economy. A clean energy job is defined as any worker who is directly involved with the research, development, production, manufacture, distribution, sales, implementation, installation, or repair of components, goods, or services related to the following sectors: clean energy generation, clean grid and storage, energy efficiency, clean fuels, and alternative transportation.

The report found that growth from 2015 to 2019 was over 9 percent with more than 80 percent of these workers employed within the energy efficiency sector. In 2020, clean energy employment declined by 5.9 percent (2,600 workers) over the 12-month period. The COVID-19 pandemic resulted in wiping out nearly four years of clean energy employment growth across the state, which resulted in sending the clean energy labor market back to 2016 employment levels. Despite these losses, the clean energy industry does predict an 8.2 percent

**Figure 4-B: Clean Energy Employment in Connecticut**



<sup>104</sup> *2021 Connecticut Clean Energy Industry Report*, produced for the Joint Committee of the Energy Efficiency Board and the CT Green Bank Board of Directors by BW Research, Sep. 2021, available online at: <https://www.ctgreenbank.com/wp-content/uploads/2020/11/2020-Connecticut-Clean-Energy-Industry-Report.pdf>. Note: Numbers subject to change between the draft and final report.

employment growth in 2021 with the addition of around 3,400 clean energy jobs. HVAC and ENERGY STAR and efficient lighting technologies accounted for the majority of growth in the energy efficiency workforce since 2017 (1,257 new jobs). The majority of the clean energy workforce is made up of essential construction workers, followed by utilities, professional services, trade, and other services.<sup>105</sup> Clean energy employment is also concentrated across three counties (Hartford, Fairfield, and New Haven) which account for approximately eight in ten clean energy workers in Connecticut (79.4 percent or 32,973 jobs).<sup>106</sup>

The report also studied the diversity, equity, and inclusion of Connecticut's clean energy workforce and determined that 9.9 percent of clean energy jobs are held by Veterans of the US Armed Forces in the state; higher than the national average of 9.0 percent. However, the diversity of Connecticut's clean energy workforce is lower than the national average for Hispanic or Latinx workers (11.1 percent compared to 16.5 percent) and Black or African-American workers (6.3 percent compared to 8.4 percent).<sup>107</sup> This snapshot of the makeup of Connecticut's current clean energy workforce will help inform the Companies in their development of a workforce development strategy focused on diversity, equity, and inclusion for the 2022-2024 term. The Companies remain focused on growing and diversifying the state's energy efficiency workforce which will help them meet the state's energy efficiency and demand management goals.

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#### 4.3.2 Objectives

The Companies play an essential role in preparing and training current and future workers in the energy efficiency sector. The primary objective of the Workforce Development Initiative is to ensure that Connecticut and the Northeast region have a well-trained, diverse energy efficiency workforce that supports both the Residential and C&I Portfolios.

For the 2022-2024 term, the Companies' key objectives for the Workforce Development Initiative are to:

- Build upon the *2017 Connecticut Energy & Energy Efficiency Workplace Needs Survey*, previous reports from external stakeholders, and the recently administered Connecticut Energy Efficiency Workforce Development Contractor Survey and Residential and C&I focus groups by administering an Energy Efficiency Workforce Study. This study will serve to increase access to data that can inform the current landscape of energy efficiency workforce development in Connecticut and will focus on identifying key stakeholders in energy efficiency workforce development to expand the Companies' understanding of energy efficiency roles and how the utilities can best engage in this ecosystem. This study will comprise of additional research to include a deeper analysis on resource, landscape forecasting, understanding the role of diversity in the workforce, and identify barriers in the workforce and the role of geography in the workforce. This study will provide recommendations on how to best support and advance equity for current and future employees and contractors in the workforce.
- Invest in upskilling the current and future energy efficiency workforce through trainings, contractor education, and outreach regarding topics such as new building codes, energy-efficient technologies, demand reduction strategies, zero energy building design, and sales strategies.

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<sup>105</sup> Clean energy jobs also include supporting services such as consulting, finance, legal, and tax services related to energy. See [2020 Connecticut Clean Industry Report](#), at 35.

<sup>106</sup> [2020 Connecticut Clean Industry Report](#), at 30.

<sup>107</sup> [2021 Connecticut Clean Industry Report](#), at 20.

- Explore proactive workforce development strategies that focus on growing the energy efficiency workforce by engaging with community-based organizations, business and community partners, state agencies, and educational institutions in ongoing workforce development efforts.
- Work in partnership with external stakeholders to identify opportunities to recruit and train a more diverse workforce as to collectively invest and impact the energy efficiency workforce.
- Design the Workforce Development Initiative’s offerings to be flexible so modifications can be made quickly to address policy changes, new technologies, identified gaps in training or certifications, and workforce needs.
- Increase the Companies’ outreach to CTECS, vocational, other public high schools, community colleges, and community-based organizations to promote technical trainings and certifications as pathways into the energy efficiency workforce.

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### 4.3.3 Regional Training Coordination

In April 2020, due to the pandemic, the Companies collaborated with other energy efficiency administrators in the Northeast to quickly launch an online delivery platform. Virtual workshops provided back-to-work safety trainings that had to be conducted prior to on-premises work in homes and businesses beginning again in June 2020. The Companies and other state program administrators also collaborated to deliver multiple virtual skillset workshops and trainings to the Residential and C&I contractor communities in Connecticut and across the Northeast. For the upcoming term, the Companies will continue to leverage regional training efforts, best practices, and research to inform the strategy for the Workforce Development Initiative. In addition, the virtual training platform proved to be a successful pathway in engaging the contractor community and the Companies will continue to offer trainings online and in-person to expand their reach statewide to current and future energy efficiency workers.

The Companies recognize the need to identify pathways for individuals to join the energy efficiency workforce. Other careers and trades, such as welders and manufacturing technicians, typically have a clear, set pathway and progressive steps to joining that industry’s workforce. For energy efficiency careers, there are multiple pathways to becoming a member of the workforce and the uncertainty of which certifications, trainings, and expertise are needed to enter and advance up the career ladder can serve as a barrier to recruitment and retention. In 2019, the Connecticut legislature passed Public Act 19-35, *An Act Concerning a Green Economy and Environmental Protection*, which charged the Connecticut Department of Labor’s Office of Work Competitiveness (OWC) with establishing a career ladder for jobs in the green technology industry (e.g., HVAC mechanics and installers, electricians, engineers).<sup>108</sup>

For the upcoming term, the Companies will work with contractors, stakeholders, and state agencies (i.e., DEEP, OWC) to assess the needs of the energy efficiency workforce. This will include identifying energy efficiency employer needs for different markets (e.g., low-income homes, manufacturers, municipalities, and small businesses) and determining what the skills, education, certification, and experience requirements are for energy efficiency jobs. A similar effort was conducted for the Massachusetts Program Administrators and the Companies will integrate the lessons learned in that needs assessment to determine what the progressive steps are (e.g., certifications, trainings, etc.) to joining the energy

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<sup>108</sup> Public Act 19-35, *An Act Concerning a Green Economy and Environmental Protection*. Ten career profiles in clean energy were created in collaboration with the OWC, BW Research, and the Joint Committee of the Energy Efficiency Board and CT Green Bank Board of Directors and are posted at [www.ctgreenjobs.com](http://www.ctgreenjobs.com).

efficiency workforce.<sup>109</sup> Stakeholder collaboration will focus on how to effectively recruit and retain energy efficiency workers through effective communications regarding job expectations, career ladders, required certifications and trainings, salary levels, and career advancement.

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#### 4.3.4 Training the Workforce

The design of the Workforce Development Initiative is flexible in order to change with the continuously shifting needs of the energy efficiency sector and its workforce. Over the last several years, the Companies have collected feedback from workforce partners (primarily community-based organizations), CTECS and other vocational schools, contractors, trade allies, and active participants in the workforce in order to use the data and information to determine upcoming and future goals for the Workforce Development Initiative. Through these feedback sessions, the Companies have identified opportunities to expand and increase the effectiveness of the Workforce Development Initiative, including the need to reach younger audiences and the need to expand trades and technical training outside of two- and four-year college degree programs.

For the 2022-2024 term, the Companies will focus on expanding their current workforce partnerships with government agencies, municipalities, Community Action Agencies, community-based organizations, and educational institutions to broaden their recruitment efforts to reach younger audiences. This will allow the Companies to engage with ongoing workforce development efforts and leverage the resources and expertise of business, community, municipal, and state partners.

##### *High Schools and Community Colleges*

To reach a younger workforce, 18-to-24-year-olds, the Companies plan to expand workforce development beyond CTECS and to provide technical trainings and certifications similar to Green STEP's offerings to public high schools, vocational, and community colleges. At first, these offerings may develop slowly with the introduction of only one or two trainings and certifications at these educational institutions. Once the Companies and educational institutions have seen successful engagement and recruitment, the offering could expand to encompass additional trainings, job skills workshops, and internship/apprenticeship pathways. The effectiveness of these pilot offerings will be determined by establishing metrics that will track progression and success.

In addition, the Companies will reinitiate efforts with the 17 Connecticut State Colleges & Universities to promote workforce development degree programs, certificate programs, and trainings. Currently, Connecticut's 12 community colleges are consolidating into one singly accredited institution and are working to align academic programs, assessments, policies, and procedures. This consolidation provides the Companies with an opportunity to collaborate again with the state's community colleges to develop degree and certificate programs to prepare students for careers in the energy efficiency sector.<sup>110</sup>

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<sup>109</sup> Massachusetts Energy Efficiency Workforce Development Needs Assessment, conducted by BW Research Partnership on behalf of the Massachusetts Program Administrators, available online at: <https://ma-eeac.org/wp-content/uploads/Massachusetts-Energy-Efficiency-Workforce-Development-FINAL-REPORT-CAREER-PROFILES.pdf>

<sup>110</sup> Connecticut Board of Regents for Higher Education, Endorsement of Revised Students First Plan, Jun. 21, 2018, available online at: <https://www.ct.edu/files/pdfs/SF-Update.pdf>

### *Learning Laboratories*

The E-House Initiative created on-site learning laboratories for the Connecticut Technical Education and Career System's (CTECS) high school students and trade instructors where hands-on learning and green workforce development flourished. The laboratories were designed and built by CTECS students and instructors. Built between 2011 and 2018, these structures featured high-efficiency and clean energy technologies and were funded through a joint collaboration between the Energy Efficiency Fund and the CT Green Bank. Students involved in the construction of the buildings learned about high-efficiency building techniques, energy-efficient design and technologies, and how to integrate energy efficiency and clean energy technologies in buildings to reduce energy consumption and greenhouse gas emissions. There were nine E-Houses completed across the state and some are still used to implement components of the Companies' Green STEP offering.<sup>111</sup>

For the 2022-2024 term, the Companies will work with CTECS to make upgrades to existing E-Houses and to establish new Learning Laboratories. The growth of the Learning Laboratories Initiative will be organic over the 2022-2024 term; thus, allowing the Companies to develop comprehensive metrics that can track outcomes (i.e., completed trainings, job placement, apprenticeships, internships).

### *Industrial Assessment Center*

Small, medium, and large manufacturers are responsible for approximately 40 percent of annual electric consumption in the state and are the backbone of Connecticut's economy. For the 2022-2024 term, the Companies plan to provide support for the Industrial Assessment Center that will be located at the University of Connecticut, as well as a satellite center at the University of New Haven. The Industrial Assessment Center will support the Companies' efforts to fill a knowledge gap in the current energy efficiency workforce—a key understanding of energy engineering and energy economics. The opening of this facility will offer valuable training and workforce development opportunities to engineers and other energy professionals in Connecticut, as well as serve as a complementary pipeline of workers to support the Companies' new C&I Portfolio offering, the Small Manufacturing Initiative.

### *C&I Trainings*

For the upcoming term, the Companies will continue to focus resources, educational programming, and technical support to promote clean energy workforce development in the state and region. Planned C&I trainings will include topics such as HVAC technologies and controls, refrigeration equipment and controls, demand reduction strategies, emerging technologies, advanced lighting and controls, whole building design, code-plus initiatives, and salesforce training. Descriptions of some of the planned C&I trainings are detailed below:

- **Building Operator Certification.** This nationally recognized training and certification program focuses on energy-efficient building operations and preventative maintenance procedures. Facilities with BOC graduates are proven to save energy, have lower energy bills, and offer an improved comfort for occupants. For the upcoming term, the Companies will also offer BOC sales training.

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<sup>111</sup> Completed E-Houses were constructed at E.C. Goodwin (New Britain), Henry Abbott (Danbury), Howell Cheney (Manchester), Oliver Wolcott (Torrington), Platt (Milford), Vinal (Middletown), W.F. Kaynor (Waterbury), Bullard-Havens (Bridgeport), and Ella T. Grasso (New London).

- **Portfolio Manager.** The EPA's online software tool is used to measure and track a building's energy and water consumption, as well as greenhouse gas emissions. The software can benchmark the performance of one building or a whole portfolio of buildings. The Companies encourage C&I vendors, particularly SBEA contractors, to attend these online seminars and explore how the benchmarking software can help them target market segments and identify energy and carbon-saving opportunities.
- **Salesforce Training.** This is a series of courses designed to teach contractors about sales approaches to varied market segments and to make the case for energy efficiency (e.g., reduced energy bills, improved productivity, lower O&M costs). This market segment training will review energy efficiency opportunities typically used for business and customers in similar market segments, such as restaurants and grocery stores.
- **Certified Energy Manager (CEM) Training.** This intensive four-and-a-half-day course is designed as a preparatory training for the CEM examination. This course, offered through the Association of Energy Engineers (AEE), is widely accepted as a measure of professional accomplishment within the energy management field. The CEM training and credential certificate reviews the basics of energy-efficient improvements as they relate to electrical, utility, building, and combustion systems.
- **Green Professional Building Skills (GPRO) Training.** This is a series of courses and certificate exams designed to teach the principles of sustainability combined with trade-specific green construction knowledge. GPRO training will help participants meet the expectations of owners and tenants who want healthier, environmentally sustainable, and energy-efficient homes and businesses. The Companies will offer these trainings in partnership with the CT Green Building Council.
- **Code Trainings.** The Companies will offer technical trainings and educational outreach to the C&I design and build community to make them aware of the IECC 2021 and Connecticut-specific amendments. The Companies plan to conduct multiple code trainings throughout the 2022-2024 term to prepare architects, builders, engineers, code officials, and contractors for the new building code.
- **Refrigeration Equipment and Controls.** Participants will learn about high-efficiency refrigeration equipment and controls and how to properly identify the correct technology and design for different market sectors.
- **Lighting and Lighting Controls.** These trainings will review connected lighting systems (CLS), advanced lighting control systems (ALCS), and emerging LED technologies. Participants will learn how to identify appropriate comprehensive applications for these technologies, and how to access energy-efficient incentives through the Companies' Energy Efficiency Portfolios.
- **Networked Lighting Controls (NLC).** This course prepares participants to explain the features and benefits that NLC offer and how to configure them to maximize the benefit for any given situation. The course reviews the different types of NLCs and how to select the right systems for a given customer and application.
- **Heat Pump and High-Efficiency HVAC Equipment and Controls.** The Companies will offer trainings regarding high-efficiency HVAC equipment and controls, including heat pump technologies.

- **Compressed Air Challenge.** The Compressed Air Challenge is a series of training seminars to help energy managers and facility personnel evaluate their facility’s compressed air system and apply proven techniques to reduce operating costs and improve productivity, product quality, system reliability and competitiveness.
- **Variable Refrigerant Flow (VRF) Systems—Designs and Opportunities.** This is introductory training regarding energy-efficient heat pump and VRF technologies. The workshop explains how these technologies and systems work, compares their performance to other heating and cooling equipment, helps contractors identify appropriate applications for the technologies, and educates customers and contractors regarding how they can access energy-efficient incentives through the Companies’ Energy Efficiency Portfolios.

### Residential Workforce Trainings.

For the 2022-2024 term, the Companies will offer a comprehensive Residential Workforce training platform for customers, contractors, trade allies, and other stakeholders. These trainings will focus on high-efficiency HVAC equipment and controls, heat pump technologies, sales training, code-plus training, HERS rating, Passive House certification, Zero Energy Ready Homes, and demand reduction strategies. Descriptions of some of the planned Residential trainings are detailed below:

- **Code Trainings.** The Companies will offer technical trainings and educational outreach to the residential new construction community to make them aware of the IECC 2021 and Connecticut-specific amendments. The Companies plan to conduct multiple code trainings throughout the 2022-2024 term to prepare architects, builders, designers, developers, engineers, estimators, raters, municipal officials, verifiers, code officials, and contractors for the new building code.
- **BPI Infiltration and Duct Leakage (IDL) Training.** These training sessions will focus on helping HES and HES-Income Eligible technicians gain the skills needed to offer duct leakage and blower door tests, in compliance with IECC codes for new home construction or existing home remodels. By earning the IDL certification, technicians will prove they can conduct duct leakage tests to the STM E1554-07 standard and blower door tests to the ASTM E779 standard.
- **Heat Pump Technologies.** In 2021, the Companies launched a comprehensive heat pump training plan that will continue in the upcoming term with modifications. These trainings will predominately target the HVAC contractor community. This training plan will also provide Home Performance vendors with fundamental training on heat pumps to strengthen their conversational competence regarding heat pump technologies and learn how the integration of HVAC controls can optimally operate the heat pump and the existing heat source.
- **Passive House Training.** The objective of the Passive House training is to transform the energy efficiency and building construction industries by providing up-to-date credentials from PHI and PHIUS. There are three training channels: lunch and learns, building science workshops, and Passive House accreditations. The Companies will offer these trainings in partnership with Passive House Connecticut.
- **Sales Training.** These trainings will focus on helping HES and HES-Income Eligible vendors identify and implement effective sales and marketing strategies to promote home performance services programs and rebates.
- **Insulation Boot Camps.** These “boot camps” will drive best-of-class performance from HES and HES-Income Eligible vendors, as well as insulation contractors. These trainings will focus on how to identify insulation needs in

the home, proper installation techniques, and how to complete the insulation form or rebate properly for submittal to the Companies. HES and HES-Income Eligible will have a tiered-incentive process where vendors and contractors who attend these trainings will be eligible for a higher incentive.

## 4.4 COMMUNITY OUTREACH

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The Companies created the Community Outreach program to educate the public regarding Connecticut's energy efficiency and demand management programs and the resulting economic, environmental, and societal benefits realized by their implementation. For the upcoming term, the Companies plan to implement two Community Outreach program offerings: Community Engagement and Educational Exhibits. These offerings are designed to deliver the message of energy efficiency to different communities—neighborhood, educational, ethnic, cultural, and/or social—and to empower residents, businesses, and students within those communities to participate in Residential and C&I Portfolio programs.

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### 4.4.1 Community Engagement

Launched during the 2021 program year, the Community Partnership Initiative is an enhanced place-based approach to engaging communities in Connecticut's energy efficiency and demand management programs. This engagement initiative focuses on increased partnerships with community-based organizations to reach neighborhoods and communities who have historically lower engagement levels with energy efficiency. The Partnership emphasizes outreach to the following select groups:

- Customers within a distressed community or census block,
- Residents with limited English proficiency,
- Low- and moderate-income customers,
- Renters in single-family homes or multifamily buildings up to 4 units, and
- Small businesses.

The Community Partnership Initiative leverages community-based organizations' trusted relationships and knowledge of communities to strengthen awareness of energy efficiency and to measurably increase program participation by residential customers and small businesses. The Companies note that these partnership efforts will not supplant current and future residential and small business marketing in Connecticut by the Companies but are viewed as an additional layer of marketing and outreach to customers in the select groups referenced above.

The Companies solicit applications from community groups, nonprofit organizations, and municipalities willing to partner with the Companies to join the Community Partnership Initiative and receive funding for energy efficiency outreach efforts. Applicants describe their planned outreach efforts, marketing campaigns, which communities will be served, and key performance metrics (i.e., which energy efficiency programs they intend to increase participation in within the community). If the partnership application is accepted, participating community groups, nonprofit organizations, and municipalities will receive start-up funds, technical support, marketing materials and support, and performance-based incentives for increasing participation in energy efficiency and demand management programs. The Companies will give preference to organizations and municipalities who partner together on the application and who plan to conduct joint grassroots organizing, public education, and engagement activities.



Proposed energy efficiency outreach projects must reach at least 200 to 500 households or at least 5 to 30 unique businesses per community. Partnership funding awards range from \$5,000 to \$25,000 and are based on the project submitted on the application. Partnerships located in designated high-need communities, as defined by the Connecticut Department of Economic and Community Development (DECD) as a distressed municipality will be 20 percent higher than for other projects.<sup>112</sup> Once participants are selected, the Companies will coordinate with the selected participants via meetings, periodic calls, and best practices trainings throughout the term of the Partnership.

The Companies have applied the best practices and lessons learned from previous community-based programming to develop components of the Community Partnership Initiative. The inclusion of start-up funds is a direct result from feedback from community-based organizations and environmental groups about the initial investments needed in a community before performance-based metrics can be met. In addition, the Companies have established a one-year term on meeting the key performance indicators and program participation goals to factor in the time it takes to initiate, develop, and earn the trust of a community when conducting outreach efforts. The intent of the Community Partnership Initiative is to earn the trust of, and engage, communities across the state. As with all their programs, the Companies will continuously review the Initiative's results and processes to determine where improvements can be continuously made. The Community Partnership Initiative is designed as a dynamic engagement tool that is flexible enough to shift and morph based on the events and needs that shape Connecticut's communities.

For the 2022-2024 term, the Companies will continue to implement the Community Partnership Initiative as an engagement channel to communities to promote energy efficiency and demand management programs. If successful and demand is high, the Companies will look to expand the offering. The Companies will collaborate with community-based organizations, clean energy task forces, environmental groups, municipal and local governments, and faith-based organizations from across the state to reduce the racial, social, cultural, ethnic, and economic barriers that limit participation levels in Connecticut's energy efficiency programs.

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#### 4.4.2 Educational Exhibits

For more than 20 years, the Companies have developed community partnerships with museums, science centers, nature centers, and community groups to promote energy efficiency and its benefits through educational exhibits and programming. For the upcoming term, the Companies are focused on delivering mobile entertainment-based and behavioral learning-based exhibits, programming, and learning experiences directly to communities across the state. The Educational Exhibits Initiative will inspire Connecticut adults and children to be agents of change in their homes, schools, communities, and businesses. Through interactive and hands-on activity stations, the Educational Exhibits Initiative will inspire energy efficiency advocacy, promote the Residential and C&I Portfolios, and educate visitors regarding career opportunities in the energy efficiency workforce.

##### *Energize CT Energy in Action Mobile Exhibit*

The *Energize CT Energy in Action* mobile exhibit's (Exhibit) objective is to inspire energy efficiency advocacy through entertainment-based and interactive learning programming and exhibits. The Exhibit will focus on energy efficiency topics including energy efficiency concepts, energy conservation behaviors, weatherization services, clean energy sources and technologies, and energy-efficient technologies, such as lighting/controls, insulation, induction cooktops, HVAC

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<sup>112</sup> These areas are defined as municipalities or U.S. Census blocks with high concentrations of unemployment and poverty, aging housing stock and low or declining rates of growth in job creation, population, and per-capita income.

equipment, building techniques, and windows. In addition, the Exhibit will also explore career opportunities in the energy efficiency workforce and highlight the Workforce Development Initiative.

The Exhibit will be designed to challenge visitors to become advocates who share their knowledge gained regarding energy efficiency with their families, friends, and communities. The Companies and implementation contractor have formulated four main concepts and/or groups for the Exhibit's various hands-on, interactive stations and career explorations:

- **Energy efficiency concepts.** These Exhibit stations will explore: (1) light energy and conservation through high-efficiency lighting and LED technologies, (2) heat energy and how proper insulation and air sealing techniques can save energy, (3) energy vampires and the use of smart plugs/advanced power strips, (4) water conservation behaviors and technologies, and (5) carbon footprints and how visitors can reduce theirs to positively affect the environment.
- **Clean energy sources and technologies.** This Exhibit station will explore the intersectionality of energy efficiency and clean energy source. The stations will explore what is a renewable vs. non-renewable source, windmills and solar photovoltaic/thermal technologies and how they work, and the global environmental impacts of using more renewable energy sources and technologies (i.e., reduced greenhouse gas emissions).
- **Visitor challenge.** This Exhibit station will ask visitors to put all the information together and determine which changes they will make with their newfound knowledge of energy efficiency. The station will quiz them on their knowledge gained and focus on what they can do in their own homes, businesses, and communities to drive energy efficiency, reduce energy costs, and decrease greenhouse gas emissions. This reflection station will culminate in a pledge regarding which energy efficiency action steps they will take after leaving the Exhibit.
- **Career explorations.** This Exhibit station will allow visitors to explore the careers and career paths in energy efficiency.

During the 2022-2024 term, the Exhibit will tour 40 K-12 schools and 40 community events on an annual basis to promote the Residential and C&I Portfolios. Approximately 60 percent of these tours will be conducted in communities with historically lower engagement levels with energy efficiency due to economic, social, racial, ethnic, and/or cultural barriers. For K-12 schools, the exhibit's implementation contractor will develop an educator's resource guide (pre- and post-experiments), cross-curricular links, science literacy and digital resources, assessment quizzes, custom Kahoot quizzes to be used by educators to reinforce show's content, home labs for at home activities linked to the show's content, and a survey using Survey Monkey or Google Forms to keep track of metrics. Similar resources will be created for visitors at community events who wish to explore the topic of energy efficiency further.

### *Museum Partnerships*

The Companies will continue to explore community partnerships with museums, nature centers, and science centers in the upcoming term. As needed, the Companies will work with science and educational centers to support local community outreach, educational programming, installation of exhibits, and special events to promote energy efficiency. Support will be provided to those Museum Partnerships focused on direct outreach within communities, especially those designated by the DECD as distressed.

## 4.5 TECHNICAL ENGAGEMENT

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For the 2022-2024 term, the Companies will continue to provide platform, software, and technical support to engage Connecticut's residents, businesses, and municipalities in energy efficiency. This technical engagement support includes providing data sharing and training for the EPA's ENERGY STAR Portfolio Manager software. In addition, Eversource has developed several customer engagement tools to digitally engage customers with embedded experiences similar to those deployed in the company's Residential Behavior Initiative (*see Section 2.8*).

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### 4.5.1 ENERGY STAR Portfolio Manager

For the 2022-2024 term, the Companies will continue to encourage municipalities and businesses to utilize the Portfolio Manager software to track their energy and water consumption, as well as related greenhouse gas emissions. The Companies will continue to provide technical support in the automatic transfer of billing data to Portfolio Manager. This automatic data transfer eliminates the need for municipal and small business employees to enter utility billing data manually.

In addition, the Companies will continue to provide benchmarking and data analysis support to Connecticut towns and cities who request support. This support will be provided through the technical expertise of the Companies and third-party experts.

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### 4.5.2 Customer Engagement Tools (Eversource only)

For the upcoming term, Eversource plans to integrate customer tools on its website to digitally engage residential electric and natural gas customers with embedded experiences similar to those used for the Residential Behavior Initiative. These digital engagement tools (e.g., data browsers, bill comparisons) create meaningful interactions between Eversource and the customer on the company's website. These tools provide digital interactions where a customer can track and compare their energy consumption over time while providing Eversource with the opportunity to use embedded messaging to promote customized energy efficiency solutions. For example, if the bill comparison tool indicates that a customer's electric bill was high compared to the previous year's, then the customer engagement tools would push embedded behavioral prompts to the customer on the website (e.g., purchase a smart thermostat, purchase a high-efficiency HVAC unit, or turn your thermostat up to 78 degrees).

The integration of these digital tools will provide customers with embedded experiences consistent with the web and email communications received through the Residential Behavioral Initiative. Eversource sees this integration as an important communication tool to digitally engage customers. These behavioral prompts will be implemented by Eversource in-house through the use of third-party software.

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### 4.5.3 Research, Design & Development

Another process for continuous improvement is the joint-utility Research, Design & Development (RD&D) and Program and Policy Working Group. The Policy Working Group is responsible for conducting technical reviews and determinations of a fully commercialized energy-efficient product's eligibility, suitability, or applicability for referral to an existing program in the Companies' Portfolios. The proposed products or technologies must reflect verifiable and persistent energy efficiency improvements to be approved. This is another pathway for innovation and the introduction of fully-tested and piloted energy efficiency measures to the Residential and C&I Portfolios. For the 2022-2024 term, the

Companies, in consultation with the EEB, will investigate having the Policy Working Group review its charter and identify opportunities for the group to take a more active role in investigating new technologies for the Residential and C&I Portfolios.

## 4.6 ANNUAL BUDGETS

Throughout the 2022-2024 term, the Companies will continue to deliver an Education, Workforce, Community Outreach, and Technical Engagement Portfolio that delivers innovative solutions, customer outreach, comprehensive education, and valuable workforce development opportunities across the state. The annual program year budgets for the 2022-2024 term are detailed below.

**Figure 4-C: Annual Budgets for Education, Workforce, Community Outreach & Technical Engagement (2022-2024)**

PROGRAM NAME	Eversource Electric	United Illuminating Electric	Eversource Gas	CNG	SCG	Total
<b>Energy Education</b>						
K-12 Professional Development and Outreach	\$352,000	\$88,000	\$36,667	\$36,667	\$36,667	\$550,000
Green STEP	\$320,000	\$80,000	\$33,333	\$33,333	\$33,333	\$500,000
Student Contest	\$64,000	\$16,000	\$6,667	\$6,667	\$6,667	\$100,000
<b>Total: Energy Education</b>	<b>\$736,000</b>	<b>\$184,000</b>	<b>\$76,667</b>	<b>\$76,667</b>	<b>\$76,667</b>	<b>\$1,150,000</b>
<b>Workforce Development</b>						
Training	\$396,800	\$99,200	\$41,333	\$41,333	\$41,333	\$620,000
Learning Laboratories	\$320,000	\$80,000	\$33,333	\$33,333	\$33,333	\$500,000
Industrial Assessment Center	\$76,800	\$19,200	\$8,000	\$8,000	\$8,000	\$120,000
<b>Total: Workforce Development</b>	<b>\$793,600</b>	<b>\$198,400</b>	<b>\$82,667</b>	<b>\$82,667</b>	<b>\$82,667</b>	<b>\$1,240,000</b>
<b>Community Outreach</b>						
Community Engagement	\$320,000	\$80,000	\$33,333	\$33,333	\$33,333	\$500,000
Educational Exhibits	\$448,000	\$112,000	\$46,667	\$46,667	\$46,667	\$700,000
<b>Total: Community Outreach</b>	<b>\$768,000</b>	<b>\$192,000</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$80,000</b>	<b>\$1,200,000</b>
<b>Customer Engagement Initiative</b>						
Customer Engagement Tools	\$320,000	\$ -	\$50,000	\$ -	\$ -	\$370,000
Portfolio Manager	\$80,000	\$80,000	\$20,000	\$50,000	\$50,000	\$280,000
<b>Total: Customer Engagement Initiative</b>	<b>\$400,000</b>	<b>\$80,000</b>	<b>\$70,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$650,000</b>
<b>TOTAL</b>	<b>\$2,697,600</b>	<b>\$654,400</b>	<b>\$309,333</b>	<b>\$289,333</b>	<b>\$289,333</b>	<b>\$4,240,000</b>

## SECTION FIVE: BENEFIT-COST SCREENING

### 5.1 OVERVIEW

For the 2022-2024 Plan, the Companies used identical benefit-cost (B/C) methodologies for program and measure screening. The B/C screening tools contain consistent methodologies and the same sources for program-induced avoided costs and benefits. The electric and fossil fuel avoided costs are based on a regional avoided energy supply cost study completed in 2021 for New England<sup>113</sup> (2021 AESC). The transmission and distribution (electric) avoided costs are based on studies conducted by the Companies in 2017.<sup>114</sup>

The 2022-2024 Plan was screened on an annual basis by each Company for the 2022, 2023, and 2024 program years (5 sets of Company B/C tables x 3 years). In addition, a combined statewide B/C table is provided for each program year. These statewide combined B/C tables include all benefits and costs from the electric and natural gas programs rolled up into three annual portfolio tables.

The Companies use the Connecticut Program Savings Document (PSD) to verify savings assumptions, including the results of program evaluations.<sup>115</sup> The PSD provides engineering estimates, savings algorithms, and measure life estimates used by the Companies within their programs. The PSD also reflects the results of evaluations by providing realization rates to “true-up” savings based on third-party independent evaluations.

All electric and natural gas conservation measures in the 2022-2024 Plan are evaluated within an integrated supply-and-demand planning framework to ensure that the programs are cost-effective and yield positive net benefits to customers. Use of common cost-effectiveness testing methodologies and savings assumptions allows DEEP, the Connecticut Public Utilities Regulatory Authority (PURA), the EEB, and others to compare the benefits, costs, and B/C ratios on a program and measure basis. This chapter provides details on the B/C tests utilized in the 2019-2021 Plan and this 2022-2024 Plan, include:

- Use of avoided costs from the 2021 AESC;
- Types of B/C tests to be used in the 2022-2024 Plan; and
- Benefits used within each of the B/C tests and their source.

<sup>113</sup> Synapse Energy Economics, Resource Insight, Les Deman Consulting, North Side Energy, Sustainable Energy Advantage, *Avoided Energy Supply Cost Study in New England: 2018 Report*, Mar. 30, 2018.

<sup>114</sup> Eversource values are based on: ICF International, *Assessment of Avoided Cost of Transmission and Distribution*, Jul. 17, 2017. United Illuminating values are based on: Harbourfront Group, Inc., *Avoided Transmission & Distribution Cost Study Report, 2000-2026*, Aug. 1, 2017.

<sup>115</sup> The Companies' PSD is filed annually as part of the Electric and Natural Gas Companies' C&LM Plan or Plan Update. The PSD is a centralized reference of savings (e.g., energy, capacity, fossil fuel, and other non-electric) assumptions used by the Companies within the energy efficiency programs.

## 5.2 AVOIDED ENERGY SUPPLY COST STUDY

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Most of the avoided costs used in the Companies' B/C testing were updated for the 2022-2024 Plan based on the completed 2021 AESC study.<sup>116</sup> Avoided costs were estimated using the provided "User Interface" as part of the 2021 AESC study that allowed for the creation of avoided cost tables for specific states and scenarios. The 2021 AESC was sponsored by New England energy efficiency program administrators. In addition, other non-utility parties (e.g., regulators and consultants) formed the Avoided Cost Study Group to oversee the development of the 2021 AESC. Previous iterations of an avoided cost study were conducted on a biennial basis. However, beginning in 2015, the AESC moved to a three-year cycle which coincides with the current three-year planning cycle in Connecticut. The 2022-2024 Plan coincided with the release of the 2021 AESC.

## 5.3 BENEFIT-COST TESTS

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### 5.3.1 Benefit-Cost Tests

The following three B/C tests were utilized for the 2022-2024 Plan. The B/C tests compare the net present value of program induced avoided costs with the cost to achieve the benefits. These three B/C tests have been used since the 2015 Plan and include: (1) the Utility Cost Test, (2) the Modified Utility Cost Test, and (3) the Total Resource Cost Test. These tests are summarized below, and additional details are provided in Figure 5-A.

- **The Utility Cost Test (UCT)** includes the value of utility-specific benefits and program costs associated with those benefits. For example, the UCT includes energy avoided costs from electric and natural gas conservation measures/programs and all program costs associated with acquiring those benefits. The UCT does not include customer out-of-pocket costs, or costs or benefits associated with oil or propane savings. Nor does the UCT include NEIs or the non-embedded value of greenhouse gas emissions reductions.
- **The Modified Utility Cost Test (MUCT)** includes all benefits and costs as the UCT. In addition, the MUCT includes oil and propane-avoided costs, and the program costs associated with acquiring oil and propane savings. In 2021, in coordination with the launch of the C&I Heat Pump pilot and consistent with DEEP's direction in their Approval with Conditions of the 2020 Plan Update, the MUCT will also be applied to electric C&I programs that have oil or propane savings.
- **The Total Resource Cost Test (TRC)** includes all energy and non-energy benefits, such as water savings, non-embedded emissions, environmental attributes, and non-energy impacts. On February 19, 2020, DEEP issued their Approval with Conditions for the 2020 Plan Update, including Compliance Order No. 2 directing the Companies to include NEIs into the HES-Income Eligible program.<sup>117</sup> In addition, the TRC includes all costs associated with acquiring these savings. This includes program costs and customer out-of-pocket costs.

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<sup>116</sup> Synapse Energy Economics, Inc., *Avoided Energy Supply Component in New England: 2021 Report*, Mar. 15, 2021.

<sup>117</sup> NEIs are based on Table A6-1 in the 2021 PSD manual per DEEP's Approval with Conditions of the 2020 Plan Update, Conditional Item No. 2, available online at: [https://www.energizect.com/sites/default/files/Approval%20of%20CLM%202020%20Plan%20Update\\_Conditions%20of%20Approval.pdf](https://www.energizect.com/sites/default/files/Approval%20of%20CLM%202020%20Plan%20Update_Conditions%20of%20Approval.pdf).

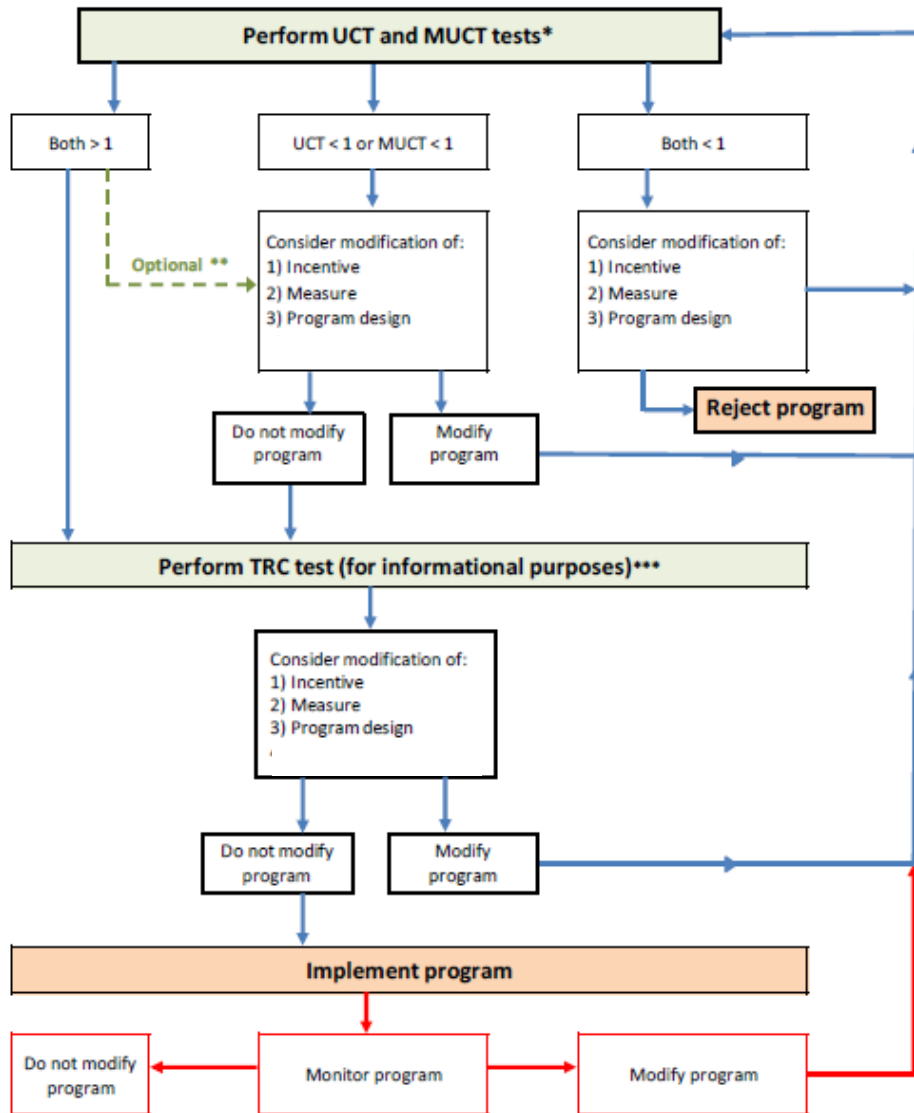
Figure 5-A provides the benefits (numerator) and costs (denominator) that are used within the three B/C tests, as well as their value and source.

**Figure 5-A: Benefit/Cost Testing Summary (including the source of the avoided costs/benefits)**

Benefit Type (numerator)	Units	15 Year-Value Levelized Cost (\$ 2018)	Utility Cost Test (Natural Gas/Electric)	Modified Utility Cost Test	Total Resource Cost Test	Source
<b>Electric Program Benefits</b>						
Energy	\$/kWh	\$0.038	X	X	X	2021 AESC
Capacity	\$/kW	\$48.00	X	X	X	2021 AESC
Transmission	\$/kW	\$0.86	X	X	X	EDCs (Note 1)
Distribution	\$/kW	\$30.89	X	X	X	EDCs (Note 1)
Pooled Transmission Facilities (Note 2)	\$/kW	\$84.00	X	X	X	2021 AESC
Reliability (Note 2)	\$/kW	\$0.50	X	X	X	2021 AESC
Energy DRIPE (Note 3)	\$/kWh	\$0.025	X	X	X	2021 AESC
Capacity DRIPE (Note 4)	\$/kW	\$76.60	X	X	X	2021 AESC
<b>Natural Gas (Note 5)</b>						
Natural Gas (Note 5)	\$/MMBtu	\$6.48	X	X	X	2021 AESC
DRIPE (Note 6)	\$/MMBtu	\$1.17	X	X	X	2021 AESC
<b>Oil</b>						
Oil	\$/MMBtu	\$14.04		X	X	2021 AESC
Oil DRIPE	\$/MMBtu	\$0.11		X	X	2021 AESC
Propane	\$/MMBtu	\$38.79		X	X	2021 AESC
Water	\$/Gallons	\$0.014			X	CT rates (Note 7)
Non-Energy Impacts	\$ (varies)	N/A			X	Various
Non-Embedded Emissions	\$/kWh	\$0.0482			X	2021 AESC
Fossil Emissions (Note 8)	\$/ton	\$125/ton CO <sub>2</sub> \$14,700/ton NO <sub>x</sub>			X	2021 AESC
<b>Cost (denominator)</b>			<b>Natural Gas/Electric Cost (no oil/propane)</b>	<b>Program Cost (including oil, propane)</b>	<b>Total Cost (program + customer)</b>	
<p><b>Note 1:</b> Transmission and Distribution benefits are based on Electric Distribution Companies' (EDC) studies conducted in 2017. The Companies use weighted average values for T (\$0.84/kW) and D (\$30.29/kW) from those studies.</p> <p><b>Note 2:</b> Connecticut counterfactual 1 using a 15-year levelized basis; all values are in 2021 dollars.</p> <p><b>Note 3:</b> Includes all DRIPE identified in 2021 AESC, including own-fuel DRIPE and cross-fuel DRIPE (Connecticut DRIPE and rest-of-pool). CT counterfactual 1, summer on-peak, on a 15-year levelized basis; all values are in 2021 dollars.</p> <p><b>Note 4:</b> Capacity DRIPE includes Connecticut and rest-of-pool components, counterfactual 1, cleared capacity values, on a 15-year levelized basis; in 2021 dollars.</p> <p><b>Note 5:</b> Values are for the Southern New England Region, all retail end-uses, on a 15-year levelized basis; in 2021 dollars.</p> <p><b>Note 6:</b> Includes all DRIPE identified in 2021 AESC including own-fuel DRIPE and cross-fuel DRIPE (Connecticut DRIPE and rest-of-pool). Values based on all retail end-uses and in 2021 dollars.</p> <p><b>Note 7:</b> Water-avoided costs based on 2016 Tighe and Bond water and sewer data for Connecticut. <a href="http://rates.tighebond.com/index.aspx">http://rates.tighebond.com/index.aspx</a>.</p> <p><b>Note 8:</b> CO<sub>2</sub> avoided cost value uses the "New England-based marginal abatement cost, derived from the electric sector."</p>						

In Connecticut, the UCT (or MUCT for electric programs that save fossil fuels) is the primary test. The TRC is used as a secondary test to provide a broader perspective of program performance, including the incorporation of NEIs, particularly for low-income programs. The flow chart below (Figure 5-B) illustrates the use of three B/C tests and the iterations that may be used to refine program performance and optimize the energy efficiency portfolio.

**Figure 5-B: Connecticut B/C Testing Process<sup>118</sup>**



\*Multiple rounds of UCT and MUCT testing may be employed to refine a program.

\*\*Modifications to improve savings and benefits might be considered.

\*\*\*TRC test is not used as pass/fail test. Judgement about whether a program passes muster is based on the UCT and MUCT. For the HES-Income Eligible program, the TRC test is used as the primary B/C metric. The TRC test merely provides an indication of whether participant contribution and program incentives are appropriate without further modification.

<sup>118</sup> The Connecticut B/C flowchart was developed through a collaborative effort between DEEP staff and the Companies.



In addition to the continuation of the three B/C tests, the Companies will maintain the basic framework of the B/C tests to remain consistent with prior DEEP feedback.<sup>119</sup> This includes the following: (1) the use of nominal avoided costs, and (2) a nominal discount rate of 3 percent<sup>120</sup> for all B/C testing. The discount rate is used to calculate the net present value of the avoided costs over the life energy efficiency measures. The nominal avoided costs are calculated using a 2.0 percent inflation factor on the 2021 AESC.

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<sup>119</sup> DEEP Resolution of Conditions, Sep. 26, 2014.

<sup>120</sup> Discount rate is based on DEEP's Approval with Conditions of the 2019-2021 Plan (dated Nov. 11, 2018), filed on Dec. 20, 2018, Compliance Item No. 5. Please see Appendix E of the updated 2019-2021 Plan for more details.

## SECTION SIX: EVALUATIONS

### 6.1 PURPOSE OF EVALUATIONS

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Since the inception of Connecticut's energy efficiency and demand management programs, independent evaluation, measurement, and verification (EM&V) has been an integral component. EM&V helps the EEB, the Companies, policy makers, and stakeholders better understand the success of the programs and if they are meeting the goals and objectives they were created to achieve. EM&V has many objectives, including verifying program energy savings, estimating future energy savings, identifying ways to improve program delivery and results, and helping expand the reach of programs by identifying barriers to participation. In addition, evaluations are used to verify efficiency programs' demand savings for resources participating in ISO-NE's FCM.

A critical aspect of the Companies' commitment to continued improvement is Connecticut's independent third-party evaluation process.<sup>121</sup> Managed by the EEB, this independent evaluation process results in findings and recommendations that assist the Companies in determining the lessons learned and the process modifications needed to improve the delivery of energy efficiency and demand management programs. Evaluations are selected and prioritized based on criteria such as the length of time since the most recent evaluation of a program, the relative contribution of program savings to the portfolio, and the level of spending on the program. Independent evaluators working on behalf of the EEB have conducted more than 100 studies of the evolving suite of energy efficiency programs since 2005.<sup>122</sup> These studies have included: (1) impact evaluations, which measure the savings resulting from efficiency measures and programs and detail the factors driving those savings; (2) process evaluations, which assess program design and implementation to understand and improve program performance; and (3) market studies, which assess how energy efficiency markets function and analyze market participant behaviors.

In addition to evaluations conducted through the EEB, the Companies work collaboratively with other regional and national entities to share and leverage evaluation results from other jurisdictions to make best use of available resources and avoid duplicating studies conducted elsewhere. For instance, due to the centralized implementation of Eversource's demand response programs across the multi-state Eversource service territory, Eversource has joined with counterparts in Massachusetts and New Hampshire on regional evaluations of several demand response programs.<sup>123</sup> This approach allows for higher quality results at a lower cost than would be possible through a study limited to Connecticut participants and evaluation funding, and it builds upon similar cross-state studies Connecticut has joined in recent years.

In addition, the Companies, in collaboration with DEEP, Northeast Energy Efficiency Partnerships (NEEP), and the Lawrence Berkeley National Laboratory, have completed the Advanced M&V pilot that began in 2017 under a US DOE grant. This grant-funded pilot has provided the Companies with experience with advanced data collection and analytical

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<sup>121</sup> See <https://www.energizect.com/connecticut-energy-efficiency-board/energy-efficiency-board-committees/evaluation-committee> for additional information on the EEB evaluation process.

<sup>122</sup> See <https://www.energizect.com/connecticut-energy-efficiency-board/evaluation-reports> for final and draft versions of EEB evaluation reports and studies, along with related documents such as project descriptions, stakeholder comments, and supplementary materials.

<sup>123</sup> See ERS, Cross-State C&I Active Demand Reduction Initiative Summer 2019 Evaluation Report, Apr. 15, 2020, available online at: [http://ma-eeac.org/wordpress/wp-content/uploads/Cross-State-CI-DR-S19-Evaluation-Report\\_04-15-2020\\_clean.pdf](http://ma-eeac.org/wordpress/wp-content/uploads/Cross-State-CI-DR-S19-Evaluation-Report_04-15-2020_clean.pdf) and Navigant, 2019.

tools that can produce timely feedback on savings from energy efficiency projects, supporting project implementation and evaluation efforts.

Results from the residential and C&I portions of the pilot are available at: <https://portal.ct.gov/DEEP/Energy/A-Pilot---Advanced-Measurement-and-Verification-in-Connecticut>.

**Figure 6-A: 2022-2024 Evaluation Performance Management Incentive (Secondary Metrics)**

Incentive Metric	Description	Annual Target Goal
Evaluation	<i>Promote timely turnaround for ongoing evaluations</i>	This metric is designed to ensure timely turnaround on purchase orders and evaluation data requests based on agreed upon timelines for studies

## 6.2 2021 EVALUATION RECOMMENDATIONS

One of the outcomes of the EEB's evaluation process is a set of recommendations for the Companies regarding how to improve the evaluated programs. The Companies will carefully consider and respond to all evaluation recommendations (once finalized). Figure 6-B, on the next page, details the 2021 Evaluation recommendations and how the Companies plan to incorporate these recommendations into the 2022-2024 Plan's program offerings.

**Figure 6-B: 2021 Evaluation Recommendations**

Study	Draft Recommendations (from Evaluators)	Companies' Response
<b>R1973 Retail Non-Lighting</b>	Engage DEEP and other Connecticut stakeholders to develop a market transformation framework for ESRPP. The elements of a market transformation framework would include – agreements on evaluation, mechanism for claiming savings, and cost-effectiveness methodology. Some components, such as baselines and program tracking, will need to be established ahead of time.	Recommendation under consideration.
	Implement the recommended ESRPP market transformation indicators (MTIs) to track Connecticut's market transformation progress. Recommended indicators are Program Qualified Sales Share (PQS), and Program Qualified Model Assortment Share.	Recommendation under consideration.
	Monitor key performance indicators (KPIs) for ESRPP to help identify where the Connecticut ESRPP program is having success in the shorter-term and where it is lagging. Recommended KPI's include total deemed savings, net benefit, number of participating store locations, number of product categories, efforts to recruit retailers, and total incentive dollars paid.	Recommendation under consideration.
	Begin tracking ESRPP upright and chest freezer purchases separately (if Companies are not doing so already) to allow the freezer type specific savings estimates to be applied for upright and chest types.	Recommendation under consideration.

Study	Draft Recommendations (from Evaluators)	Companies' Response
<b>R1973 Retail Non-Lighting (continued)</b>	Participate actively with ESRPP national partners specifications and standards tasks, such as providing data and engaging in comment process for standards.	Recommendation under consideration.
	Work with the national collaborative to recruit regional peer utilities into the ESRPP program.	Recommendation under consideration.
	Provide specific directions to national retailer partners on purchasing and promoting specific products (e.g., marketing strategies and content) and establish relationships with local retailers to ensure national guidance is implemented.	Recommendation under consideration.
	Incorporate a structured assessment of incentive levels for ESRPP.	Recommendation under consideration.
	Institute two-year or more incentive levels and budgets for the Connecticut ESRPP programs instead of current annual process, even if other Program Sponsors are budgeting annually.	Recommendation under consideration.
	Continue to improve the design and user experience of E-commerce platforms. The Companies should continue to use non-utility E-commerce platforms that customers are familiar with as a benchmark for platform design. The Companies should also consider the possibility of offering a single, combined E-commerce platform as a way to streamline the user experience. A single platform could be administered similarly to the Mass Save E-commerce site that serves customers across six different Massachusetts utilities.	Recommendation under consideration.
	Create a dashboard of tracking metrics to gauge monthly E-commerce platform performance. Work with E-commerce platform developers to gather regular insights into customer engagement through tracking monthly unique visitors, product category page views, clickthrough rates, and customer satisfaction. Other metrics to consider are the number of pages customers visit, referral sources (how the customer found the site), and customer net promoter scores.	Recommendation under consideration.
	Continue to add educational information to help customers understand the benefits of buying efficient products. The Companies' E-commerce sites should clearly show users; which products receive incentives, product information such as energy efficiency scores and buyers guide information (e.g., how the Advanced Power Strips have higher power surge protection for your devices) and customer ratings and reviews to give products more credibility.	Recommendation under consideration.
	Leverage direct email for effective E-commerce marketing outreach (if not already doing so).	Recommendation under consideration.
	Continue to offer E-commerce special promotions to drive customer engagement.	Recommendation under consideration.
	Continue to increase the number of product categories available on E-commerce platforms.	Recommendation under consideration.
	Track Wi-Fi and Smart (learning) thermostat purchases separately, as well as Tier I and Tier II purchases separately (if not doing so already) to better understand their impact.	Recommendation under consideration.

Study	Draft Recommendations (from Evaluators)	Companies' Response
<b>R1973 Retail Non-Lighting (continued)</b>	Conduct additional research to identify if E-commerce platforms are leading to additional savings from purchases outside of the platform.	Recommendation under consideration.
<b>X1941 Multifamily Impact Evaluation</b>	Develop a final review process for each project to verify the following: all measure installations are documented, the number of measure installations align with the correct PSD calculations, the correct heating fuel is identified, winter demand is claimed only for electric measures, and the presence of air conditioning is captured correctly.	Recommendation under consideration.
	Correct measure-level program calculators as noted in Section 6, including: correct coincidence factors for demand calculations, ensure that ECM Pump projects follow calculation for that measure, and update the low-flow fixture calculation to align with the 2021 PSD.	Recommendation under consideration.
	Consider “rolling up” the savings for measures listed twice for the same site. As noted above, several projects had the same measure listed twice in the databased, and the second entry often had a zero or low realization rate.	Recommendation under consideration.
	Sunset dwelling unit lighting measures as soon as possible, and sunset common area and exterior lighting in the next few years. Continue to incentivize common area and exterior lighting short term, since this serves retrofits and incumbent technologies (fluorescent indoors, and HID outdoors) which have long measure lives. But as natural market adoption replaces these incumbent technologies with LEDs, phase out this measure. Consider removing the dwelling unit lighting incentive, since LEDs are standard practice and incumbent technologies (incandescent) have short measure lives. If the Companies continue to subsidize these measures, change the baseline wattage to an EISA-compliant lamp, and require photo documentation for a sample (10%) of removed lamps to show they are incandescent/halogen.	Recommendation under consideration.
	<ul style="list-style-type: none"> <li>• Encourage installation of non-lighting measures and discourage reliance on lighting.</li> <li>• Continue to offer the comprehensive bonus and potentially increase it, or provide an additional kicker for non-lighting measures, like HVAC or DHW replacements, duct insulation, or for <math>\geq 15\%</math> savings.</li> <li>• Consider requiring <math>&lt; 50\%</math> savings max from lighting.</li> <li>• Highlight case studies of HVAC or DHW measures at annual meeting and/ or provide annual awards for projects with diverse scopes of work or that installed a less commonly installed measure.</li> <li>• Investigate measures with future savings opportunities. This should include an investigation of electrification measures (e.g., estimates of energy and carbon impacts from moving from fossil-fueled based HVAC and DHW measures to electric sources such as heat pumps) to inform policy discussions that could consider allowing fuel switching in the program.</li> <li>• Ensure that a diversity of in-unit measures are provided for HES-Income Eligible participants, particularly HVAC and envelope measures which can reduce energy bills and provide better comfort, to improve equity and inclusion.</li> </ul>	Recommendation under consideration.

Study	Draft Recommendations (from Evaluators)	Companies' Response
<b>X1931-6 Hours of Use Update and Documentation</b>	<p>The study recommends updating the PSD's C&amp;I default HOU/FLH values table in Table A5-1, Appendix Five with the updated HOU/FLH values table presented in Table 1-1 of the final report.</p>	<p>The Companies will adopt the updated HOU values from Table 1-1 of the final report and add them to the PSD.</p>
	<p>The modeling-based updated HOU/FLH values presented in this study are developed based on the simulation of commercial building prototypes using Hartford (inland) weather data. The study team recommends running the prototypes using Bridgeport (coastal) weather data as well and reporting separate inland and coastal C&amp;I HOU/FLH values. If one set of statewide HOU/FLH values is desired, the values should reflect a weighted average of inland and coastal values.</p>	<p>The current recommendation is to use the HOU/FLH values from Table 1-1 in the final report. The Companies will consider this recommendation in the future.</p>
	<p>The 22 commercial building prototypes that the study team used in the study are based on weather and local building practices adjustments made for Poughkeepsie, NY. The results of those 22 NY commercial building prototypes were assigned to one of the 60 PSD facilities based on operational similarities. The study recommends a review of the key building description assumptions of the NY commercial building prototypes (presented in Appendix A) in the future. The study team also recommends reviewing and updating (as needed) the mapping of NY building prototypes to the PSD facilities presented in Appendix B. For future studies, the study team also recommends developing CT-specific building prototypes for all 60 PSD facilities.</p>	<p>The Companies will keep this in mind for future studies.</p>
<b>X1931-7 Cooling and Heating Degree Days Update</b>	<p>The study team recommends updating the current PSD to include the inland and coastal HDD and CDD values presented in this study. Moving forward, the Companies should revise program tracking systems and savings calculators to reflect the revised inland/coastal values based on project ZIP code. The inland/coastal designation simplifies the degree-day values as much as possible while acknowledging the state's two distinct climatological regions. Should it be difficult to implement separate inland and coastal HDD and CDD values due to program tracking limitations, the study team recommends revising the PSD with utility-specific HDD and CD values.</p>	<p>The Companies will adopt utility-specific degree day values in the PSD.</p>
	<p>The CT PSD uses an adjustment factor (Fadj) of 0.64 in the savings algorithm of the impacted weather-dependent measures to account for the errors inherent to the degree day method. This adjustment factor (Fadj) was estimated based on the empirically derived correlation between degree days (Kelvin) and correction factor presented in the 1989 ASHRAE handbook. The CT PSD adjustment factor needs to be updated based on the new heating degree day values presented in this study. Recommendation is to update the current PSD to include the ASHRAE adjustment factor presented in this study.</p>	<p>The Companies will update the PSD to include the utility-specific ASHRAE adjustment factors.</p>

<b>X1931-3 C&amp;I Air Compressors New Measures for PSD</b>	Add new measures to the PSD: high efficiency compressed air systems (VSD), high efficiency air dryers, efficient air nozzles, and compressed air leak detection.	The Companies plan to add the new air compressor measures to the PSD.
<b>X1931-8 Small Business Advanced Thermostat New Measure for PSD (Phase 1)</b>	Small business advanced thermostat measure developed in Phase 1 of this project to be incorporated in the PSD.	The Companies plan to add the new small business advanced thermostat measure developed in phase 1 of this project to the PSD.
<b>X1931-2 Coincidence Factor &amp; Load Shape</b>	The study team recommends updates to four C&I load shapes and four Residential load shapes. The DNV team also recommends adopting four new residential load shapes.	The Companies will adopt the updated load shapes in the PSD.
	The study team recommends updates of coincidence factors for 48 different types of equipment.	The Companies will adopt the updated coincidence factors in the PSD.
<b>X1931-1 Industry Standard Practice Commercial Boiler and Furnace Study</b>	Adopt the updated table of baseline efficiency recommendations for furnaces and boilers.	The Companies will adopt the updated table of baseline efficiencies for furnaces and boilers and add to the PSD.
<b>X1931-4 Advanced Lighting and Controls New Measure (Commercial)</b>	Adopt new measure energy and demand savings methodology for commercial interior lighting controls.	We will add the new advanced lighting and controls measure to the PSD.

## APPENDIX A: 2022-2024 STATEWIDE MARKETING PLAN

### A.1. INTRODUCTION

Statewide marketing efforts will support the greater plan key themes of equity, energy affordability, and decarbonization by providing a place for all customers to easily access energy efficiency program information and resources. The 2022–2024 Plan years will focus and build on the EnergizeCT.com redesign. A site that provides clear information that is easily located allows us to confidently expand our use of the site and drive additional traffic to non-supplier choice pages. Content creation efforts for both the site and Energize Connecticut social media channels will continue to enhance the visitor’s experience while directing visitors to information on key areas including heat pump education, a clear path to income-eligible solutions, weatherization education, and business solutions for underserved sectors.

The Energize Connecticut social media accounts will continue to reside in the Statewide Marketing Plan. Working with the social media partner onboarded in mid-2021, social media accounts, including the Instagram account added in late 2021, will continue to provide engaging content to increase awareness with topics pertinent to the Energize Connecticut stakeholders. Separately from the Statewide Marketing Plan, the Companies use paid social and boosted posts under their programmatic advertising plans to further promote the EnergizeCT social media audience (and grow this audience).

The estimated yearly costs for the 2022-2024 Marketing Plan are shown in Figures A-1, A-2, and A-3. The CT Green Bank will not provide financial support but will continue to dedicate in-kind resources.

**Table A-1: 2022 Marketing Plan Estimated Yearly Costs**

2022 Marketing Plan Task	Eversource	United Illuminating, CNG, and SCG	Total
Website maintenance, updates, and technical support	\$100,716	\$43,164	\$143,880
Website design and development	\$52,150	\$22,350	\$74,500
Website enhancements and upgrades	\$85,891	\$36,810	\$122,701
Acquia	\$18,200	\$7,800	\$26,000
Website utilities (e.g., JW Player, Ceros, GoDaddy)	\$52,500	\$22,500	\$75,000
Social media (management and content)	\$70,000	\$30,000	\$100,000
Paid search	\$21,000	\$9,000	\$30,000
Content creation & migration	\$70,000	\$30,000	\$100,000
<b>Total</b>	<b>\$470,457</b>	<b>\$201,624</b>	<b>\$672,081</b>



**Table A-2: 2023 Marketing Plan Estimated Yearly Costs**

2023 Marketing Plan Task	Eversource	United Illuminating, CNG, and SCG	Total
Website maintenance, updates, and technical support	\$100,716	\$43,164	\$143,880
Website enhancements and upgrades	\$138,041	\$59,160	\$197,201
Acquia	\$18,200	\$7,800	\$26,000
Website utilities (e.g., JW Player, Ceros, GoDaddy)	\$52,500	\$22,500	\$75,000
Social media (management and content)	\$70,000	\$30,000	\$100,000
Paid search	\$21,000	\$9,000	\$30,000
Content creation	\$70,000	\$30,000	\$100,000
<b>Total</b>	<b>\$470,457</b>	<b>\$201,624</b>	<b>\$672,081</b>

**Table A-3: 2024 Marketing Plan Estimated Yearly Costs**

2024 Marketing Plan Task	Eversource	United Illuminating, CNG, and SCG	Total
Website maintenance, updates, and technical support	\$118,944	\$50,976	\$169,920
Website enhancements and upgrades	\$119,813	\$51,348	\$171,161
Acquia	\$18,200	\$7,800	\$26,000
Website utilities (e.g., JW Player, Ceros, GoDaddy)	\$52,500	\$22,500	\$75,000
Social media (management and content)	\$70,000	\$30,000	\$100,000
Paid search	\$21,000	\$9,000	\$30,000
Content creation	\$70,000	\$30,000	\$100,000
<b>Total</b>	<b>\$470,457</b>	<b>\$201,624</b>	<b>\$672,081</b>

## A.2 METRICS AND GOALS

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Website traffic is tracked via Google Analytics. Since 2018, the Companies' programmatic marketing drives customers to sign-up pages and the 877-WISE-USE energy efficiency hotline to provide the quickest path to program participation. Therefore, it is difficult to draw trending conclusions from the website's traffic (as advertising has been the primary driver of website visits historically). Paid search and paid social will allow greater measurement of traffic to the site. Program marketing continues includes secondary messaging to the site for additional information.

Social media metrics serve as a way to direct our efforts. The social media account analysis done in mid-2021 as the new social media partner came on board serves as a benchmark and goals are derived from that analysis.

### A.2.1 Three-Year Strategy (2022-2024)

The 2022-2024 term will focus on completing the upgrade to the website and building upon those upgrades. This includes a) increasing traffic to the site and b) providing new and engaging content to bring visitors back. Site maintenance, security and performance are ongoing in order to keep the site functioning properly. See Website Activities below for more.

Paid search will be used as a “pull” tactic to direct customers already looking for energy efficiency-related topics to the site. This targets people within Connecticut using broad awareness terms and phrases around energy efficiency and more specific terms around the Energize Connecticut brand. Close attention will be given to ensure paid search campaigns complement any paid search campaigns associated with program marketing by the Companies.

Social media platforms will engage followers with the brand with interesting, relevant posts and topics. Many of these posts will direct customers to EnergizeCT.com to learn more about a given topic. Although current social media accounts, namely Facebook, have a respectable number of followers, we look to reengage current subscribers as well as increase the overall number of followers. Content is a key component of social media and will continue to focus on topics important to stakeholders: including energy efficiency, energy-saving tips, renewable energy, financing opportunities, and supplier of choice with additional focus on content aligning with the key themes of the plan.

The new site will be engaging and user-friendly but maintaining that requires regular content updates and additions. While updating current content take precedence, creating new content that is featured, either on the site or via social media, is necessary to maintain interest of past visitors and encourage new visitors. As such, the strategy includes new content creation that complements the layout and user experience of the new site. Content will support the key themes of the plan including, but not limited to: heat pump education, a clear path to income-eligible solutions, weatherization education, and business solutions for underserved sectors.

#### Planned Website Activities

- i. **Site maintenance.** Ongoing website maintenance and readiness is required to ensure that EnergizeCT.com—a well-visited, best-in-class energy efficiency and renewable energy website—is available 24-hours a day, seven days a week, and is as a trusted resource for all Connecticut consumers and businesses.
- ii. **Site security and performance.** Routine monitoring for security issues focused on the platform, server, and content will guard against threats and enable issues to be resolved quickly.
- iii. **Enhance engagement.** New key engagement features including a homepage animated key statistics section (e.g., energy saved, homes weatherized) along with the EEB’s annual Legislative Report highlights, and an improved image gallery feature (e.g., Zero Energy Challenge, E-Houses).
- iv. **Site intercept surveys.** The continued use of website intercept surveys will assist the Website Strategy in understanding user behavior unique to the EnergizeCT.com site, to inform enhancements, and to support increased consumer engagement.
- v. **Website enhancements.** Focus on improving customer journey with enhancements such as Accessibility Testing, SEO program, and Analytics program. Site enhancements to support additional regulatory requirements for rate board, electric vehicles, battery storage, and clean energy facilities.

## APPENDIX B: PUBLIC INPUT SESSION

### B.1 PUBLIC INPUT COMMENTS



2022-2024 C&LM Plan – Public Input Comments

August 23, 2021

Note: All submitted written comments, and a list of stakeholders who provided written or verbal comments, may be access at Box.com: <https://app.box.com/s/rl91prtnu6l1n81mcwkaolx76uapgd0n>

1) Samantha Dynowski

**Representing:** Sierra Club of Connecticut

**Date Input Received:** August 11, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

*The Sierra Club indicated that we need to be undertaking an all-out effort to decarbonize our economy to avoid the worst future impacts of the climate crisis. Energy efficiency is a key component of this effort, and the CLM plan is one of the best tools that Connecticut has to advance climate policy while achieving its core function of increasing energy efficiency.*

*The Sierra Club believes the draft C&LM Plan does not take the urgent action necessary to meet the climate crisis head on, it does not adequately support the state’s decarbonization goals or its strategic electrification goals, and it does not do enough to address equity. That’s why Sierra Club Connecticut urges the EEB to:*

- *Stops subsidizing new fossil fuel appliances and heating systems now.*
- *Invest only in zero-emission electric appliances and zero-emission heat pump space and hot water heating.*
- *Include achievable numeric goals to reach underserved and energy burdened households, resources to support those goals, and accountability measures for ensuring they are met.*

**Companies’ Response:**

- **Decarbonization.** Please note the Companies have included additional Plan text regarding this topic since these comments were made. One of the three key priorities for the 2022-2024 term is decarbonization. The 2022-2024 Plan does support several zero greenhouse gas emissions strategies, including an all-electric package for both the Residential New Construction and Energy Conscious Blueprint (C&I) programs and the introduction of induction cooktops to the ESRPP (ENERGY STAR Retail Products Platform). See Section 2.2. In addition to these electrification strategies, the 2022-2024 Plan details how the Companies will expand their weatherization efforts for residential and commercial buildings, as well as work with DEEP and other stakeholders to address weatherization health and safety barriers.

- Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

- Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- Quantifiable data.** The Final Plan text includes EEB and EEB consultant-approved high-level summary budgets, savings, greenhouse gas emissions reductions, and customers savings in the Executive Summary and Section One of the Plan. In addition, the final Plan includes numerical goals for achieving energy reductions for individual Residential and C&I Portfolio programs. Each Residential and C&I Portfolio program section includes a high-level summary of the offering's planned three-year budgets, energy savings, greenhouse gas emissions reductions, and customer savings. The Companies have brought this data forward from *Appendix E: Budgets & Savings Tables* in response to public input comments (such as this one) so that the information included in the program sections in a high-level summary format. The Companies have included detailed historical and planned 2022-2024 data in the form of tables, pie charts, and graphs (see *Appendix E: Budgets & Savings Tables*).

#### **Board Response:**

- State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics at least monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.
- **Reaching underserved and burdened customers.** Equitably serving those customers (both residential and C&I) who have not historically been adequately served and/or have high energy burdens has become a priority focus. With new performance management incentive (PMI) metrics that prioritize hardship and burdened customers and businesses, along with DEEP's new DEI Consultant whose primary focus will be the C&LM programs, equity issues are a top priority in the 2022-2024 Plan.

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2) Matt Rusteika

**Representing:** Acadia Center

**Date Input Received:** August 11, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

*Please note: Mr. Rusteika's written materials are in PowerPoint format and are located in the Box.com folder.*

*Mr. Rusteika stated that it's important the EEB and Energize Connecticut programs are structured to drive the emissions reductions that the State intends to achieve. Electrification, he shared, of space heating significantly reduces emissions and those reductions increase year after year as more renewables are added to the power grid.*

- 1) *Incentivizing, and supporting supply chain, for heat pump equipment should figure prominently in the next Plan.*
- 2) *Controls that help optimize heat pump equipment integration should be incentivized.*
- 3) *Training around heat pumps, heat pump applications, and heat pump integration is key to ensure uptake of heat pump measures.*

**Companies' Response:**

- **Decarbonization/heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies are piloting a fuel optimization pilot which utilizes heat pump technology and integrated controls to displace fuel oil and propane consumption. The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.

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**3) Shannon Laun****Representing:** Conservation Law Foundation**Date Input Received:** August 11, 2021**Input Method(s):** Written and verbal comments**Requests/Comments:**

*Conservation Law Foundation's comments focus on improving public participation, increasing accountability by adding quantifiable objectives and metrics, and aligning the C&LM Plan with Connecticut's climate policies, most notably by tracking and reporting on emissions reductions, eliminating incentives for gas heating and appliances, and expanding heat pump incentives.*

- *Remove unnecessary barriers to public participation to increase the public's ability to meaningfully comment on the draft C&LM Plan, specifically:*
  - *Improve website navigation and visibility of Plan development steps*
  - *Provide clear information on Plan development schedule and engagement opportunities*
  - *Include relevant data in the draft Plan, and give stakeholders time to review it*
- *Include quantifiable objectives and metrics, as well as strategy and timeline for tracking and reporting, in the draft C&LM Plan to increase accountability and ensure that progress is accurately tracked, specifically:*

- *Connect EM&V evaluation reports with specific programs and objectives to make an assessment of performance clear*
- Provide a status of each program, as it relates to objectives, in the draft and subsequent updates
- **Modify the Plan to Align with State Climate Policy, specifically:**
  - Accelerate adoption of building thermal energy conservation improvements through protection of energy efficiency funds;
  - Transition building fossil fuel thermal loads to efficient renewable thermal technologies
  - Develop sustainable funding mechanisms to incentivize replacement of fossil fuel space and water heating with efficient renewable thermal technologies
  - Incentivize installation of renewable thermal technologies in new construction
  - Require tracking and reporting for emissions metrics
  - Eliminate incentives for gas heating and appliances
  - Implement gas demand reduction programs
  - Expand incentives for heat pumps

### **Companies' Response:**

- **Public participation.** The EEB held three Public Input Sessions where contractors, municipal officials, regulators, and other stakeholders were able to voice their suggestions for modifications, improvements, new initiatives, and qualifying energy-efficient technologies in preparation for the Plan. The EEB and the Companies also solicit feedback through annual Public Input Sessions, as well as invite public comments at the EEB's monthly committee and board meetings, which also inform the development of the Plan and Plan updates. In response to public input comments (such as this one), the Companies have updated the EnergizeCT.com website to reposition three-year plan documents (e.g., draft Plan text, budgets and goals spreadsheets) to more prominent parts of the EEB's section of the website. In addition, the Companies' strategic marketing plan for the 2022-2024 term includes a plan to update the EnergizeCT.com website in 2022 (see Appendix A).

The EEB and Companies released the Plan timetable in February 2021 and included timing of public input sessions and Plan deliverables. The EEB and Companies gave updates regarding the timetable at all 2021 EEB meetings. The Companies have posted multiple iterations of the Plan and Budget & Savings Tables on the EnergizeCT.com/EEB meeting materials webpage for review. The early draft Plans never include budgets or savings data until the EEB, EEB consultants, and Companies have reviewed budget and savings models, evaluation findings, technical studies, and Program Savings Document manual updates. Please see Section 5 of this Plan and the 2022 Program Savings Document for in-depth discussions regarding the tests, calculation formulas, and data used to calculate the information detailed in Appendix E's budget and savings tables. Once approved by the EEB, the Companies integrate the approved numbers into the Plan text. DEEP will hold a public input session after the Companies file the Plan (November 1) before issuing its draft and final determinations.

- **Quantifiable Data.** The Final Plan text includes EEB and EEB consultant-approved high-level summary budgets, savings, greenhouse gas emissions reductions, and customers savings in the Executive Summary and Section One of the Plan. In addition, the final Plan includes numerical goals for achieving energy reductions for individual Residential and C&I Portfolio programs. Each Residential and C&I Portfolio program section includes a high-level summary of the offering's planned three-year budgets, energy savings, greenhouse gas emissions reductions, and customer savings. The Companies have brought this data forward from *Appendix E: Budgets & Savings Tables* in response to public input comments (such as this one) so that the information included in the program sections in a high-level summary format. The Companies have included detailed historical and planned 2022-2024 data in the form of tables, pie charts, and graphs (see *Appendix E: Budgets & Savings Tables*).

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study’s findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB’s monthly Residential committee meeting and in DEEP-issued compliance filings to DEEP.
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving electrification of the grid. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study’s findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB’s monthly Residential committee meeting and in the Companies’ compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies’ heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an “All Things Heat Pumps” webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

- **Future modifications.** The Plan will be modified in future annual Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule) in accordance with DEEP’s 2021 Comprehensive Energy Strategy which is anticipated to be released later in 2021.

#### **Board Response:**

- **Plan development process and public participation.** As noted in the Companies’ responses, there have been multiple opportunities for public participation and feedback during the development of the 2022-2024 Three-year Plan. That said, the Board recognizes that communications regarding the Plan development process and timeline can be improved so that stakeholders better understand how the process unfolds and to enhance access to Plan materials on the Energize CT website. Work has already started on improving access to Plan materials on EnergizeCT.com. The Board



will fully consider all of the comments received on Plan development and public participation when it begins its 2023 Plan Update process in mid-2022.

- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics at least monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

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#### 4) Alicia Dolce

**Representing:** Celebration Green Design and Build

**Date Input Received:** August 11, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

Based on the latest IPCC report, the critical timeline has been escalated so we need the boldest actions possible to scale-up the transformation of our existing building stock and new construction.

**RE: Metrics, goals, and data**

- Provide a roadmap for how goals will be met and progress tracked, especially as it pertains to state mandates, as well as milestones for the Plan.
- Provide data and metrics that will enable stakeholders to participate in the review process and build in accountability.

**RE: Plan development timeline**

- Allow more time for continued review and public comment for the draft Plan, especially during the height of the summer holiday season when many are aware on vacation.

**RE: Decarbonization**

- In order to meet our decarbonization goals, we must ramp-up both promotion and funding for heat pumps.

- Provide more information about the heat pump pilot, and specify benchmarks for ASHP adoption to answer the key question: How many heat pumps installations are we striving to do each year?

**RE: Workforce Development & Training**

- Include specific targets for expanding CT's workforce in this plan: How many sub-contractors and by when?

**Companies' Response:**

- **Quantifiable data.** The Final Plan text includes EEB and EEB consultant-approved high-level summary budgets, savings, greenhouse gas emissions reductions, and customers savings in the Executive Summary and Section One of the Plan. In addition, the final Plan includes numerical goals for achieving energy reductions for individual Residential and C&I Portfolio programs. Each Residential and C&I Portfolio program section includes a high-level summary of the offering's planned three-year budgets, energy savings, greenhouse gas emissions reductions, and customer savings. The Companies have brought this data forward from *Appendix E: Budgets & Savings Tables* in response to public input comments (such as this one) so that the information is embedded in the program sections in a high-level summary format. Detailed historical and planned 2022-2024 data in the form of tables, pie charts, and graphs can always be found in *Appendix E: Budgets & Savings Tables* of the Plan.
- **Updates regarding metrics and goals.** Goals are tracked on a monthly basis against the goals noted in the Plan Tables, including, but not limited to units, savings (energy and demand), and greenhouse gas reductions. These metrics are updated on the [ctenergydashboard.com](http://ctenergydashboard.com) website and in EEB meetings.
- **Public participation.** The EEB held three Public Input Sessions where contractors, municipal officials, regulators, and other stakeholders were able to voice their suggestions for modifications, improvements, new initiatives, and qualifying energy-efficient technologies in preparation for the Plan. The EEB and the Companies also solicit feedback through annual Public Input Sessions, as well as invite public comments at the EEB's monthly committee and board meetings, which also inform the development of the Plan and Plan updates. In response to public input comments (such as this one), the Companies have updated the [EnergizeCT.com](http://EnergizeCT.com) website to reposition three-year plan documents (e.g., draft Plan text, budgets and goals spreadsheets) to more prominent parts of the EEB's section of the website. In addition, the Companies' strategic marketing plan for the 2022-2024 term includes a plan to update the [EnergizeCT.com](http://EnergizeCT.com) website in 2022 (see Appendix A).

The Plan timetable was released in February 2021 and included timing of public input sessions and Plan deliverables. The timetable was re-published at all 2021 EEB meetings. Multiple iterations of the Plan and Budget & Savings Tables have been posted and reviewed. The early draft Plans never include budgets or savings data until the EEB, EEB consultants, and Companies have reviewed budget and savings models, evaluation findings, technical studies, and Program Savings Document manual updates. Please see Section 5 of this Plan and the 2022 Program Savings Document for in-depth discussions regarding the tests, calculation formulas, and data used to calculate the information detailed in Appendix E's budget and savings tables. Once approved by the EEB, these are integrated into the Plan text. DEEP will hold a public input session after the Plan is filed (November 1) before issuing its draft and final determinations.

- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to

track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

- **Workforce development.** The latest Plan text expanded the description of the Companies' Workforce initiatives. The Companies will work with EEB Consultants to develop appropriate metrics.

**Board Response:**

- **Plan development process and public participation.** As noted in the Companies' responses, there have been multiple opportunities for public participation and feedback during the development of the 2022-2024 Three-year Plan. That said, the Board recognizes that communications regarding the Plan development process and timeline can be improved so that stakeholders better understand how the process unfolds and to enhance access to Plan materials on the Energize CT website. Work has already started on improving access to Plan materials on EnergizeCT.com. The Board will fully consider all of the comments received on Plan development and public participation when it begins its 2023 Plan Update process in mid-2022.
- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics at least monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.

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**5) Anne Hulick****Representing:** Clean Water Action/Clean Water Fund**Date Input Received:** August 11, 2021**Input Method(s):** Verbal comments**Requests/Comments:**

*CWA/CWF says that reducing energy demand is critical to meet our state’s climate goals but also provides significant benefits to residents that have a high energy burden due to leaky homes, inefficient appliances and weatherization barriers that harm health. Connecticut has robust greenhouse gas reduction goals and a statutory mandate to reduce energy demand by expanding energy efficiency solutions in buildings, but we are far from meeting that goal. To bridge this gap, the Plan should:*

1. *Develop a clear, transparent roadmap, with annual interim goals, on achieving 80% weatherization of residences by 2030, prioritizing equity and reporting on performances made in this regard.*
2. *Set a date certain (by 2030 at the latest) by which all fossil fuel use will no longer be subsidized or allowed in new construction.*
3. *Align the state’s carbon and greenhouse gas reduction targets with the C&LM plan and set new goals for carbon reductions that are in line with the recent IPCC report—100% carbon neutrality by 2050 if not sooner.*

**Companies’ Response:**

- **Weatherization.** The Companies have increased budgets in the 2022-2024 term toward their weatherization programs to continually increase the number of homes being weatherized in an attempt to help the State achieve its goal of weatherizing 80 percent of residences by 2030. The Companies are working with DEEP to report on the statistics. The Companies have been actively working to participate in efforts to address weatherization health and safety barriers in homes and have participated in discussions with DEEP and the EEB to secure additional funding to remediate these weatherization barriers (see Section 2.5.1). In addition, the Companies will continue their long-term partnership with the Community Action Agencies to assist in cost sharing energy efficiency measures for federal Weatherization Assistance Partnership (WAP) projects including direct-install measures, ductless heat pumps, water heating equipment, administrative fees, heating system replacements, insulation, and windows.
- **Incentives and residential new construction.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment. In the Residential New Construction program, the Companies have significantly reduced the incentives for customers that plan to heat with propane.
- **Future modifications.** The Plan will be modified in future annual Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule) in accordance with DEEP’s 2021 Comprehensive Energy Strategy which is anticipated to be released later in 2021.

**Board Response:**

- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to help

increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut’s goal of weatherizing 80% of residences by 2030.

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies’ ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

#### 6) Peter Millman

**Representing:** Eastern Connecticut Green Action

**Date Input Received:** August 11, 2021

**Input Method(s):** Written and verbal comments

#### Requests/Comments:

*The three priorities of the Plan, equity, decarbonization, and affordability, as well as other aspects of the Plan are laudable. But the Pan could also do more to set out a new course consistent with the very real climate challenges we face in Connecticut.*

- *We should be curtailing, not encouraging, the burning of oil, natural gas, and propane. The EEB should be incentivizing ONLY zero-emission appliances, as well as clean heating and hot water systems.*
- *The Plan should also focus more resources on LMI (low to moderate income) ratepayers; specifically, the EEB should provide LMI customers with more than their proportional share of incentives.*
- *Address the issue of split incentives in multifamily sector with innovative solutions and pilot programs.*

#### Companies’ Response:

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce

development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

- **Proportionality of program budgets.** The Electric and Natural Gas budgets are both over-indexed (i.e., more program dollars allocated vs. customer contributions to the fund budget) to serve low-and-moderate income customers.
- **Split incentives.** The current Plan and Multifamily Initiative's incentive structure address the split incentive issue (i.e., landlord/tenant) for weatherization measures in multifamily buildings (5+ or more units).

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Split incentives.** The current programs and Plan address landlord-tenant split-incentive issues in multifamily buildings. With the current focus on equity, ensuring program services to LMI renters remains a focus and priority for the EEB.

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7) Kai Starn

**Representing:** Steven Winter Associates

**Date Input Received:** August 11, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

*Steven Winter Associates (SWA) is a Connecticut-based firm specializing in building operations, decarbonization, and efficiency for all buildings types. Mr. Stern addressed contractor backlog due to workforce shortages. SWA has seen many savvy contractors solving the problem by raising prices. Even pre-COVID, SWA observed installed heat pump prices rise faster than inflation which was only exacerbated by supply shortages during the pandemic. Mr. Stern shared, anecdotally, that price increases are slowing energy efficiency implementation.*

*Mr. Stern asked Companies to recognize the rising cost of heat pumps and adjust incentives to meet actual market conditions, as well as climate imperatives.*

**Companies' Response:**

- **Heat pump incentives.** The Companies increased the incentives for heat pumps in May 2020. The Companies have seen an increase in heat pump activity commensurate with the incentive increase. The Companies have aligned Connecticut's incentives and heat pump qualification criteria with other states in the New England region.

**Board Response:**

- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.
- **Heat pump incentives.** In alignment with incentives in other states, heat pump incentives were increased in 2020 to spur interest and demand. The EEB will be watching closely to see whether and how much of an impact this has on market uptake and will consider adjustments accordingly.

8) Daniel Robertson

**Representing:** Artis Energy Solutions

**Date Input Received:** August 11, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

*Artis Energy Solutions (Artis) appreciates all the work and the public comment on the CL&M plan and particularly supports the addition of an Equity consultant. Artis said that global warming poses a risk to the planet and health, and aggressive action via a phased approach with the Plan is needed to drive better results and ultimately combat global warming.*

***RE: Decarbonization***

- *Engage a HVAC MEP consultant with design experience and an understanding of energy efficiency and market mechanisms*
- *Encourage heat pump conversion in non-residential sector, retrofits for both res and non-res, and new construction*
  - *Provide incentives for soft costs like HVAC evaluation and design of systems to increase heat pump participation.*
  - *Provide higher incentives to mitigate uptake barriers due to higher capital costs, while keeping incentives (for now) for higher efficiency fossil fuel solutions*
  - *For residential, incentives need to ensure the upfront capital outlay is close to traditional and perhaps provide a three-month return guarantee to build a strong installed base of heat pumps.*
- *Support strategic electrification that weighs impacts of higher electric demand and overall real impact*

***RE: Equity and Energy Affordability***

- *Provide higher incentives for EJC communities*
- *Commission a qualified and experienced Equity consultant to oversee and help develop this Plan, look to continually improve it, and gain buy-in from constituents.*

**Companies' Response:**

- The Companies generally agree with the comments provided.
- **Diversity, equity, and inclusion (DEI) consultant.** On July 21, 2021, DEEP issued its Final Phase I Actions and Recommendations as part of its Equity in Energy Efficiency (E3) proceeding (see Section 1.3.2). The final determination contains eight high-level goals and nineteen associated action items. Action item 1.1. directs the EEB to develop a plan to hire a DEI consultant. Throughout the 2022-2024 term, the Companies will work with the DEI consultant's recommendations to design new pathways and make process improvements to align program delivery with the E3 proceeding's goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024).
- **Heat pump incentives.** The Companies have also filed a heat pumps soft cost study. The Companies increased the incentives for heat pumps in May 2020. The Companies have seen an increase in heat pump activity commensurate with the incentive increase. The Companies have aligned Connecticut's incentives and heat pump qualification criteria with other states in the New England region. The Companies believe it makes sense to provide higher incentives for integrated controls. Heat pumps and other energy efficiency incentives are based on the present value (PV) of the benefits from the Avoided Energy Supply Cost (AESC) study completed in 2021; therefore, the Companies cannot include items such as providing a three-month return guarantee. See Section 5 for more details.
- **Environmental justice communities.** In the upcoming term, the Companies will introduce the Census Tract Tool to streamline customer outreach for contractors. For select census tracts, such as distressed or environmental justice communities, residents will be eligible to receive free weatherization services through the HES-Income Eligible program.

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.

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9) Shirley McCarthy

**Representing:** Self

**Date Input Received:** August 19, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*It is scary and bewildering that EnergizeCT will still offer rebates for natural gas, oil and propane fueled equipment in 2022-2024. Was not the catastrophic forecast in the recent IPCC taken seriously? Are we still in denial and want to protect fossil fuels and the utilities slow progress in shifting to renewables and educating the public about renewables?*



*The U.N. Secretary General called a “code red for humanity.” The planet’s already rapidly decreasing wildlife are burning up in wildfires or dying from drought, etc. Subsidies should be solely directed at clean energy. We must act swiftly. Please do the right thing and discourage the purchase of fossil fuel using equipment.*

**Companies’ Response:**

- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study’s findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB’s monthly Residential committee meeting and in the Companies’ compliance filings to DEEP.
- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies’ ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.

**10) Paul Aresta**

**Representing:** The Council on Environmental Quality

**Date Input Received:** August 13, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*The Council on Environmental Quality (“the Council”) supports measures to conserve energy and improve energy efficiency. Addressing the issue of spill prevention at the same time as improving energy efficiency is a step towards eliminating silos in State programs. The following changes could be made to the CT Heating Loan Program:*

- *Require an inspection of the oil storage tank and associated supply lines whenever an oil-fired furnace or boiler repair or replacement is being considered for a loan under the program.*
- *Include oil storage tank replacements in eligible projects for financing.*
- *Include the financing of upgrades for fuel storage vessels and delivery systems that are in poor condition and pose a risk of an uncontrolled release.*

**Companies' Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Removal and/or replacement of oil storage tanks.** Currently, a portion of the removal and/or replacement of oil storage tanks can be included in some of the financing programs offered to residential customers, such as the Smart E-Loan and EnergizeCT Heating Loan.

**Board Response:**

- See Companies' responses above.

11) Ashita Gona

**Representing:** RMI

**Date Input Received:** August 18, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

*Given the scale of the CT C&LM Plan (\$750 million) and the importance of the goals the CLM plan sets out to achieve, RMI offers this feedback in order to help the Energy Efficiency Board (EEB) create the best plan possible. We urge the Energy Efficiency Board to ask the utilities to re-work the CLM plan with the following changes to address these concerns:*

- *Streamline CLM's programs and incentives to strongly promote all-electric new construction*
  - *Eliminate or significantly reduce gas equipment rebates, including upstream incentives noted in the CLM for the purchase of energy-efficient boilers and furnaces;*
  - *Modify the Energize CT Heating Loan Program, to offer zero or low-interest financing for efficient electric heating systems, not including fossil fuel boilers and furnaces.*
- *Move or significantly reduce fossil fuel incentives for new fossil fuel appliances; we recommend the DER Program include the following:*
  - *Meet Passive House certification standards OR not exceed a site Energy Use Intensity (EUI) of 30 kBtu/ft<sup>2</sup>/year and an air tightness of 2.0 ACH50;*
  - *Utilize heat pump-based technology for space heating and cooling;*
  - *Utilize energy or heat recovery ventilation technology;*
  - *Fully electrify domestic hot water systems;*
  - *Include serious consideration of material decisions related to embodied carbon.*
- *Invest more heavily in weatherization, electrification, and comprehensive retrofit programs.*

**Companies' Response:**

- **Incentives and residential new construction.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment. In the Residential New Construction program, the

Companies have significantly reduced the incentives for customers that plan to heat with propane. Incentive mechanisms are designed to reward builders and customers to construct more efficient buildings (i.e., all-electric package, net zero package, and bonus incentives for Passive House and LEED certifications).

- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.
- **Modification of EnergizeCT Heating Loan program.** The Companies are legislatively-mandated to offer zero or low-interest financing for HVAC systems. See *Public Act 05-01—An Act Concerning Electricity and Energy Efficiency* was passed by the Connecticut General Assembly and *Public Act 18-50—An Act Concerning Connecticut's Energy Future*. Public Act 18-50, § 9(d)(1). "...provided a customer of an electric distribution company may not be denied such services based on the fuel such customer uses to heat such customer's home."

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

**12) Gioia Connell****Representing:** CT Green Building Council**Date Input Received:** August 18, 2021**Input Method(s):** Verbal comments**Requests/Comments:**

*As sustainability specialists at the forefront of implementing many of the utilities' programs, we have direct comments in regard to three elements of the C&LM plan that we see as critical to its successful implementation. This includes—*

- 1) *Commercial energy efficiency support for medium sized businesses,*
  - a. *Expand the technical and financial support for commercial buildings of less than 20,000 SF.*
  - b. *Work with contractors, or consultants, to streamline a workflow and publish common zero-energy pathways leveraging existing incentives and programs on the EnergizeCT website.*
- 2) *Clarifying definitions—specifically decarbonization and equity*
  - a. *Explicitly define terms and include glossary*
  - b. *Incorporate metrics for equity based in the Governor's Council on Climate Change Equity and Environmental Justice Subcommittee work*
- 3) *Leverage best practices and resources for workforce development to conduct this work in a way that is effective for renters, homeowners, and workers, particularly in frontline communities, specifically:*
  - a. *Analyze how much more workforce is needed and in what areas to meet the goals of the C&LM plan.*
  - b. *Identify barriers to diverse workforce development, including the need for wraparound services like transportation, childcare, healthcare, paid training, and apprenticeship contracts.*
  - c. *Create concrete goals for how much the workforce will expand as a result of the C&LM plan, and specific metrics with regards to recruitment for low income and diverse populations.*
  - d. *Design workforce programs from these inputs.*
  - e. *Develop follow-up and report metrics for how much and what type of training occurred, how many trainees were placed into jobs, and how many of these were from minority communities. Tie this in with metrics for health, economy, and wellbeing for households.*

**Companies' Response:**

- **Glossary.** The Plan text includes a glossary.
- **Equity for Energy Efficiency proceeding.** On July 21, 2021, DEEP issued its Final Phase I Actions and Recommendations as part of its E3 proceeding (see Section 1.3.2). The final determination contains eight high-level goals and nineteen associated action items. Throughout the 2022-2024 term, the Companies will design new pathways and make process improvements to align program delivery with the E3 proceeding's goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024).
- **Support for medium-sized and small businesses.** Continuing into the 2022-2024 term, Eversource has a C&I offering for mid-size businesses that consume between >1,000,000 kWh and 5,000,000 kWh annually. The program will use a preferred vendor structure, incentives, and solutions similar to the Energy Opportunities program. This mid-size business initiative bridges the current gap for providing customized solutions and services to businesses that fall between the small business offering and the consultant management of larger energy consumers. These businesses typically are not managed by a utility account manager (similar to most small-sized C&I customers). Currently, there are 2,600 Eversource C&I customers who are eligible to participate.

As part of the Microbusiness Initiative, the Companies will target businesses that use less than 25 kW average monthly demand (United Illuminating) or consume less than 100,000 kWh annually (Eversource) across all facilities and are underserved as their percentage of savings relative to usage as the C&I group. The Companies will target this segment of the market with potentially enhanced incentives especially when a customer installs non-lighting or comprehensive measures.

- **Workforce development.** The latest Plan text includes more details regarding the Companies' Workforce Development Strategy and efforts. The Companies will work with EEB Consultants to develop appropriate metrics that will be tracked and reported to the EEB. The Companies will review the commentor's suggestions for metrics and work with the EEB consultants to determine what suggestions should be integrated into the Plan in future Plan updates.

#### **Board Response:**

- See above for Companies' response to support for medium-sized businesses and glossary.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.

**13) Bernard Pelletier**

**Representing:** People's Action for Clean Energy

**Date Input Received:** August 18, 2021

**Input Method(s):** Written and verbal comments

#### **Requests/Comments:**

##### **General Comments:**

*Mr. Pelletier provided multiple general and specific requests of the Plan.*

##### **General:**

- *Timing of the CLM should be aligned to the upcoming CES*
- *Tracking adoption metrics should be included for every goal:*
  - *Weatherization*
  - *Adoption of Heat Pumps and Renewable Thermal Technology*
  - *Tracking aggregate energy consumed*
  - *Compliance with state greenhouse gas policy*
- *The plan should make an effort to include municipal utility data*

##### **Specific:**

- *Expand the legislative and policy narrative to show how this CLM plan implements state policy*
- *Make an effort in 2022 to recoup funds lost in 2018 and 2019 to the General Fund*

- *Residential decarbonization:*
  - *Stop incentivizing all non- electric equipment*
  - *Connect incentives for HVAC to policy and performance goals (as NYSEDA does)*
  - *Track the deployment of RTT equipment*
- *Develop a trackable weatherization program that implements the state's 80% goal, defines progress in a measurable way, and prepares Connecticut homes for electrification*
- *Focus on the developing issue of winter peak demand*

#### Companies' Response:

- **Future modifications.** The Plan will be modified in future annual Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule) in accordance with DEEP's 2021 Comprehensive Energy Strategy which is anticipated to be released later in 2021.
- **Heat pump tracking and reporting.** The Companies presently provide quarterly residential HVAC reports to the EEB that track the number of heat pump units receiving incentives (each quarter), which is indicative of the adoption rates. The savings are addressed in the 2022 Program Saving Document manual and are derived by third-party program evaluators.
- **Legislative and policy narrative.** The Plan already includes a detailed narrative of the history and policies affected by energy efficiency legislation passed by the Connecticut General Assembly (see Section 1.1). Once the 2021 Comprehensive Energy Strategy has been released, the Companies will include a detailed plan to address the goals and action items promulgated within the Plan updates to the 2022-2024 term (filed in November 2022 and November 2023) and in budget reconciliation filings (March 1, 2022, March 1, 2023, and March 1, 2024). Please see *Appendix C: Compliance Orders* which gives a detailed overview of DEEP compliance orders to previous Plans and Plan Updates. The 2022-2024 Plan is compliant with all legislative mandates, filed DEEP regulatory decisions, and EEB directives.
- **Diverted energy efficiency funds.** As noted in the Plan's review of energy efficiency legislation (see Section 1.1), *Public Act 18-50—An Act Concerning Connecticut's Energy Future* resulted in partial restoration of funds for Program Year 2019, and full funding for Program Years 2020 and 2021. To deter future funding diversion efforts, Public Act 18-50 changed the structure of how energy efficiency programs are funded in the state. The Companies note that there was a third-party effort to restore these funds which was unsuccessful in court.
- **Weatherization.** The Companies have increased budgets in the 2022-2024 term toward their weatherization programs to continually increase the number of homes being weatherized in an attempt to help the State achieve its goal of weatherizing 80 percent of residences by 2030. The Companies are working with DEEP to report on the statistics. The Companies have been actively working to participate in efforts to address weatherization health and safety barriers in homes and have participated in discussions with DEEP and the EEB to secure additional funding to remediate these weatherization barriers (see Section 2.5.1). In addition, the Companies will continue their long-term partnership with the Community Action Agencies to assist in cost sharing energy efficiency measures for federal Weatherization Assistance Partnership (WAP) projects including direct-install measures, ductless heat pumps, water heating equipment, administrative fees, heating system replacements, insulation, and windows.
- **Cost-effectiveness tests.** The Companies follow the current guidance from DEEP regarding the use of cost-effectiveness tests. Please see Section 5 for more details regarding the cost-effectiveness tests used to develop the Plan's programs, budgets, and savings.
- **Winter peak demand.** The Plan increases efforts for demand management programs for both electric and natural gas customers. CNG and SCG will conduct several natural gas demand response programs in the 2022-2024 term. Input

was used from the Avoided Energy Supply Cost (AESC) study completed in 2021 and the value of benefits are included in program design and incentives. See Section 5 for more details regarding the AESC study.

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Municipal energy data.** The Companies track and report the aggregate energy consumption data by municipality on the Clean Energy Communities dashboard ([www.ctenergydashboard.com](http://www.ctenergydashboard.com)) on an annual basis. For the 2022-2024 term, the Companies will continue their partnership with the EPA and provide ENERGY STAR Portfolio Management technical support related to the automatic transfer of billing data to the Portfolio Manager software. The Portfolio Manager software helps businesses and municipalities track their energy and water consumption, as well as their greenhouse gas emissions. This technical support also supports clean energy task forces, community-based organizations, and environmental groups in tracking the environmental benefits associated with their energy efficiency efforts. In addition, the Companies will continue to provide benchmarking and data analysis support to Connecticut towns and cities who request support. This support will be provided through the technical expertise of the Companies and third-party experts.

#### **Board Response:**

- See Companies’ responses above regarding the CES timing, winter peak demand and municipal energy data.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies’ ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.
- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we

lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut’s goal of weatherizing 80% of residences by 2030.

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#### 14) Dwayne Escola

**Representing:** Ridgefield Action Committee for Climate

**Date Input Received:** August 18, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

*Mr. Escola suggested:*

- 1) *That the 2022-2024 Energy Efficiency Plan be modified to eliminate all incentive payments to homeowners and businesses owners who purchase equipment that burns fossil fuels such as #2 oil, natural gas, or propane;*
- 2) *Any of the funds currently in the plan targeting oil and natural gas furnaces should be added to the incentives for heat pumps;*

*Mr. Escola also disapproves of any dollars he pays each month to Eversource per the electric bill charge labeled “Combo Public Benefit” going to an incentive given to a homeowner or business owner as an incentive to help purchase equipment that burns fossil fuel!*

**Companies’ Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Natural gas energy efficiency programs.** The 2022-2024 Plan covers years 16-18 of natural gas energy efficiency programs as legislative required by *Public Act 05-01—An Act Concerning Electricity and Energy Efficiency*. This legislation created a funding mechanism for the Natural Gas Companies to develop and implement cost-effective energy efficiency programs that reduce natural gas consumption for residential and C&I customers. Legislation does



not allow the Companies to use contributions from natural gas customers (on firm rates) through the natural gas Conservation Adjustment Mechanism (CAM) to pay for electric measures, including heat pump technologies.

**Board Response:**

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

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15) Charles Rothenberger

**Representing:** Save the Sound

**Date Input Received:** August 18, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

***RE: Equity***

*Mr. Rothenberger stated that due to the disparate energy burden faced by low- income households, we must provide building weatherization and energy efficiency improvements for low-income households*

***RE: Decarbonization***

*With respect to the decarbonization goals in the plan, he said we should:*

- *Increase the deployment of heat pumps systems to replace fossil- fuel heating systems.*
- *Discontinue subsidies for fossil-fuel fired heating equipment and appliances.*
- *Expand clean distributed energy systems such as solar and build out a smart grid that can provide both energy and bill savings through demand response programs.*
- *Improve consumer outreach and education around heat pump systems.*

**Companies' Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to

purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.

- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

- **Electrification and clean energy systems.** The Companies will promote the co-delivery of energy efficiency and demand management programs that support decarbonization and carbon neutrality, including smart thermostats, electric vehicle chargers, and battery storage. Additionally, the Companies will continue to support and implement the Public Utility Regulatory Authority's (PURA) grid modernization efforts. The Companies will encourage customers to adopt "smart" technologies that enable two-way communications between customers' equipment/systems with electric grid operators. In addition, the Companies will scale up their active demand response offerings for electric vehicle charging by establishing make-ready requirements for residential new construction projects, in addition to continuing to incentivize new construction projects that comply with solar photovoltaic make-ready protocols.

#### **Board Response:**

- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

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16) Gannon Long

**Representing:** Operation Fuel

**Date Input Received:** August 18, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

- *CT's \$707 million, 3-year, ratepayer funded investment must leverage every opportunity to address our global climate crisis, which accelerates by the day.*
  - *Do more to democratize and disclose data throughout the year so stakeholders can more easily engage in Plan development.*
  - *Include explanations of how previous initiatives, such as the heat pump pilot and the weatherization barriers pilot, have performed.*
  - *Measure and track progress toward CT's goal of net zero emissions by 2040 (DEEP Integrated Resource Plan, 2019), and find ways to increase participation each year.*
  - *Include strategies for how to update stakeholders on the process, data and information could and should be presented via dashboard on the Energize CT website, throughout the year.*
- *Provide a clear accounting of how energy savings are achieved, and how equitably the benefits are allocated in order to align with the State's climate goals*
- *To accurately measure the companies' impact on decarbonizing CT's economy, we need DEEP and the EEB to account for utilities' carbon-intensive business ventures, such as the gas expansion program (Docket 13-02-06RE05) and include the added emissions in an evaluation of the Companies' overall performance.*
- *Adjust goals so that they increase, rather than decrease, over time AND ensure they are proportionate to each Companies' share of the market*
- *Ramp up heat pump deployment;*
  - *Improve websites, marketing plans to increase education and awareness of heat pump systems.*
  - *Provide performance data from the heat pump pilot so stakeholders can engage.*
- *Expand and develop a workforce with the technical labor and expertise involved.*
- *Improve customer education around energy efficient appliances, especially expensive, large household devices; see full text for multiple, specific ideas.*
- *Include performance metrics for equity that the companies are incented to meet and penalized for missing.*
  - *Advance equity goals every year and regularly update metrics on an accessible dashboard*
  - *The 2022-24 plan should refer to the previous C&LM document, sharing with readers what was achieved and what was missed, so that we can progress over the next three-year cycle.*
- *Combat bad actors and misinformation in the market, both by tracking instances more actively and proactively clarifying misinformation and protecting consumers from fraud.*
- *Develop maps of high energy burdened communities and community-based organizations*

- *Focus behavior-based programs on wealthy households with large carbon footprints due to excessive consumption rather than burdened households.*
- *Equity doesn't mean "equal" or "proportional;" as they have been overburdened and underserved by our energy efficiency plans for years, energy burdened communities in our state merit additional investment now.*

#### **Companies' Response:**

- **Diversity, equity, and inclusion (DEI) consultant.** On July 21, 2021, DEEP issued its Final Phase I Actions and Recommendations as part of its Equity in Energy Efficiency (E3) proceeding (see Section 1.3.2). The final determination contains eight high-level goals and nineteen associated action items. Action item 1.1. directs the EEB to develop a plan to hire a DEI consultant. Throughout the 2022-2024 term, the Companies will work with the DEI consultant's recommendations to design new pathways and make process improvements to align program delivery with the E3 proceeding's goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024).
- **Cost-effectiveness tests.** The Companies follow the current guidance from DEEP regarding the use of cost-effectiveness tests. Please see Section 5 for more details regarding the cost-effectiveness tests used to develop the Plan's programs, budgets, and savings.
- **Updates regarding metrics and goals.** Goals are tracked on a monthly basis against the goals noted in the Plan Tables. These goals include: units, savings (energy and demand), and greenhouse gas reductions. These metrics are updated on the [ctenergydashboard.com](http://ctenergydashboard.com) website and in EEB meetings.
- **Workforce development.** The latest Plan text expanded the description of the Companies' Workforce initiatives. The Companies will work with EEB Consultants to develop appropriate metrics.
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the [EnergizeCT.com](http://EnergizeCT.com) website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

#### **Board Response:**

- **Plan development process and public participation.** As noted in the Companies' responses, there have been multiple opportunities for public participation and feedback during the development of the 2022-2024 Three-year Plan. That

said, the Board recognizes that communications regarding the Plan development process and timeline can be improved so that stakeholders better understand how the process unfolds and to enhance access to Plan materials on the Energize CT website. Work has already started on improving access to Plan materials on EnergizeCT.com. The Board will fully consider all of the comments received on Plan development and public participation when it begins its 2023 Plan Update process in mid-2022.

- **Data availability.** A wealth of detailed program data is available on historic and current program and portfolio level performance. However, the Board acknowledges that these data and reporting are not optimally organized and presented in a manner that facilitates their accessibility by the public. The Board, the Companies and DEEP are already starting to address the issue of program data availability and accessibility and plan to make significant changes to the Energize CT website over the coming months to address this matter, much of this as part of the planned update to the EnergizeCT.com website in 2022.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Reaching underserved and burdened customers.** Equitably serving those customers (both residential and C&I) who have not historically been adequately served and/or have high energy burdens has become a priority focus. With new performance management incentive (PMI) metrics that prioritize hardship and burdened customers and businesses, along with DEEP's new DEI Consultant whose primary focus will be the C&LM programs, equity issues are a top priority in the 2022-2024 Plan.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings.

Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

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**17) Stephen Lewis**

**Representing:** Greater Hartford Sierra Club

**Date Input Received:** August 18, 2021

**Input Method(s):** Written and verbal comments

**Requests/Comments:**

*Sierra Club Connecticut urges the Energy Efficiency Board to send the draft CLM Plan back to the utilities for redrafting to strengthen the decarbonization and equity components of the plan so that it:*

- *Stops subsidizing new fossil fuel appliances and heating systems now.*
- *Invests only in zero-emission electric appliances and zero-emission heat pump space and hot water heating.*
- *Includes achievable numeric goals to reach underserved and energy burdened households, resources to support those goals, and accountability measures for ensuring they are met.*
- *Creates more significant savings targets for Natural Gas overall.*
- *Sets measurable goals and timeframes for heat pump deployment.*
- *Increases Natural Gas savings goals.*
- *Develops robust metrics to track and measure equity objectives.*

**Companies' Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.
- **Diversity, equity, and inclusion (DEI) consultant.** On July 21, 2021, DEEP issued its Final Phase I Actions and Recommendations as part of its Equity in Energy Efficiency (E3) proceeding (see Section 1.3.2). The final determination contains eight high-level goals and nineteen associated action items. Action item 1.1. directs the EEB to develop a plan to hire a DEI consultant. Throughout the 2022-2024 term, the Companies will work with the DEI consultant's recommendations to design new pathways and make process improvements to align program delivery with the E3

proceeding's goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024).

- **Natural gas tables.** Similar to other Plan filings, the Companies have included natural gas savings in the Plan.
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

#### **Board Response:**

- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics at least monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.
- **Reaching underserved and burdened customers.** Equitably serving those customers (both residential and C&I) who have not historically been adequately served and/or have high energy burdens has become a priority focus. With new performance management incentive (PMI) metrics that prioritize hardship and burdened customers and businesses, along with DEEP's new DEI Consultant whose primary focus will be the C&LM programs, equity issues are a top priority in the 2022-2024 Plan.

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**18)** Leticia Colon de Mejias

**Representing:** Self

**Date Input Received:** August 18, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

*Ms. Colon de Mejias indicated that it was impossible for individuals who are unaware of the policies, procedures, conservation and energy management plan to engage in the development process. Ms. Colon de Mejias believes there is a lack of qualified workforce available to address anything in the Plan as it relates to energy efficiency.*

- *Board should take intentional efforts to engage communities who have been historically left behind, including renters, communities of color, and low-to-moderate households.*
- *The Plan should improve its marketing strategy and outreach so consumers are more aware of programs, concepts, resources, and engagement opportunities.*
- *The Plan should include a robust workforce development program that is inclusive, diverse, and reaches communities we wish to serve and engage.*
- *Create an accessible and equitable curriculum for schools that educates students about energy, climate change, or any issues and information that would empower them to make informed decisions, participate in the workforce or engage in programs.*

**Companies' Response:**

- **Workforce development.** Training and growing the energy efficiency workforce is a key priority for the Companies In the 2022-2024 term. The Companies plan to implement a proactive Workforce Development Strategy that focuses on growing the energy efficiency workforce and recruiting/training workers from underrepresented communities, such as ethnic and racial minorities, and women. In addition, the Companies plan to provide energy efficiency seminars to schools and community-based organizations to help educate students and educators on various careers and career paths in energy efficiency available to students. Please see Section 4.3 for more discussion regarding the Companies' workforce development efforts.



- **K-12 energy education.** The Companies administer the *eesmarts* program; an initiative designed to educate K-12 students about energy, energy efficiency, clean energy sources, and the inextricable link between energy consumption and climate change. In the 2022-2024 term, the Companies will empower educators and build district capacity in teaching energy efficiency by continuing to offer its *eesmarts District Trainer* initiative. The initiative offers in-person and virtual professional development at no cost to educators and districts and has allowed the Companies to reach more educators across the state. In an effort to recruit educators who reflect the diversity of the state, the Companies plan to increase the number of professional development workshops offered.

In addition, the Companies will initiate the conversion of *eesmarts* lessons into a web-based or application (App) platform. A finding from program implementation during the pandemic is that K-12 educators need access to online and consumable lessons on a 24/7/365 basis. This transition to a web-based platform will expand the target market to include home schoolers, distance learners, and parents.

- **Outreach to underserved and energy-burdened households.** The Companies have recently launched the Community Partnership Initiative, a community-based approach that focuses on partnerships between the Companies, organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Portfolios. These community organizations have the trust of the community and the insight to make inroads in awareness and to drive increased participation in energy efficiency and demand management. These outreach efforts will ensure that the benefits of energy efficiency and demand management reach all residential customers across the state, particularly for customers who reside in distressed, environmental justice, and non-English speaking communities.
- **Marketing and outreach.** The Companies have included their statewide marketing plan as Appendix A to the Plan. Statewide marketing efforts will support the greater plan key themes of equity, energy affordability, and decarbonization by providing a place for all customers to easily access energy efficiency program information and resources. The 2022–2024 Plan years will focus and build on the EnergizeCT.com redesign. A site that provides clear information that is easily located allows us to confidently expand our use of the site and drive additional traffic to non-supplier choice pages. Content creation efforts for both the site and Energize Connecticut social media channels will continue to enhance the visitor’s experience while directing visitors to information on key areas including heat pump education, a clear path to income-eligible solutions, weatherization education, and business solutions for underserved sectors.

#### **Board Response:**

- See Companies’ response to educational programs.
- **Plan development process and public participation.** As noted in the Companies’ responses, there have been multiple opportunities for public participation and feedback during the development of the 2022-2024 Three-year Plan. That said, the Board recognizes that communications regarding the Plan development process and timeline can be improved so that stakeholders better understand how the process unfolds and to enhance access to Plan materials on the Energize CT website. Work has already started on improving access to Plan materials on EnergizeCT.com. The Board will fully consider all of the comments received on Plan development and public participation when it begins its 2023 Plan Update process in mid-2022.
- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance

Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.

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**19) Adelheid Keopfer**

**Representing:** Self

**Date Input Received:** August 18, 2021

**Input Method(s):** Verbal comments

**Requests/Comments:**

*At the time her heat pump was installed, Ms. Keopfer was told there were no residential heat pumps that could operate below 35 degrees. Ms. Keopfer stated that low-temperature equipment is available in other parts of the world, France and Canada. The Plan should improve training and understanding around heat pump systems so contractors and other third-party companies are aware of available equipment.*

- *Ms. Keopfer requested that municipal utilities be included in the Plan.*
- *The Plan should address the backlog for energy efficiency services. (she had to wait six months when she requested a HES)*
- *Distributed generation and storage should be included in the Plan, particularly as it relates to winter peak challenges for electric heating systems.*

**Companies' Response:**

- **Municipal energy efficiency programs.** *Public Act 05-01—An Act Concerning Electricity and Energy Efficiency* created energy efficiency programs and a funding mechanism for the Connecticut Municipal Electrical Energy Cooperative (CMEEC) and Wallingford Electric Company . The Companies do not administer CMEEC and Wallingford Electric Company programs and are not responsible for developing an energy efficiency and demand management plan for municipal utilities.
- **Workforce development.** Training and growing the energy efficiency workforce is a key priority for the Companies In the 2022-2024 term. The Companies plan to implement a proactive Workforce Development Strategy that focuses on growing the energy efficiency workforce and recruiting/training workers from underrepresented communities, such as ethnic and racial minorities, and women. In addition, the Companies plan to provide energy efficiency seminars to schools and community-based organizations to help educate students and educators on various careers and career paths in energy efficiency available to students. Please see Section 4.3 for more discussion regarding the Companies' workforce development efforts.
- **Battery storage.** In 2020, Eversource launched its Residential Battery Storage offering as a part of its Active Demand Response programs (see Section 2.8.3 for more details). On July 28, 2021, PURA issued its final decision in Docket No. 17-12-03RE03 as part of its grid modernization docket. The regulatory decision established a statewide electric storage program (Electric Storage Program) for all residential and C&I customers within the service territories of the electric distribution companies (EDCs). PURA established two compensation mechanisms for electric storage systems participating in the Electric Storage Program: (1) an upfront incentive administered by the CT Green Bank, and (2) performance-based incentives administered by the EDCs (i.e., the Electric Companies). The Electric Storage Program is administered and funded outside of the framework for the 2022-2024 Plan. During the 2022-2024 term, Eversource

will monitor its Residential Battery Storage offering to determine how this initiative will interact with PURA's Electric Storage Program or be replaced.

- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

#### **Board Response:**

- See Companies' responses regarding municipal utilities and battery storage.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.

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20) James Root

**Representing:** Self

**Date Input Received:** August 18, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*The EEB energy efficiency Plan needs to be brought into line with Connecticut's greenhouse gas (GHG) emission goals. Please stop subsidizing methane (natural gas) appliances.*

*Also: a paragraph or two, at least, outside the education goals section, addressing the state's GHG goals, their in-congruence with methane promotion and investment, and the state's plan (or plan for a plan), to reconcile the two (GHG goals and efficiency) would be appreciated. Please, at least, acknowledge the need for EEB to start orienting itself on a post fossil fuel future.*

**Companies' Response:**

- **Alignment with State's greenhouse gas emissions reductions goals.** The Plan contains quantifiable data regarding the Companies' greenhouse gas emissions reductions goals (overall, by Portfolio, and by program, where applicable). The Plan and its resulting greenhouse gas emissions reductions are designed to help the State of Connecticut to reduce its carbon footprint and meet its [the State's] legislative and regulatory goals of reducing carbon dioxide, sulfur oxides, and nitrous oxides. The Companies are in compliance with all legislative and regulatory decisions regarding greenhouse gas emissions reductions. The Plan will be modified in two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024) to align all program goals (e.g., priorities, energy savings, and greenhouse gas emissions reductions) with DEEP's 2021 Comprehensive Energy Strategy which is anticipated to be released later in 2021.
- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.

**Board Response:**

- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial

boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

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## 21) Aziz Dehkan

**Representing:** Connecticut Roundtable on Climate and Jobs

**Date Input Received:** August 18, 2021

**Input Method(s):** Written comments

### Requests/Comments:

*The Plan and its administrators should consider fair wages and accessibility/diversity (people of color, women, individuals from low-income zip codes, people who have formerly been incarcerated, and others who have historically been underrepresented or face barriers to employment in this sector) fundamental to workforce development.*

- *Consider whether contractors working under these programs can afford to pay the workers implementing these programs sufficient wages.*
- *Contractor bids for these programs must not be a “race to the bottom” and in addition to cost, factors like employee training, wages, and benefits should be considered as fair pay is an equity metric.*
- *Contractors should be evaluated not only on the basis of diverse leadership, but also by whether diversity is represented throughout the company’s workforce.*
- *Leverage apprenticeship and pre-apprenticeship training programs that are specifically designed to give opportunities to underrepresented workers.*
- *Engage administrators of these programs in conversations on effectively recruiting and retaining energy efficiency workers through effective communications.*

### Companies’ Response:

- **Diversity, equity, and inclusion (DEI) consultant.** On July 21, 2021, DEEP issued its Final Phase I Actions and Recommendations as part of its Equity in Energy Efficiency (E3) proceeding (see Section 1.3.2). The final determination contains eight high-level goals and nineteen associated action items. Action item 1.1. directs the EEB to develop a plan to hire a DEI consultant. Throughout the 2022-2024 term, the Companies will work with the DEI consultant’s recommendations to design new pathways and make process improvements to align program delivery with the E3 proceeding’s goals and associated action items. The Companies will provide updates regarding their efforts in the two Plan update filings (2022 and 2023) and the three budget reconciliation filings (2022, 2023, and 2024).

### Board Response:

- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP’s Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.

- **Workforce.** The EEB recognizes and supports the on-going development, enhancement, and training of the workforce in Connecticut that we need in order to offer the C&LM programs as we anticipate evolving services and programs to meet our goals.

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22) Sandy Tosi

**Representing:** Self

**Date Input Received:** August 18, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*The Intergovernmental Panel on Climate Change report released on August 9, 2021, makes it very clear that we need to sharply cut our emissions now.*

- *Stop subsidizing new fossil fuel appliances and heating systems, investing only in zero-emission electric appliances, heating systems, and hot water heaters.*
- *Include achievable numeric goals to reach under-served and energy-burdened households, resources to support those goals, and accountability measures for ensuring that they are met.*

**Companies' Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Outreach to underserved and energy-burdened households.** The Companies have recently launched the Community Partnership Initiative, a community-based approach that focuses on partnerships between the Companies, organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Portfolios. These community organizations have the trust of the community and the insight to make inroads in awareness and to drive increased participation in energy efficiency and demand management. These outreach efforts will ensure that the benefits of energy efficiency and demand management reach all residential customers across the state, particularly for customers who reside in distressed, environmental justice, and non-English speaking communities.

**Board Response:**

- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air

conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

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**23) Suzanne Watson**

**Representing:** Self

**Date Input Received:** August 19, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*Radiant heat is the least understood of the heating technologies and its under-valued in the existing draft Plan; the Plan should increase education and awareness of radiant heat benefits and applications and include incentives for qualified radiant heat equipment. Radiant ceiling panels like Enerjoy have been vetted to be efficient and a zero emissions product, and as such should weigh heavily into the program.*

**Companies' Response:**

- **Radiant heat technologies.** The Companies will review and evaluate radiant heat technologies and see if additional benefits can be realized. Currently, the Companies offer an incentive for radiant heaters through the C&I programs (natural gas budgets).

**Board Response:**

- The EEB supports radiation heat as a heat transfer mechanism, as well as conduction and convection. The EEB does not support offering incentives for any electric resistance heating technologies. Electric resistance heat does not compare favorably to electric heat pump heating technologies.

**24) Laura Bozzi****Representing:** Yale Center on Climate Change and Health (YCCCCH)**Date Input Received:** August 23, 2021**Input Method(s):** Written comments**Requests/Comments:**

*The Yale Center on Climate Change and Health utilizes research, education, and public health practice to help safeguard the health of human populations from adverse impacts of climate change and human activities that cause climate change.*

- *Accelerate replacement of oil, kerosene, and natural gas space and water heating with efficient electric or renewable energy alternatives.*
- *End rebates for new oil or gas heating appliances by prioritizing heat pump deployment, supported by discounted rates and targeted subsidies, so that the switch is cost-neutral for low-income households.*
- *Expand equitable incentives and funding for building retrofits to achieve electrification of end uses.*
- *Renew and expand the heat pump incentive program to serve significantly more households, including natural gas customers, and to include financial incentives that will make equipment more accessible to underserved communities.*

**Companies' Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.



**Board Response:**

- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.

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25) Erin Cosgrove

**Representing:** Northeast Energy Efficiency Partnership (NEEP)

**Date Input Received:** August 19, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*The Plan should align cost-benefit practices with state policy, specifically to:*

- *Include societal cost and benefits metrics that account for air emissions*
- *Include participant and societal non-energy benefit metrics*
- *Include metric to measure the real time cost of energy generation to account for when and how energy is generated and used.*
- *Modify the EM&V process to better align with state goals and allow for more transparency through reporting on additional metrics and publishing the data (equity, participation and location, and climate change metrics)*

*RE: Decarbonization*

- *Accelerate the transition to central air heat pumps by phasing out incentives for central air conditioning systems that are not heat pumps during this draft CL&M.*
- *Adopt additional strategies around weatherization and heat pump installation to prepare the market to deliver on these state goals.*

- *Consider designing a whole building strategy for the decarbonization strategy that includes weatherization plus beneficial electrification to ensure accelerated yet sustainable market growth and consumer adoption. Specific ideas for this strategy can be found in the full text.*

*RE: Equity*

- *Use data to identify potential participants and alleviate the highest energy burden*
- *Provide comprehensive weatherization plus repairs.*
- *Use innovative financing mechanisms to lower upfront costs.*

*Other*

- *Re-consider the role and potential for active demand response and/or time of use rates programs, especially in residential programs for this cycle. These programs can provide more than energy savings through engaging consumers.*
- *NEEP encourages the Companies to expand this Virtual Home Energy Audit program and consider an energy audit that can be done by consumers without an appointment as well as a virtual re-score pilot.*

**Company Response:**

- **Cost-effectiveness tests.** The Companies follow the current guidance from DEEP regarding the use of cost-effectiveness tests. Please see Section 5 for more details regarding the cost-effectiveness tests used to develop the Plan's programs, budgets, and savings.
- **Evaluation.** Third-party evaluations and processes are managed by the EEB's Evaluation Committee, third-party evaluation contractors, and the EEB's Evaluation Consultant. All evaluation recommendations are included in this Plan in Section 6: Evaluations.
- **Central air conditioner incentives.** During the 2022-2024 term, the Companies will encourage contractors to replace central air conditioning (ducted) units with central heat pumps by strengthening their existing channel and industry relationships and establishing a formalized contractor network for central heat pump installers. In addition, the Companies may offer larger incentives for the installation of central heat pumps.
- **Energy burdens.** In response to DEEP's Equity for Energy Efficiency (E3) proceeding, the Companies will monitor moderate-income participation and be prepared to adjust program outreach and incentives accordingly. The Companies will broaden their data collection and inclusion of multifamily properties to ensure that all buildings are receiving valuable home performance services that increase energy affordability and comfort. Outreach to multifamily building owners and tenants will also increase in the upcoming term to ensure more affordable and market-rate units are retrofitted to reduce energy consumption and customer costs. The Companies, DEEP, and the Community Action Agencies will also increase efforts to coordinate the HES-Income Eligible program with the federally-funded Weatherization Assistance Partnership (WAP) program to reach more low-income households. The Companies will use their Community Partnership Initiative as an extensive education and outreach platform to reach communities whose participation in energy efficiency programs is limited due to systemic inequity. The Companies will also work with DEEP's findings regarding a new Energy Efficiency Equity baseline (E3b) which will help identify areas of the state that have lower participation.

**Board Response:**

- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of

decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut's goal of weatherizing 80% of residences by 2030.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.

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**26)** Twenty-seven (27) individual stakeholders

**Representing:** Self

**Date Input Received:** August 17, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*Please note that this message was received via mass email communication from multiple stakeholders. The file "Comments on Draft Revisions to CT EEP" in the Box.com folder includes the written comment and its list of senders.*

*The current draft of revisions to Connecticut's energy efficiency program does not go far enough to make homes safer, more comfortable and reduce energy costs—particularly for those that are in environmental justice communities.*

*We urge you to:*

- *Partner with and subsidize community-based groups to ramp up outreach and energy efficiency initiatives,*
- *Prioritize hard to reach communities that are overburdened by pollution and deal with arrearages and shutoffs due to high energy costs.*
- *Stop subsidizing new fossil fuel appliances and heating systems now while expanding opportunities/incentives for residents and landlords to shift to efficient heat pump sources.*
- *Include a clear roadmap to assure 80% weatherization with numeric goals to reach underserved and energy burdened households, resources to support those goals, and accountability measures for ensuring they are met.*

**Companies' Response:**

- **Community outreach.** In 2021, the Companies launched the Community Partnership Initiative, a community-based approach that focuses on partnerships between the Companies, organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Portfolios. These outreach efforts will ensure that the benefits of energy efficiency and demand management reach all residential customers across the state, particularly for customers who reside in distressed, environmental justice, and non-English speaking communities.
- The Companies' equity metric requires the Companies to track participation in the HES or HES-Income Eligible programs of all single family electric customers enrolled in the Matching Payment Program and to achieve a 2.1 percent increase in participation by the end of the 2021 program year. For the 2022-2024 term, the Companies will broaden this residential equity metric to include financial and medical hardship customers.
- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer's heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.

**Board Response:**

- See Companies' response on community outreach.
- **Equity.** The EEB strongly supports equity as a key pillar of the Plan. As one of the three Plan Priorities, we have attempted to include an equity lens for all programs. We have established metrics, including Performance Management Incentives, for the Companies focused on hardship customers and underserved businesses to ensure attention is paid to those customers who can benefit most from the C&LM programs. DEEP's Diversity, Equity and Inclusion (DEI) consultant will review all the programs in 2022 and provide additional recommendations and guidance for future Plans.
- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.

- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut’s goal of weatherizing 80% of residences by 2030.

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**27)** One hundred (100) individual stakeholders

**Representing:** Self

**Date Input Received:** August 14, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

Please note that this message was received via mass email communication from multiple stakeholders. The file “Message to EEB\_Strengthen the 3 yr plan” in the Box.com folder includes the written comment and its list of senders.

*State law mandates economy-wide greenhouse gas emission reductions of 45% by 2030 and 80% by 2050, and equity and environmental justice are a top priority for the Governor’s Council on Climate Change. We urge the EEB to exert its authority and demand a revised plan that meets the following criteria:*

- *Stop subsidizing new fossil fuel appliances and heating systems now.*
- *Invest only in zero-emission electric appliances and heat and hot water systems.*
- *Include achievable numeric goals to reach underserved and energy burdened households, resources to support those goals, and accountability measures for ensuring the goals are met.*

**Companies’ Response:**

- **Incentives.** The Plan does not contain any fuel oil or propane rebates or instant discounts. There are scenarios where natural gas is the most economical choice for satisfying a customer’s heating needs and customers will choose to purchase natural gas HVAC equipment rather than installing a heat pump technology. The best option in this instance is for the customer to purchase high-efficiency natural gas HVAC equipment rather than baseline/code compliant equipment.
- **Community outreach.** In 2021, the Companies launched the Community Partnership Initiative, a community-based approach that focuses on partnerships between the Companies, organizations, nonprofits, and municipalities to reach neighborhoods and communities who have historically not participated or who have low levels of participation in the Residential and C&I Portfolios. These outreach efforts will ensure that the benefits of energy efficiency and demand management reach all residential customers across the state, particularly for customers who reside in distressed, environmental justice, and non-English speaking communities.
- **Environmental justice communities.** In the upcoming term, the Companies will introduce the Census Tract Tool to streamline customer outreach for qualified residential weatherization contractors. For select census tracts, such as distressed or environmental justice communities, residents will be eligible to receive no-cost weatherization services through the HES-Income Eligible program.
- **Decarbonization.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce

development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

**Board Response:**

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Quantifiable goals.** To provide clearer quantifiable goals and metrics, a summary of the budgets, energy savings, greenhouse gas emissions reductions, and customer savings have been added to each program section. Detailed numbers for each program, sector and company are included in the tables in the Plan Appendix. The Companies will report on progress towards these goals and metrics monthly in the Connecticut Statewide Energy Efficiency Dashboard and quarterly at the Residential and C&I Committee meetings and at the EEB meeting. Quarterly reporting will be made available to the public in an easily accessible manner on the Energize CT website.

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**28)** Seventy-nine (79) individual stakeholders

**Representing:** Self

**Date Input Received:** August 14, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*Please note that the EEB received this message via mass email communication from multiple stakeholders. The file "Public Comment on Draft CLM Plan" in the Box.com folder includes the written comment and its list of senders.*

To that end, I urge the Energy Efficiency Board to require the following changes be made to the draft 2022-2024 Conservation & Load Management Plan submitted by the electric and natural gas utilities:

- (1) First, the C&LM plan must explicitly align itself with the greenhouse gas reduction goals of the Global Warming Solutions Act.
- (2) Second, eliminate any incentives or subsidies for natural gas appliances and heating systems.
- (3) The C&LM Plan must include a strong commitment to building electrification through the increased deployment of heat pump technologies and this commitment must be expressed in terms of quantified and measurable goals.
- (4) The Plan must include a comprehensive approach to addressing health and safety barriers to weatherization to ensure that the benefits of improved energy efficiency are available to all residents and that the state can reach its ambitious weatherization goals.

#### **Companies' Response:**

- **Future modifications.** The Companies will modify the Plan in future annual Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule) in accordance with DEEP's 2021 Comprehensive Energy Strategy which is anticipated to be released later in 2021.
- **Weatherization barriers.** The Companies have been actively working to participate in efforts to address weatherization health and safety barriers in homes and have participated in discussions with DEEP and the EEB to secure additional funding to remediate these weatherization barriers (see Section 2.5.1).
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

#### **Board Response:**

- **State policy and goals.** The C&LM programs play an important role in helping the State of Connecticut achieve its greenhouse gas emission goals, specifically in the building sector. Through energy efficiency and demand response we lower energy use and shift it away from times of day when generation resources are most constrained. Typically, these periods of high usage coincide with the operation of generation with higher emissions. The adoption of decarbonization as a one of the three key Plan Priorities of this Plan represents a clear commitment on the part of the

Board and the Companies to an increased emphasis on greenhouse gas reductions. To this end we continue to work to assess the appropriate program support for heat pumps and gas-fired equipment in both existing and new buildings. Further, the Board continues to work closely with the CT Green Bank to support their efforts to promote renewable technologies in Connecticut buildings and homes.

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.
- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut's goal of weatherizing 80% of residences by 2030.

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29) Oliver Tully

**Representing:** Acadia Center

**Date Input Received:** August 23, 2021

**Input Method(s):** Written comments

**Requests/Comments:**

*Acadia Center respectfully submits the following comments:*

- *The decline of claimable savings from lighting and other low-touch measures is an opportunity for program administrators (PAs) to develop innovative programs that drive deeper savings in Connecticut.*
- *Acadia Center's [Next Generation Energy Efficiency](#) seeks to elevate the role of energy efficiency in improving housing quality, drive down emissions, and align efficiency and electrification. These principles should guide energy efficiency programs in Connecticut.*
- *Heat pumps and weatherization—both cost-effective efficiency measures—must be included as top-line goals for the 2022-2024 C&LM Plan.*
- *Weatherization can compound savings from electrification of space heating equipment.*
- *Program administrators must address inequitable access to efficiency services.*



- *The next C&LM Plan can increase savings and align more closely with state climate commitments at the same time by orienting programs more explicitly toward reducing emissions.*

#### **Companies' Response:**

- **Pursuing energy-saving opportunities.** During the 2019-2021 term, the Companies recognized that the lighting marketplace had transformed and had already shifted their support (via programs and incentives) toward active demand response strategies, weatherization measures, and low-carbon technologies. For the 2022-2024 term, the Companies will promote the co-delivery of energy efficiency and demand management programs that support decarbonization and carbon neutrality, including smart thermostats, electric vehicle chargers, and battery storage.
- **Weatherization.** The Companies have increased budgets in the 2022-2024 term toward their weatherization programs to continually increase the number of homes weatherized (through HES or HES-Income Eligible programs) to help the State achieve its goal of weatherizing 80 percent of residences by 2030. The Companies are working with DEEP to report on the statistics. The Companies have been actively working to participate in efforts to address weatherization health and safety barriers in homes and have participated in discussions with DEEP and the EEB to secure additional funding to remediate these weatherization barriers (see Section 2.5.1). In addition, the Companies will continue their long-term partnership with the Community Action Agencies to assist in cost sharing energy efficiency measures for federal Weatherization Assistance Partnership (WAP) projects including direct-install measures, ductless heat pumps, water heating equipment, administrative fees, heating system replacements, insulation, and windows.
- **Heat pumps.** The Companies note that decarbonization is one of the three key priorities for the 2022-2024 term and that heat pump technologies will play a critical role in achieving this objective. In the final draft of the Plan, the Companies address the ramp-up, promotion, and funding for heat pumps, as well as detail their plans for workforce development, contractor training, customer education, and cross-promotion of heat pump technologies across the Residential (Section Two), C&I (Section 3), and Education, Workforce & Community Outreach Portfolios (Section 4). The Companies will review evaluation findings of the 2019-2021 heat pump pilot and will address the study's findings in future Plan Updates or Budget Reconciliation filings (see Executive Summary for high-level schedule). The final Plan text includes quantifiable data regarding heat pump unit goals for the 2022-2024 term. The Companies will continue to track and report on heat pump goals (and other programs) at the EEB's monthly Residential committee meeting and in the Companies' compliance filings to DEEP.

The Companies will continue to work with other regional program administrators to maintain a regional Qualified Products List (QPL) for air source heat pumps. The QPL ensures that qualifying product inventory is available to contractors within the local supply chain and prior to expanded trainings across the region and all 2022-2024 trainings will reflect the new QPL. For more information regarding the Companies' heat pump technology training efforts, see Section 2.3.2. The Companies will develop customer-facing tools, such as a contractor locator tool to direct customers to qualified heat pump installers. To advance electrification of heating and cooling equipment, the Companies will prioritize marketing tactics that promote the benefits of heat pump technologies, refresh the EnergizeCT.com website, create an "All Things Heat Pumps" webpage, and conduct ongoing pulse surveys to better understand and track customer awareness and perceptions of heat pump technologies.

#### **Board Response:**

- **Fossil fuel incentives.** The EEB will consider phasing out of incentives for new gas equipment for measures where backsliding to less efficient equipment is unlikely. For example, a recent evaluation has found that the C&I boiler market is largely transformed, such that it is now industry standard practice in many cases for customers to purchase an efficient condensing boiler for new construction or at end of life for an existing boiler. As a result of this finding, the baseline has risen to a point where it may not be cost effective anymore to offer incentives for many commercial

boilers. Additionally, the Companies will investigate whether program supported condensing gas equipment is replacing existing condensing equipment and if so, whether there is continued need to do so. However, there are processes that currently use natural gas where there is either no cost-effective electric alternative or no electric alternative at all. For these measures the EEB supports continued incentives for gas-fired equipment in order to increase energy performance and reduce carbon emissions.

- **Decarbonization/heat pumps.** The EEB supports electrification when the project is cost effective, as required by statute, and where it makes financial sense for the customer (the customer will save money from making the change). Opportunities are most cost effective in new construction and when a heat pump replaces end-of-life existing air conditioning equipment. The results from the Companies' ongoing heat pump pilots and any related EM&V studies will inform future efforts in this area and will be incorporated into subsequent C&LM Plan updates.
- **Weatherization.** The EEB has strongly supported increased comprehensive weatherization through the Home Energy Solutions (HES) and Home Energy Solutions – Income Eligible (HES-IE) programs in addition to requiring more DOE Home Energy Scores be provided to program participant to encourage implementation of follow-on measures. We have also actively supported development of a Health and Safety Barriers Remediation program at DEEP to increase home eligibility for weatherization along with better integration with the low-income Weatherization Assistance Program (WAP). All of these efforts will help support reaching Connecticut's goal of weatherizing 80% of residences by 2030.

## APPENDIX C: COMPLIANCE ORDERS

### APPENDIX C.1 2013-2015 C&LM PLAN – COMPLIANCE WITH ORDER 12 AND ORDER 33

Item No.	Topic or Program	Condition of Approval	Due Date	Status
12	<b>Docket No. 13-03-02 – PURA/BETP Consideration of 2013-2015 Conservation and Load Management Plan – Compliance with Order 12 and Order 33</b>	<p>Order No. 12 states (Electric &amp; Gas)</p> <p>DEEP requires that performance incentives be calculated based upon the actual expenditures and the savings achieved, which are to be scaled proportionally from the projected budget and savings goals to the actual budget at year’s end. The Department’s intent is for both EDC and LDC performance incentives mechanisms to operate identically. These calculations shall be done when year- end actual data is available and submitted in an Annual Update to the Department no later than March 1 of interim years.</p>	03/01/20	<p>Filed on 02/28/2020</p> <p>Filed on 02/25/2021</p>
33	<b>Docket No. 13-03-02 – PURA/BETP Consideration of 2013-2015 Conservation and Load Management Plan – Compliance with Order 12 and Order 33</b>	<p>Order No. 33 states (Electric &amp; Gas)</p> <p>By March 1, 2015, and annually thereafter, the Companies shall provide a summary of actual data for the previous program year.</p>	<p>03/01/20</p> <p>03/01/21</p>	<p>Filed on 02/28/2020</p> <p>Filed on 02/25/2021</p>

## APPENDIX C.2 2019-2021 CONSERVATION & LOAD MANAGEMENT PLAN WITH APPROVAL

Item No.	Topic or Program	Condition of Approval	Due Date	Status
2	<b>Equitable Distribution Data</b>	Pursuant to CGS Sec. 16-245ee, each EDC must annually submit to DEEP and the Energy Efficiency Board the prior calendar year's Equitable Distribution data on a form prescribed and provided by DEEP no later than July 1, and also submit an updated method of census tract identification and economic status that determines whether the census tract is distressed. This data shall be provided on a census tract basis, or if not available by census tract, on a town-by town basis, the amount of conservation program funds assessed and the amount of incentives expended, disaggregated as small or large customers according the 100kW peak demand threshold, and further disaggregated by customer class (i.e., Residential and C&I). The residential data component for small customers shall be disaggregated by the HES and HES-IE programs and identify the total number of projects participating in each program and disaggregate those project numbers by housing stock (i.e., single family, multifamily (2-4 units), and multi-family (> 4 units)). Though the statute requires submission on a census tract basis, the companies have noted in the past that a town-by-town submission is less costly, more useful to municipalities, and would streamline the analysis. DEEP requests that the companies provide written explanations of their position no later than February 1, 2019. This could include an analysis of the approximate number of homes that could be served in place of expending the budget on third-party census tract analysis.	02/01/19  07/01/19  07/01/20  07/01/21	Filed on 01/25/19  Filed on 05/29/19  Filed on 06/29/20  Filed on 06/30/21
3	<b>Propose a Frequency to Conduct Financial and Operational Audits; Conduct Such Audits on the Approved Frequency Schedule</b>	No later than March 1, 2019, the Companies shall propose, with a revised budget as needed, a process and frequency to routinely conduct a Financial Audit or alternately, Agreed Upon Procedures review, and to routinely conduct an Operational Audit of the Conservation and Load Management Plan, consistent with standard practices. The processes should cover each program year for each audit, however multiple years may be included in a single audit. No later than July 1, 2019, the Companies shall develop and propose the timeline for routinely conducting the audits of the Conservation and Load Management Plan.	03/01/19  07/01/19  09/30/19  09/30/20	Filed on 2/14/19  Requested extension from 7/01/19 to 9/30/19  Filed on 9/30/19  Filed 9/30/2020

**2019-2021 Conservation & Load Management Plan with Approval (continued)**

Item No.	Topic or Program	Condition of Approval	Due Date	Status
<b>There is no Item Number</b>	<b>2021 Plan Update</b>	<p>2021 Update of the 2019 to 2021 combined Electric and Natural Gas Conservation and Load Management Plan (the 2019-2021 Plan) and the 2021 Program Savings Document (PSD)</p> <p>2021 Plan Update – Refiled to include DEEP Conditions of Approval filed on March 4, 2021 after the Companies’ March 1, 2021 Filing</p>	<p>11/01/20</p> <p>03/01/21</p> <p>03/15/21</p>	<p>Filed on 10/30/20</p> <p>Filed on 03/01/21</p> <p>Filed on 03/15/21</p>

### APPENDIX C.3 DEEP FINAL DECISION FOR 2020 PLAN UPDATE TO THE 2019-2021 PLAN

Item No.	Topic or Program	Condition of Approval	Due Date	Status
10	Home Energy Score	<p>1-The Companies are directed to establish a working group on the Home Energy Score. The Companies are directed to establish a working group on the Home Energy Score.</p> <ol style="list-style-type: none"> <li>1- The Companies shall submit a report to DEEP that identifies barriers to increased participation and opting-in to a Home Energy Score in the Home Energy Solutions program and recommend solutions that will help increase participation. This report should also include recommended metrics for success indicators.</li> <li>2- As a component of the report required by (1) the Companies shall submit recommendations on how to streamline rescoring homes after completing add-on measures by 7/1/2020.</li> <li>3- The report shall also include a plan for updating the Android tool such that when a contractor submits data to the Home Energy Scoring tool, the Android must use the “initial” assessment type until the Score is successfully generated, i.e., the Android must validate that the score is successfully generated. Once successful, any subsequent Scores for a given address must use the “corrected” assessment type.</li> </ol> <p>2-Metrics related to re-scoring shall be incorporated into the required report.</p>	<p>Working group by 4/01/2020</p> <p>Proposals and reports by 6/01/2020</p>	<p>This was deferred until 2021</p> <p>4/01/2021 Proposals</p> <p>7/01/2021 Report Filed</p>
11	Home Energy Score	Propose a secondary metric to PMI on market transformation that motivates the companies to increase the number of score opt-ins.	<p>Part of 2021 Plan update process</p> <p>03/01/2021</p>	The Home Energy Score Market Transformation is addressed in Section 2.5 (ref. pages 65, 72)
16	Equitable Modern Grid Decisions	Propose updates to DEEP for review and approval, as needed, to align the Plan programs with the Distribution System Planning and Grid Modernization actions described in PURA dockets on those topics.	Ongoing	Ongoing

Item No.	Topic or Program	Condition of Approval	Due Date	Status
17	Heat Pump Pilot	<p>The Companies shall propose increased pilot incentives to motivate customer participation. The benefit cost testing requirement is waived for the pilot. The Companies shall begin quarterly reporting on heat pump pilot results.</p> <p>Heat Pump Pilot – 2<sup>nd</sup> Quarter 2020</p> <p>Heat Pump Pilot – 3<sup>rd</sup> Quarter 2020</p> <p>Heat Pump Pilot – 4<sup>th</sup> Quarter 2020</p> <p>Heat Pump Pilot – 1<sup>st</sup> Quarter 2021</p>	<p>For March 30, 2020 and then ongoing quarterly</p> <p>07/01/20</p> <p>10/01/20</p> <p>12/18/20</p> <p>04/01/21</p>	<p>Filed on 03/30/20</p> <p>Filed on 06/25/20</p> <p>Filed on 09/28/20</p> <p>Filed on 12/18/20</p> <p>Filed on 03/29/21</p> <p>Filed on 08/15/2021</p>
22	Electric Resistance Heat Program	<p>The Companies shall develop and submit to DEEP for review and approval a plan to reach out to all electric heat customers with options to convert to heat pumps, including a plan to significantly increase participation by landlords whose tenants are responsible for utility bills. This proposal shall include building envelope improvements to minimize thermal load impact. The proposal should identify the optimum incentive level, including combined incentive packages and should provide a means of incentivizing efficient use during the heating season as well as the cooling season, including peak demand reduction, per the requirement below. This program should identify and track the customers, provide information on replacement programs and track the status and conversion rates. The Companies shall review and consider applicability of Seattle City Light's Energy Efficiency as a Service pilot program.</p> <p>In the 2020 Plan Update, Compliance 2020 Condition No. 22 required a plan for converting electric resistance heat pump customers. This condition instructs the Utilities to continue this plan and provide quarterly reporting beginning with Quarter 1, 2021, to assess success and determine whether additional steps may be required. Now Compliance Item No. 9 from the 2021 Plan Update.</p>	<p>07/01/20</p> <p>04/01/21</p>	<p>Filed on 06/29/20</p> <p>Filed on 03/26/21</p> <p>Reference No. 9 going forward</p>

## APPENDIX C.4 DEEP DECISION FOR 2021 PLAN UPDATE TO THE 2019-2021 PLAN

Item No.	Topic or Program	Condition of Approval	Due Date	Status
1	<b>Equity Metrics</b>	The Companies and the EEB have been working to develop secondary metrics to reflect the ongoing work to examine equity within the 2019-2021 Plan. The Companies shall finalize those 2021 Plan Update secondary metrics and submit in the March 1, 2021 filing. DEEP will review, subject to approval, once filed. Additionally, the Companies shall coordinate with the EEB and DEEP to ensure that recommended metrics received through their public processes including the Equitable Energy Efficiency (E3) Proceeding are considered.	3/01/2021	Completed  <i>Included in 2021 PMI tables in 2021 Plan Update (filed 3/01/2021)</i>
2	<b>HES Vendor Scorecard</b>	The Companies shall provide a proposed HES vendor scorecard for DEEP review and approval no later than April 1, 2021. Vendors and other stakeholders will have an opportunity to comment on the proposal. Any requested revisions should be completed by July 1, 2021. The information provided to DEEP shall include a summary of any recent feedback related to performance improvement given to individual vendors.	4/01/2021  7/01/2021	Filed on 03/26/21  <i>No revisions Were requested</i>
3	<b>Pay-for-Performance Pilot</b>	<p>DEEP is considering a stakeholder proceeding to explore best practices for implementing pay for performance. The Companies are directed to propose a pilot where ex-post, calculated energy savings drive program and vendor/contractor performance. The pilot should allow third parties to participate by developing data sharing capabilities. These programs are sometimes referred to as pay for performance programs. Incentives may be given up-front, but the profit/revenue to the company installing the measures only comes if those measures perform as estimated.</p> <p>DEEP is particularly interested in pilots with companies that support the decarbonization of home heating fuels through the deployment of technologies such as heat pumps. The Companies shall also consider how to leverage private finance or propose partnerships with companies that leverage private finance to deliver deep decarbonization while overcoming barriers to weatherization. Innovation and leveraging funds beyond the 2019-2021 Plan and other three-year plans are necessary to expand access to energy efficiency.</p> <p>A straw proposal shall be submitted to DEEP by April 1, 2021, with a target of receiving final approval from DEEP by July 1, 2021. This pilot is intended to supplement the existing HES, HES-IE, and multifamily efficiency programs to help achieve the goal of weatherizing 80 percent of homes pursuant to C.G.S. Section 16-245m(d)(1).</p>	4/01/2021	Filed on 03/25/21



Item No.	Topic or Program	Condition of Approval	Due Date	Status
4	<b>Home Energy Score Working Group</b>	<p>The Companies are directed to establish a working group on the Home Energy Score, as follows: (1) The Companies shall submit a report to DEEP that identifies barriers to increased participation and opting-in to a Home Energy Score in the HES program and recommend solutions that will help increase participation. This report should also include recommended metrics for measuring the success of Home Energy Score program. (2) As a component of the report required by (1) the Companies shall submit recommendations on how to streamline rescoring homes after completing add-on measures and interim measures for facilitating rescoring until such recommendations can be adopted by April 1, 2021. (3) The report shall also include a plan for updating the Android tool such that when a contractor submits data to the Home Energy Scoring tool, the Android must use the “initial” assessment type until the Score is successfully generated, i.e., the Android must validate that the score is successfully generated. Once successful, any subsequent Scores for a given address must use the “corrected” assessment type. (4) Metrics related to re-scoring shall be incorporated into the required report. In addition, all qualifying customers must be offered the score, and customers must decline in writing. The Companies shall also submit to DEEP, the language given to customers regarding the privacy terms and conditions of the Home Energy Score by March 4, 2021.</p>	<p>4/01/2021</p> <p>07/01/2021</p>	<p>Filed on 03/26/21</p> <p>Filed on 07/1/2021</p>
5	<b>Building Benchmarking Savings Attribution</b>	<p>The Companies, in consultation with the EEB, shall develop a proposal for savings attribution for building benchmarking that would align with the concepts in <i>S.B. 177, An Act Concerning Energy Consumption Data and Labeling</i> from the 2020 session regarding building benchmarking. The proposal shall include a program to voluntarily encourage large building owners to benchmark their buildings and address associated data access and aggregation issues. This proposal shall be developed for inclusion in the next three year plan.</p>	11/01/2021	Included in 2022-2024 Plan filed on 11/1/2021
6	<b>HES and HES-IE Renter Data Collection</b>	<p>The Companies shall develop a proposal regarding data collection on rental units within HES and HES-IE that do not proceed due to lack of landlord approval by April 1, 2021. Consistent with comments received through the E3 Proceeding, the Companies are directed to offer a roundtable with landlords on overcoming obstacles to weatherization, including HES and HES-IE notice and approval requirements. A variety of landlords will be asked to participate, such as from different towns, environmental justice communities, and Section 8 landlords. Roundtables will begin with those who are willing and interested.</p> <p>Based on this gathered information, the Companies shall then develop a proposal by June 30, 2021, for options to increase penetration into this market. This should include changes that can be implemented in 2021 as well as longer term options to be included in the next three-year plan.</p>	<p>4/01/2021</p> <p>6/30/2021</p>	<p>Filed on 03/25/21</p> <p>Filed on 06/30/21</p>

Item No.	Topic or Program	Condition of Approval	Due Date	Status
7	<b>Crumbling Foundation Customer Outreach</b>	In furtherance of Compliance Condition No. 23 of the 2020 Plan Update, the Companies shall coordinate with the CT Department of Housing to perform outreach for building envelope and heat pump programs to homeowners with a signed participation agreement from a captive insurance company established by the State of Connecticut to provide financial assistance for crumbling foundations. The Companies shall provide a report to DEEP no later than April 1, 2021.	4/01/2021	Filed on 03/26/21
8	<b>Heat Pump Pilot Increased Participation</b>	The Companies shall develop a proposal by April 1, 2021, to increase participation levels in the heat pump pilot program. The proposal shall include the barriers to date, and the changes made to address those barriers.	4/01/2021	Filed on 04/03/20
9	<b>Electric Resistance Customer Conversion to Heat Pump Reporting</b>	<p>In the 2020 Plan Update, Compliance 2020 Condition No. 22 required a plan for converting electric resistance heat pump customers. This condition instructs the Companies to continue this plan and provide quarterly reporting beginning with Quarter 1, 2021, to assess success and determine whether additional steps may be required.</p> <p>The Companies shall consider partnering with other organizations that have demonstrated success in this area and report to the EEB about such considerations by July 1, 2021, or within such time to allow for inclusion in the 2022-2024 Plan.</p>	3/31/2021  08/15/21	Filed on 03/26/21  Filed on 8/13/21
10	<b>Evaluation Penalty Metric</b>	<p>There have been significant delays in conducting evaluation studies due to contracting and data availability. DEEP recognizes that the Companies have made improvements in these areas over 2020. However, data delays have increased costs, such as in study C1901 where delays have led to increasing the budget for the study by \$20,000, an outcome which DEEP will not tolerate.</p> <p>The evaluation administrator shall submit a report to the EEB Evaluation Committee and DEEP once per quarter on any delays. DEEP directs the Companies to add a secondary metric with a weight of 1% to the 2021 Electric and Gas PMI. The change will come from a decreased spread across Residential and Commercial savings and net system benefits (Primary metric). This metric will be earned by compliance with timeline requirements for data requests and contracting requests. This metric will also be subject to the sliding scale requirement where performance less than 75% will result in a zero incentive. The Companies shall have 30 days to fulfill impact evaluation, process evaluation and program tracking data requests. If multiple requests are made at the same time, the Utilities are given an additional week to comply, or as mutually agreed upon between the evaluation administrator and the utility. The Companies, upon demonstration of progress or good cause, may request</p>	3/01/2021	Filed 3/1/2021  Included in 2021 PMI tables in 2021 Plan Update (filed on 3/1/2021).

Item No.	Topic or Program	Condition of Approval	Due Date	Status
10 (cont.)	<b>Evaluation Penalty Metric (continued)</b>	<p>up to an additional 14 days to fulfill the request. The timeline for data requests outside the evaluation types previously mentioned, including those for multi-family and commercial programs, shall be mutually agreed upon by the evaluation administrator and the Companies, and shall not take longer than 60 days to fulfill. Data requests shall be considered fulfilled if they are to the satisfaction of the evaluation administrator or DEEP. The Companies have 90 days to execute a contract once the required documentation has been submitted. The Companies must notify the evaluation administrator within ten business days if the documentation is not complete. The evaluation administrator, in consultation with DEEP, may revise a deadline. Timely performed evaluation studies are key to the continuous improvement of the C&amp;LM programs and delayed studies have a financial cost.</p>		
11	<b>Demand Response Program Reporting</b>	<p>The Companies are directed to continue the planned increase in demand response as described in the Companies' response dated December 2, 2020, to DEEP's Request for Supplemental Information dated November 24, 2020. These plans should focus on pay-for-performance programs where they demonstrate the greatest benefit. Pay for performance refers to customers receiving a greater incentive or participation payment for achieving more demand or energy savings. DEEP recognizes there may be valid reasons for structuring a program in other ways. In particular, the Companies implementing residential active demand response programs that have a flat participation incentive structure shall report to DEEP by April 1, 2021, the research that supports the program design.</p>	04/01/2021	Filed on 03/26/21
12	<b>Suspension of Municipal Engagement RFP</b>	<p>DEEP recognizes the efforts of the Companies to engage municipalities in C&amp;LM outreach to local communities through a release of a request for proposals (RFPs). DEEP is planning to take additional steps to obtain public input on the Companies' proposed municipal engagement plan and RFP and directs the Companies to hold the RFP until instructed for release by DEEP.</p>	Immediate	Completed (2021 Plan Update text is updated as well)
13	<b>Distribution System &amp; Grid Mod Planning Alignment</b>	<p>The Companies shall propose updates to DEEP for review and approval, as needed, to align the C&amp;LM Plan's programs with the Distribution System Planning and Grid Modernization actions described in Public Utilities Regulatory Authority (PURA) dockets on those topics.</p>	Ongoing	Ongoing

Item No.	Topic or Program	Condition of Approval	Due Date	Status
14	<b>ASHP and GSHP Soft Cost Examination</b>	DEEP directs the Companies to examine the soft costs of installing air-source and ground-source heat pumps. The Companies may work in consultation with the evaluation administrator to examine best practices to lower customer acquisition costs and installation costs beyond the hardware/technology costs. The Companies shall report initial findings by July 1, 2021 and propose any steps to be taken within such time to allow for inclusion in the 2022-2024 Plan.	7/01/2021	Filed on 7/1/2021
15	<b>Residential EE Concierge Service Offering</b>	The Companies shall present to the EEB by the end of the first quarter of 2021, examples of residential energy efficiency concierge services that provide residential customers information about adoption of follow-on measures such as insulation, heat pumps, appliances, rooftop solar, or any opportunities to participate shared clean energy facilities.	4/01/2021	Filed on 03/26/21
16	<b>Induction Cooktop Pilot</b>	Studies have shown that gas cooking appliances negatively impact indoor air quality and lead to higher asthma rates for children. Additionally, the vast majority of customers have had little experience with induction cooktops which perform much better than traditional electric cooktops. Increasing customer familiarity with induction cooktops is likely to increase adoption of these cooktops, and the overall willingness to purchase all-electric homes. As such, DEEP directs the Companies, in consultation with the EEB, to investigate this topic and be prepared to include in the 2022-2024 Plan, a pilot program to provide incentives for induction cooktops that replace existing electric or gas cooktops and if appropriate, a plan or program to increase customer awareness of induction cooktops.	11/01/2021	Filed in 2022-2024 Plan on 11/01/2021
17	<b>CEE Super-Efficient Home Appliances Initiative</b>	The Companies shall present to the EEB on the Consortium for Energy Efficiency's (CEE) Super-Efficient Home Appliances initiative as part of the development of the next three-year plan. More generally, the Companies are encouraged to report on other CEE initiatives that may be considered in the 2022-2024 Plan.	11/01/2021	Filed in 2022-2024 Plan on 11/01/2021
18	<b>HES &amp; HES-IE Arrearage Marketing</b>	The Companies are instructed to prioritize the targeting of the HES and HES IE programs to those with the largest arrearages and the most frequent shutoffs. The Companies shall provide a report to DEEP detailing their planned marketing to this target population by April 1, 2021. The Companies shall also develop and file a report to DEEP describing the results of its marketing efforts to these communities by May 1, 2021 and continue reporting on a quarterly basis.	4/01/2021 (Marketing plan filed)  5/01/2021 and quarterly thereafter (Filed results updates)	Filed on 04/05/21

## APPENDIX D: BENCHMARKING INITIATIVE PROPOSAL

The proposal from the University of Connecticut to the Companies is to continue supporting and completing benchmarking of C&I buildings using the EPA's Portfolio Manager which includes all municipal, board of education, and commercial buildings in the Companies' services territories. The performance proposal includes:

- A building energy benchmarking summary report which will be provided by the University of Connecticut for each customer that provides all necessary documentation to be benchmarked.
- Any C&I customer can be connected to the data transfer system upon request if a portfolio is established by the customer.

An annual report will be prepared each year showing:

1. Key statistics by municipal buildings types, such as town halls and police departments, so that the Companies can use this data to plan targeted programs,
2. Customer satisfaction survey results based upon participation in the program,
3. Program impact data, such as energy reductions and greenhouse gas emissions reductions for buildings being benchmarked, and
4. A Diversity Plan that shows the hiring and development of underrepresented groups.

During the project period, five 2-hour training sessions will be conducted on the use of the EPA's Portfolio Manager for the purposes of training customers in building energy benchmarking techniques, methods, and software.

# APPENDIX E: BUDGET & SAVINGS TABLES

## E.1 BUDGET SUMMARY OF THE 2022-2024 PLAN PROGRAM YEARS

Table A – 2022 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2022 Eversource CT Electric Proposed Budget 11/1/2021	2022 UI Proposed Budget 11/1/2021	2022 Eversource CT Gas Proposed Budget 11/1/2021	2022 CNG Proposed Budget 11/1/2021	2022 SCG Proposed Budget 11/1/2021	2022 Statewide Combined Total 11/1/2021
<b>RESIDENTIAL</b>						
Residential Retail Products	\$4,158,000	\$761,503	\$ -	\$ -	\$ -	\$4,919,503
Residential New Construction	\$3,786,389	\$622,961	\$635,403	\$677,884	\$894,921	\$6,617,557
Home Energy Solutions	\$21,961,743	\$3,361,814	\$2,214,576	\$2,911,381	\$1,596,867	\$32,046,381
HVAC & Domestic Water Heating	\$13,864,673	\$2,045,313	\$4,585,934	\$1,825,036	\$2,918,842	\$25,239,798
HES Income Eligible	\$16,944,360	\$4,508,473	\$4,149,666	\$3,937,478	\$2,852,125	\$32,392,102
Residential Behavior	\$90,000	\$292,027	\$10,000	\$149,033	\$146,052	\$687,112
<b>Subtotal: Residential EE Portfolio</b>	<b>\$60,805,165</b>	<b>\$11,592,091</b>	<b>\$11,595,579</b>	<b>\$9,500,811</b>	<b>\$8,408,808</b>	<b>\$101,902,454</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$13,013,265	\$4,349,702	\$4,140,857	\$2,018,487	\$1,608,506	\$25,130,817
Energy Opportunities	\$35,333,451	\$7,817,861	\$3,769,533	\$1,147,575	\$1,059,521	\$49,127,941
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$3,125,966	\$1,157,504	\$715,350	\$665,196	\$472,119	\$6,136,134
Small Business	\$13,526,525	\$3,817,481	\$736,472	\$310,869	\$231,969	\$18,623,315
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 64,999,207</b>	<b>\$ 17,142,548</b>	<b>\$ 9,362,211</b>	<b>\$ 4,142,127</b>	<b>\$3,372,115</b>	<b>\$ 99,018,208</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Residential Demand Response	\$2,840,000	\$580,814	\$ -	\$51,485	\$155,468	\$3,627,767
C&I Demand Response	\$4,253,000	\$315,975	\$ -	\$140,292	\$140,292	\$4,849,559
<b>Subtotal: Load Management</b>	<b>\$7,093,000</b>	<b>\$896,789</b>	<b>\$ -</b>	<b>\$191,777</b>	<b>\$295,760</b>	<b>\$8,477,326</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education	\$736,000	\$184,000	\$76,667	\$76,667	\$76,667	\$1,150,000
Workforce Development	\$793,600	\$198,400	\$82,667	\$82,667	\$82,667	\$1,240,000
Community Outreach	\$768,000	\$192,000	\$80,000	\$80,000	\$80,000	\$1,200,000
Customer Engagement Initiative	\$400,000	\$80,000	\$70,000	\$50,000	\$50,000	\$650,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$2,697,600</b>	<b>\$654,400</b>	<b>\$309,333</b>	<b>\$289,333</b>	<b>\$289,333</b>	<b>\$4,240,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Residential Loan Program (includes ECLF and OBR)	\$2,500,000	\$150,799	\$84,523	\$86,292	\$86,292	\$2,907,906
C&I Financing Support	\$1,000,000	\$85,000	\$93,905	\$20,000	\$75,000	\$1,273,905
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
<b>Subtotal: Programs/Requirements</b>	<b>\$3,662,227</b>	<b>\$387,049</b>	<b>\$228,428</b>	<b>\$156,292</b>	<b>\$211,292</b>	<b>\$4,645,289</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$902,597	\$187,520	\$150,933	\$159,218	\$159,219	\$1,559,487
Marketing Plan	\$430,380	\$121,400	\$40,100	\$40,100	\$40,100	\$672,081
Planning	\$703,170	\$173,820	\$79,158	\$102,465	\$102,465	\$1,161,078
EM&V	\$2,880,000	\$720,000	\$300,000	\$300,000	\$300,000	\$4,500,000
Evaluation Administrator	\$284,232	\$71,057	\$29,607	\$29,607	\$29,607	\$444,110
Information Technology	\$1,839,097	\$1,135,164	\$140,726	\$574,589	\$540,590	\$4,230,165
Energy Efficiency Board Consultants	\$512,001	\$128,000	\$53,333	\$53,333	\$53,333	\$800,000
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
Performance Management Incentive	\$7,300,622	\$1,650,539	\$1,110,323	\$772,836	\$685,984	\$11,520,304
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$14,912,099</b>	<b>\$4,211,500</b>	<b>\$1,914,180</b>	<b>\$2,042,147</b>	<b>\$1,921,298</b>	<b>\$25,001,225</b>
<b>TOTAL</b>	<b>\$154,169,297</b>	<b>\$34,884,377</b>	<b>\$23,409,733</b>	<b>\$16,322,487</b>	<b>\$14,498,605</b>	<b>\$243,284,500</b>

Table A – 2023 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2023 Eversource CT Electric Proposed Budget 11/1/2021	2023 UI Proposed Budget 11/1/2021	2023 Eversource CT Gas Proposed Budget 11/1/2021	2023 CNG Proposed Budget 11/1/2021	2023 SCG Proposed Budget 11/1/2021	2023 Statewide Combined Total 11/1/2021
<b>RESIDENTIAL</b>						
Residential Retail Products	\$4,158,000	\$761,503	\$ -	\$ -	\$ -	\$4,919,503
Residential New Construction	\$3,505,832	\$572,026	\$635,403	\$692,644	\$927,086	\$6,332,990
Home Energy Solutions	\$20,600,574	\$3,104,689	\$2,437,902	\$2,974,775	\$1,654,261	\$30,772,200
HVAC & Domestic Water Heating	\$13,428,670	\$1,887,190	\$4,641,653	\$1,865,615	\$3,021,171	\$24,844,299
HES Income Eligible	\$15,883,645	\$4,187,467	\$4,217,953	\$4,020,763	\$2,954,634	\$31,264,462
Residential Behavior	\$90,000	\$268,665	\$10,000	\$152,278	\$152,140	\$673,082
<b>Subtotal: Residential EE Portfolio</b>	<b>\$57,666,721</b>	<b>\$10,781,540</b>	<b>\$11,942,911</b>	<b>\$9,706,075</b>	<b>\$8,709,292</b>	<b>\$98,806,538</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$11,494,349	\$4,092,154	\$4,285,543	\$2,062,439	\$1,675,551	\$23,610,036
Energy Opportunities	\$32,403,888	\$7,324,816	\$3,912,565	\$1,172,502	\$1,099,050	\$45,912,820
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$3,101,155	\$1,107,049	\$727,122	\$679,680	\$491,797	\$6,106,803
Small Business	\$12,526,525	\$3,667,159	\$751,883	\$317,638	\$241,638	\$17,504,842
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$59,525,917</b>	<b>\$16,191,178</b>	<b>\$9,677,112</b>	<b>\$4,232,258</b>	<b>\$3,508,036</b>	<b>\$93,134,501</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Residential Demand Response	\$3,082,000	\$759,576	\$ -	\$108,119	\$163,650	\$4,113,344
C&I Demand Response	\$4,380,590	\$389,658	\$ -	\$144,501	\$157,376	\$5,072,124
<b>Subtotal: Load Management</b>	<b>\$7,462,590</b>	<b>\$1,149,233</b>	<b>\$ -</b>	<b>\$252,619</b>	<b>\$321,026</b>	<b>\$9,185,468</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education	\$736,000	\$184,000	\$76,667	\$76,667	\$76,667	\$1,150,000
Workforce Development	\$793,600	\$198,400	\$82,667	\$82,667	\$82,667	\$1,240,000
Community Outreach	\$768,000	\$192,000	\$80,000	\$80,000	\$80,000	\$1,200,000
Customer Engagement Initiative	\$400,000	\$80,000	\$70,000	\$50,000	\$50,000	\$650,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$2,697,600</b>	<b>\$654,400</b>	<b>\$309,333</b>	<b>\$289,333</b>	<b>\$289,333</b>	<b>\$4,240,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Residential Loan Program (includes ECLF and OBR)	\$2,500,000	\$150,799	\$84,523	\$86,292	\$86,292	\$2,907,906
C&I Financing Support	\$1,000,000	\$85,000	\$93,905	\$20,000	\$75,000	\$1,273,905
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
<b>Subtotal: Programs/Requirements</b>	<b>\$3,662,227</b>	<b>\$387,049</b>	<b>\$228,428</b>	<b>\$156,292</b>	<b>\$211,292</b>	<b>\$4,645,288</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$902,597	\$280,639	\$150,933	\$159,218	\$159,219	\$1,652,606
Marketing Plan	\$430,380	\$121,400	\$40,100	\$40,100	\$40,100	\$672,081
Planning	\$703,170	\$140,393	\$79,158	\$102,465	\$102,465	\$1,127,651
EM&V	\$2,880,000	\$720,000	\$300,000	\$300,000	\$300,000	\$4,500,000
Evaluation Administrator	\$284,232	\$71,057	\$29,607	\$29,607	\$29,607	\$444,110
Information Technology	\$1,839,097	\$666,164	\$140,726	\$274,589	\$263,590	\$3,184,165
Energy Efficiency Board Consultants	\$512,001	\$128,000	\$53,333	\$53,333	\$53,333	\$800,000
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
Performance Management Incentive	\$6,888,515	\$1,554,600	\$1,143,435	\$775,647	\$695,218	\$11,057,415
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$14,499,992</b>	<b>\$3,706,252</b>	<b>\$1,947,292</b>	<b>\$1,744,959</b>	<b>\$1,653,531</b>	<b>\$23,552,027</b>
<b>TOTAL</b>	<b>\$145,515,046</b>	<b>\$32,869,651</b>	<b>\$24,105,077</b>	<b>\$16,381,537</b>	<b>\$14,692,511</b>	<b>\$233,563,822</b>

Table A – 2024 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2024 Eversource CT Electric Proposed Budget 11/1/2021	2024 UI Proposed Budget 11/1/2021	2024 Eversource CT Gas Proposed Budget 11/1/2021	2024 CNG Proposed Budget 11/1/2021	2024 SCG Proposed Budget 11/1/2021	2024 Statewide Combined Total 11/1/2021
<b>RESIDENTIAL</b>						
Residential Retail Products	\$3,300,000	\$761,503	\$ -	\$ -	\$ -	\$4,061,503
Residential New Construction	\$3,398,786	\$550,424	\$635,403	\$696,740	\$938,626	\$6,219,979
Home Energy Solutions	\$20,630,532	\$2,928,056	\$2,853,980	\$2,992,367	\$1,674,853	\$31,079,789
HVAC & Domestic Water Heating	\$13,170,628	\$1,822,234	\$4,641,653	\$1,874,345	\$3,057,929	\$24,566,788
HES Income Eligible	\$15,312,025	\$4,048,900	\$4,217,953	\$4,044,542	\$2,991,413	\$30,614,832
Residential Behavior	\$90,000	\$247,172	\$10,000	\$153,178	\$154,034	\$654,384
<b>Subtotal: Residential EE Portfolio</b>	<b>\$55,901,971</b>	<b>\$10,358,289</b>	<b>\$12,358,989</b>	<b>\$9,761,173</b>	<b>\$8,816,855</b>	<b>\$97,197,275</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$10,622,972	\$3,966,855	\$4,285,543	\$2,074,000	\$1,696,408	\$22,645,779
Energy Opportunities	\$31,572,625	\$7,099,811	\$3,914,766	\$1,179,436	\$1,112,731	\$44,879,368
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$3,059,619	\$1,073,152	\$727,122	\$683,699	\$497,919	\$6,041,511
Small Business	\$12,039,216	\$3,603,264	\$751,883	\$319,516	\$244,646	\$16,958,524
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$57,294,432</b>	<b>\$15,743,082</b>	<b>\$9,679,313</b>	<b>\$4,256,651</b>	<b>\$3,551,704</b>	<b>\$90,525,182</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Residential Demand Response	\$3,536,100	\$906,070	\$ -	\$113,524	\$171,833	\$4,727,527
C&I Demand Response	\$4,512,008	\$456,897	\$ -	\$148,836	\$162,097	\$5,279,838
<b>Subtotal Load Management</b>	<b>\$8,048,108</b>	<b>\$1,362,967</b>	<b>\$ -</b>	<b>\$262,360</b>	<b>\$333,930</b>	<b>\$10,007,364</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education	\$736,000	\$184,000	\$76,667	\$76,667	\$76,667	\$1,150,000
Workforce Development	\$793,600	\$198,400	\$82,667	\$82,667	\$82,667	\$1,240,000
Community Outreach	\$768,000	\$192,000	\$80,000	\$80,000	\$80,000	\$1,200,000
Customer Engagement Initiative	\$400,000	\$80,000	\$70,000	\$50,000	\$50,000	\$650,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$2,697,600</b>	<b>\$654,400</b>	<b>\$309,333</b>	<b>\$289,333</b>	<b>\$289,333</b>	<b>\$4,240,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Residential Loan Program (includes ECLF and OBR)	\$2,500,000	\$150,799	\$84,523	\$86,292	\$86,292	\$2,907,906
C&I Financing Support	\$1,000,000	\$85,000	\$93,905	\$20,000	\$75,000	\$1,273,905
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
<b>Subtotal: Programs/Requirements</b>	<b>\$3,662,227</b>	<b>\$387,049</b>	<b>\$228,428</b>	<b>\$156,292</b>	<b>\$211,292</b>	<b>\$4,645,288</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$902,597	\$280,639	\$150,933	\$159,218	\$159,219	\$1,652,606
Marketing Plan	\$430,380	\$121,400	\$40,100	\$40,100	\$40,100	\$672,081
Planning	\$703,170	\$140,393	\$79,158	\$102,465	\$102,465	\$1,127,651
EM&V	\$2,880,000	\$720,000	\$300,000	\$300,000	\$300,000	\$4,500,000
Evaluation Administrator	\$284,232	\$71,057	\$29,607	\$29,607	\$29,607	\$444,110
Information Technology	\$1,839,097	\$458,164	\$140,726	\$250,589	\$241,590	\$2,930,165
Energy Efficiency Board Consultants	\$512,001	\$128,000	\$53,333	\$53,333	\$53,333	\$800,000
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
Performance Management Incentive	\$6,717,979	\$1,511,319	\$1,164,349	\$778,909	\$702,324	\$10,874,881
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$14,329,456</b>	<b>\$3,454,971</b>	<b>\$1,968,206</b>	<b>\$1,724,221</b>	<b>\$1,638,638</b>	<b>\$23,115,493</b>
<b>TOTAL</b>	<b>\$141,933,793</b>	<b>\$31,960,758</b>	<b>\$24,544,270</b>	<b>\$16,450,030</b>	<b>\$14,841,752</b>	<b>\$229,730,603</b>



Table B – Statewide Electric and Natural Gas Costs and Benefits (2022)

2022 Statewide	Costs (\$000) Electric			Costs (\$000) Gas			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test
<b>Residential</b>												
Retail Products	4,920	4,920	11,582	-	-	-	8,817	8,856	15,101	1.79	1.80	1.30
New Construction	4,364	4,409	9,717	2,208	2,208	4,324	16,900	19,652	30,096	2.57	2.97	2.14
Home Energy Solutions	12,177	25,324	27,821	6,723	6,723	6,850	19,405	68,500	99,457	1.03	2.14	2.87
HVAC & Domestic Water Heating	15,910	15,910	29,958	9,330	9,330	14,789	30,193	62,198	92,861	1.20	2.46	2.08
HES - Income Eligible	12,787	21,453	22,392	10,939	10,939	11,803	14,001	37,863	82,431	0.59	1.17	2.41
Behavior	382	382	382	305	305	305	1,139	1,139	1,922	1.66	1.66	2.80
<b>Subtotal: Residential</b>	<b>50,540</b>	<b>72,397</b>	<b>101,852</b>	<b>29,505</b>	<b>29,505</b>	<b>38,071</b>	<b>90,454</b>	<b>198,206</b>	<b>321,868</b>	<b>1.13</b>	<b>1.95</b>	<b>2.30</b>
<b>Commercial &amp; Industrial</b>												
Energy Conscious Blueprint	17,363	17,363	22,327	7,768	7,768	11,210	59,730	59,651	88,523	2.38	2.37	2.64
Energy Opportunities	43,151	43,151	78,083	5,977	5,977	10,602	76,241	75,907	112,280	1.55	1.55	1.27
BES	4,283	4,283	7,068	1,853	1,853	3,147	14,434	14,487	22,725	2.35	2.36	2.22
Small Business	17,344	17,344	32,730	1,279	1,279	2,334	33,084	32,995	46,948	1.78	1.77	1.34
<b>Subtotal: C&amp;I</b>	<b>82,142</b>	<b>82,142</b>	<b>140,208</b>	<b>16,876</b>	<b>16,876</b>	<b>27,292</b>	<b>183,489</b>	<b>183,040</b>	<b>270,476</b>	<b>1.85</b>	<b>1.85</b>	<b>1.61</b>
<b>Demand Response</b>												
Demand Response - Res	3,421	3,421	3,421	-	-	-	3,869	3,869	3,869	1.13	1.13	1.13
Demand Response - C&I	4,569	4,569	4,569	-	-	-	9,992	9,992	9,992	2.19	2.19	2.19
<b>Subtotal: Demand Response</b>	<b>7,990</b>	<b>7,990</b>	<b>7,990</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>13,861</b>	<b>13,861</b>	<b>13,861</b>	<b>1.73</b>	<b>1.73</b>	<b>1.73</b>
<b>Subtotal: Other</b>	<b>26,525</b>	<b>26,525</b>	<b>26,525</b>	<b>7,849</b>	<b>7,849</b>	<b>7,849</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>167,196</b>	<b>189,054</b>	<b>276,574</b>	<b>54,231</b>	<b>54,231</b>	<b>73,213</b>	<b>287,804</b>	<b>395,107</b>	<b>606,205</b>	<b>1.30</b>	<b>1.62</b>	<b>1.73</b>

2022 Statewide	Electric Quantities		Electric Savings			Gas Quantities		Gas Savings		
	No. of Elec Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (V/E)	No. of Gas Units	Units of Measure	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)
<b>Residential</b>										
Retail Products	523,362	Bulbs, Fixtures	13,952	72,406	2,126	-	-	-	-	-
New Construction	2,112	No. of Units	3,637	72,438	783	1,818	Homes	424,915	10,622,866	2,447
Home Energy Solutions	23,034	No. of Ptcps.	7,361	90,379	1,868	4,842	Homes	411,303	8,285,725	4,053
HVAC & Domestic Water Heating	70,145	No. of Ptcps.	7,479	118,144	2,150	23,894	Units	925,740	17,839,720	8,525
HES - Income Eligible	20,442	Customers	5,604	43,152	780	6,881	Homes	570,506	11,793,669	14,234
Behavior	165,000	Customers	2,955	5,195	82	54,086	Units	278,759	548,301	90
<b>Subtotal: Residential</b>	<b>-</b>	<b>-</b>	<b>40,987</b>	<b>401,713</b>	<b>7,789</b>	<b>-</b>	<b>-</b>	<b>2,611,222</b>	<b>49,090,281</b>	<b>29,349</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	299	Projects	31,847	446,893	5,965	974	Projects	812,344	12,841,590	7,246
Energy Opportunities	1,153	Projects	75,746	543,877	11,482	313	Projects	977,113	9,724,782	6,388
BES	274	Projects	11,332	85,706	2,066	51	Projects	713,358	4,548,912	5,803
Small Business	1,085	Projects	30,443	240,093	5,597	627	Projects	164,081	2,018,854	1,433
<b>Subtotal: C&amp;I</b>	<b>-</b>	<b>-</b>	<b>149,369</b>	<b>1,316,569</b>	<b>25,110</b>	<b>-</b>	<b>-</b>	<b>2,666,895</b>	<b>29,134,138</b>	<b>20,870</b>
<b>Demand Response</b>										
Demand Response - Res	29,504	No. of Ptcps.	-	-	17,839	-	-	-	-	-
Demand Response - C&I	334	New Ptcps.	-	-	74,008	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>91,846</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>190,356</b>	<b>1,718,282</b>	<b>124,745</b>	<b>-</b>	<b>-</b>	<b>5,278,118</b>	<b>78,224,419</b>	<b>50,219</b>

Table B – Statewide Electric and Natural Gas Costs and Benefits (2022) (continued)

2022 Statewide	Oil/Propane Savings				Annual MMBtu	Life Time MMBtu	Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)			Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>								
Retail Products	-66,726	-55,125	2,012	35,901	38,535	242,682	4,272	28,141
New Construction	-	-	33,259	831,486	59,170	1,416,191	4,812	113,214
Home Energy Solutions	671,191	13,865,916	65,744	1,396,994	166,531	3,211,625	15,681	299,701
HVAC & Domestic Water Heating	521,758	7,764,511	143,393	2,056,938	206,234	3,503,534	18,130	301,865
HES - Income Eligible	318,140	6,811,604	28,927	641,708	124,589	2,364,111	10,803	202,634
Behavior	-	-	-	-	38,767	74,145	3,197	6,051
<b>Subtotal: Residential</b>	<b>1,444,363</b>	<b>28,386,906</b>	<b>273,335</b>	<b>4,963,026</b>	<b>633,826</b>	<b>10,812,288</b>	<b>56,894</b>	<b>951,606</b>
<b>Commercial &amp; Industrial</b>								
Energy Conscious Blueprint	510	10,200	408	8,160	192,360	2,848,358	18,139	265,356
Energy Opportunities	2,028	20,280	1,775	17,745	359,433	2,860,821	35,712	276,959
BES	1,342	10,735	805	6,441	112,330	762,590	9,652	66,748
Small Business	720	12,960	954	17,172	120,944	1,030,304	12,668	105,724
<b>Subtotal: C&amp;I</b>	<b>4,600</b>	<b>54,175</b>	<b>3,942</b>	<b>49,518</b>	<b>785,067</b>	<b>7,502,072</b>	<b>76,172</b>	<b>714,787</b>
<b>Demand Response</b>								
Demand Response - Res	-	-	-	-	-	-	-	-
Demand Response - C&I	-	-	-	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>1,448,963</b>	<b>28,441,081</b>	<b>277,276</b>	<b>5,012,544</b>	<b>1,418,893</b>	<b>18,314,361</b>	<b>133,066</b>	<b>1,666,393</b>

Table B – Statewide Electric and Natural Gas Costs and Benefits (2023)

2023 Statewide	Costs (\$000) Electric			Costs (\$000) Gas			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test
<b>Residential</b>												
Retail Products	4,920	4,920	12,386	-	-	-	9,397	9,761	19,906	1.91	1.98	1.61
New Construction	4,032	4,078	8,868	2,255	2,255	4,423	16,308	18,876	29,292	2.59	2.98	2.20
Home Energy Solutions	10,991	23,705	26,042	7,067	7,067	7,067	18,846	64,738	94,219	1.04	2.10	2.85
HVAC & Domestic Water Heating	15,316	15,316	28,760	9,528	9,528	15,116	29,072	61,034	91,612	1.17	2.46	2.09
HES - Income Eligible	11,680	20,071	20,136	11,193	11,193	11,239	13,763	35,773	76,801	0.60	1.14	2.45
Behavior	359	359	359	314	314	314	1,144	1,144	1,916	1.70	1.70	2.85
<b>Subtotal: Residential</b>	<b>47,298</b>	<b>68,448</b>	<b>96,550</b>	<b>30,358</b>	<b>30,358</b>	<b>38,159</b>	<b>88,530</b>	<b>191,326</b>	<b>313,746</b>	<b>1.14</b>	<b>1.94</b>	<b>2.33</b>
<b>Commercial &amp; Industrial</b>												
Energy Conscious Blueprint	15,587	15,587	19,958	8,024	8,024	11,591	50,831	50,796	75,832	2.15	2.15	2.40
Energy Opportunities	39,729	39,729	70,955	6,184	6,184	10,996	67,755	67,500	100,100	1.48	1.47	1.22
BES	4,208	4,208	6,875	1,899	1,899	3,236	13,967	14,021	22,092	2.29	2.30	2.18
Small Business	16,194	16,194	30,084	1,311	1,311	2,404	29,748	29,692	42,140	1.70	1.70	1.30
<b>Subtotal: C&amp;I</b>	<b>75,717</b>	<b>75,717</b>	<b>127,872</b>	<b>17,417</b>	<b>17,417</b>	<b>28,227</b>	<b>162,300</b>	<b>162,009</b>	<b>240,164</b>	<b>1.74</b>	<b>1.74</b>	<b>1.54</b>
<b>Demand Response</b>												
Demand Response - Res	3,842	3,842	3,842	-	-	-	4,376	4,376	4,376	1.14	1.14	1.14
Demand Response - C&I	4,770	4,770	4,770	-	-	-	11,244	11,244	11,244	2.36	2.36	2.36
<b>Subtotal: Demand Response</b>	<b>8,612</b>	<b>8,612</b>	<b>8,612</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>15,621</b>	<b>15,621</b>	<b>15,620</b>	<b>1.81</b>	<b>1.81</b>	<b>1.81</b>
<b>Subtotal: Other</b>	<b>25,608</b>	<b>25,608</b>	<b>25,608</b>	<b>7,403</b>	<b>7,403</b>	<b>7,403</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>157,234</b>	<b>178,385</b>	<b>258,642</b>	<b>55,179</b>	<b>55,179</b>	<b>73,790</b>	<b>266,450</b>	<b>368,955</b>	<b>569,530</b>	<b>1.25</b>	<b>1.58</b>	<b>1.71</b>

2023 Statewide	Electric Quantities		Electric Savings			Gas Quantities		Gas Savings		
	No. of Elec Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	No. of Gas Units	Units of Measure	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)
<b>Residential</b>										
Retail Products	434,454	Bulbs, Fixtures	13,433	79,339	2,041	-	-	-	-	-
New Construction	1,907	No. of Units	3,313	65,523	709	1,866	Homes	434,065	10,851,635	2,483
Home Energy Solutions	22,863	No. of Ptcps.	6,137	82,708	1,551	5,253	Homes	437,028	8,810,095	5,587
HVAC & Domestic Water Heating	67,210	No. of Ptcps.	7,183	113,474	2,063	24,352	Units	946,331	18,242,200	8,714
HES - Income Eligible	18,767	Customers	4,970	38,386	799	7,264	Homes	576,562	11,967,081	14,488
Behavior	163,250	Customers	2,843	4,971	82	52,482	Units	280,096	550,973	90
<b>Subtotal: Residential</b>	<b>-</b>	<b>-</b>	<b>37,879</b>	<b>384,401</b>	<b>7,244</b>	<b>-</b>	<b>-</b>	<b>2,674,082</b>	<b>50,421,984</b>	<b>31,363</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	261	Projects	25,931	364,271	5,130	1,014	Projects	829,669	13,086,546	7,429
Energy Opportunities	1,038	Projects	67,011	481,983	10,199	343	Projects	1,008,606	10,041,907	6,572
BES	248	Projects	10,910	82,523	1,973	53	Projects	727,436	4,636,169	5,900
Small Business	1,023	Projects	27,555	217,032	5,073	643	Projects	167,819	2,065,812	1,467
<b>Subtotal: C&amp;I</b>	<b>-</b>	<b>-</b>	<b>131,406</b>	<b>1,145,809</b>	<b>22,375</b>	<b>-</b>	<b>-</b>	<b>2,733,531</b>	<b>29,830,434</b>	<b>21,368</b>
<b>Demand Response</b>										
Demand Response - Res	33,063	No. of Ptcps.	-	-	20,109	-	-	-	-	-
Demand Response - C&I	373	New Ptcps.	-	-	81,208	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>101,317</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>169,284</b>	<b>1,530,210</b>	<b>130,935</b>	<b>-</b>	<b>-</b>	<b>5,407,612</b>	<b>80,252,418</b>	<b>52,731</b>

Table B – Statewide Electric and Natural Gas Costs and Benefits (2023) (continued)

2023 Statewide	Oil/Propane Savings				Annual MMBtu	Life Time MMBtu	Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)			Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>								
Retail Products	-26,058	31,206	2,566	39,303	42,455	278,621	4,822	32,559
New Construction	-	-	30,140	753,497	58,721	1,409,016	4,730	111,616
Home Energy Solutions	614,718	12,558,505	57,487	1,207,411	156,414	3,040,769	14,535	280,854
HVAC & Domestic Water Heating	501,072	7,456,654	137,723	1,975,596	203,958	3,478,892	17,835	298,117
HES - Income Eligible	283,944	6,060,495	26,017	573,997	118,042	2,255,338	10,114	191,129
Behavior	-	-	-	-	38,522	73,656	3,164	5,985
<b>Subtotal: Residential</b>	<b>1,373,677</b>	<b>26,106,861</b>	<b>253,933</b>	<b>4,549,804</b>	<b>618,112</b>	<b>10,536,292</b>	<b>55,200</b>	<b>920,260</b>
<b>Commercial &amp; Industrial</b>								
Energy Conscious Blueprint	612	12,240	510	10,200	173,980	2,592,128	16,022	235,807
Energy Opportunities	2,434	24,336	2,180	21,801	332,962	2,683,203	32,671	256,098
BES	1,322	10,578	793	6,347	112,332	760,678	9,594	66,170
Small Business	792	14,256	1,108	19,946	111,497	956,884	11,612	97,417
<b>Subtotal: C&amp;I</b>	<b>5,160</b>	<b>61,410</b>	<b>4,592</b>	<b>58,293</b>	<b>730,771</b>	<b>6,992,893</b>	<b>69,899</b>	<b>655,492</b>
<b>Demand Response</b>								
Demand Response - Res	-	-	-	-	-	-	-	-
Demand Response - C&I	-	-	-	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>1,378,837</b>	<b>26,168,270</b>	<b>258,524</b>	<b>4,608,097</b>	<b>1,348,883</b>	<b>17,529,184</b>	<b>125,098</b>	<b>1,575,752</b>

Table B – Statewide Electric and Natural Gas Costs and Benefits (2024)

2024 Statewide	Costs (\$000) Electric			Costs (\$000) Gas			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Mod. Utility Cost Test	Total Resource Cost Test
<b>Residential</b>												
Retail Products	4,062	4,062	9,925	-	-	-	6,990	7,343	15,709	1.72	1.81	1.58
New Construction	3,904	3,949	9,243	2,271	2,271	4,455	16,094	18,613	29,044	2.61	2.99	2.12
Home Energy Solutions	10,937	23,559	25,879	7,521	7,521	7,521	18,886	66,157	95,233	1.02	2.13	2.85
HVAC & Domestic Water Heating	14,993	14,993	28,212	9,574	9,574	15,189	28,627	61,050	91,634	1.17	2.49	2.11
HES - Income Eligible	11,051	19,361	20,244	11,254	11,254	12,128	13,207	34,701	74,940	0.59	1.13	2.31
Behavior	337	337	337	317	317	317	1,068	1,068	1,787	1.63	1.63	2.73
<b>Subtotal: Residential</b>	<b>45,284</b>	<b>66,260</b>	<b>93,839</b>	<b>30,937</b>	<b>30,937</b>	<b>39,610</b>	<b>84,871</b>	<b>188,932</b>	<b>308,347</b>	<b>1.11</b>	<b>1.94</b>	<b>2.31</b>
<b>Commercial &amp; Industrial</b>												
Energy Conscious Blueprint	14,590	14,590	18,742	8,056	8,056	11,655	46,631	46,630	69,373	2.06	2.06	2.28
Energy Opportunities	38,672	38,672	68,717	6,207	6,207	11,020	64,276	64,070	94,606	1.43	1.43	1.19
BES	4,133	4,133	6,718	1,909	1,909	3,254	13,175	13,221	20,893	2.18	2.19	2.10
Small Business	15,642	15,642	28,905	1,316	1,316	2,414	27,349	27,317	38,428	1.61	1.61	1.23
<b>Subtotal: C&amp;I</b>	<b>73,038</b>	<b>73,038</b>	<b>123,083</b>	<b>17,488</b>	<b>17,488</b>	<b>28,343</b>	<b>151,430</b>	<b>151,238</b>	<b>223,299</b>	<b>1.67</b>	<b>1.67</b>	<b>1.47</b>
<b>Demand Response</b>												
Demand Response - Res	4,442	4,442	4,442	-	-	-	4,998	4,998	4,997	1.13	1.13	1.12
Demand Response - C&I	4,969	4,969	4,969	-	-	-	12,762	12,762	12,762	2.57	2.57	2.57
<b>Subtotal: Demand Response</b>	<b>9,411</b>	<b>9,411</b>	<b>9,411</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>17,760</b>	<b>17,760</b>	<b>17,759</b>	<b>1.89</b>	<b>1.89</b>	<b>1.89</b>
<b>Subtotal: Other</b>	<b>25,186</b>	<b>25,186</b>	<b>25,186</b>	<b>7,411</b>	<b>7,411</b>	<b>7,411</b>						
<b>TOTAL</b>	<b>152,918</b>	<b>173,895</b>	<b>251,519</b>	<b>55,836</b>	<b>55,836</b>	<b>75,365</b>	<b>254,061</b>	<b>357,930</b>	<b>549,406</b>	<b>1.22</b>	<b>1.56</b>	<b>1.68</b>

2024 Statewide	Electric Quantities		Electric Savings			Gas Quantities		Gas Savings		
	No. of Elec Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	No. of Gas Units	Units of Measure	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)
<b>Residential</b>										
Retail Products	268,544	Bulbs, Fixtures	9,225	60,639	1,505	-	-	0	0	0
New Construction	1,842	No. of Units	3,178	62,646	687	1,882	Homes	437,295	10,932,386	2,497
Home Energy Solutions	22,870	No. of Ptcps.	6,168	82,098	1,645	5,896	Homes	466,715	9,401,597	5,888
HVAC & Domestic Water Heating	66,021	No. of Ptcps.	7,043	111,259	2,008	24,418	Units	950,450	18,324,684	8,751
HES - Income Eligible	17,466	Customers	4,441	35,074	671	7,516	Homes	569,597	11,874,620	14,470
Behavior	161,587	Customers	2,737	4,758	82	50,958	Units	267,945	526,672	90
<b>Subtotal: Residential</b>	<b>-</b>	<b>-</b>	<b>32,791</b>	<b>356,475</b>	<b>6,598</b>	<b>-</b>	<b>-</b>	<b>2,692,003</b>	<b>51,059,959</b>	<b>31,697</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	243	Projects	23,132	325,905	4,926	1,026	Projects	817,213	12,888,190	7,373
Energy Opportunities	1,002	Projects	64,275	462,746	9,799	343	Projects	1,001,281	9,969,524	6,521
BES	245	Projects	10,333	78,072	1,841	53	Projects	722,860	4,606,704	5,853
Small Business	977	Projects	25,333	200,528	4,827	642	Projects	166,515	2,049,717	1,456
<b>Subtotal: C&amp;I</b>	<b>-</b>	<b>-</b>	<b>123,073</b>	<b>1,067,251</b>	<b>21,393</b>	<b>-</b>	<b>-</b>	<b>2,707,869</b>	<b>29,514,134</b>	<b>21,203</b>
<b>Demand Response</b>										
Demand Response - Res	36,930	No. of Ptcps.	-	-	22,568	-	-	-	-	-
Demand Response - C&I	413	New Ptcps.	-	-	88,841	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>111,409</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>-</b>	<b>-</b>	<b>155,864</b>	<b>1,423,726</b>	<b>139,400</b>	<b>-</b>	<b>-</b>	<b>5,399,871</b>	<b>80,574,093</b>	<b>52,899</b>

Table B – Statewide Electric and Natural Gas Costs and Benefits (2024) (continued)

2024 Statewide	Oil/Propane Savings				Annual MMBtu	Life Time MMBtu	Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)			Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>								
Retail Products	-15,393	33,493	3,180	38,237	29,632	215,038	3,379	25,155
New Construction	-	-	28,773	719,326	58,470	1,404,387	4,691	110,830
Home Energy Solutions	613,119	12,520,598	57,400	1,205,599	159,345	3,094,133	14,747	284,478
HVAC & Domestic Water Heating	491,338	7,311,812	135,036	1,937,059	202,308	3,456,213	17,655	295,553
HES - Income Eligible	268,886	5,720,817	25,146	551,595	113,352	2,185,369	9,641	184,317
Behavior	-	-	-	-	36,909	70,429	3,033	5,723
<b>Subtotal: Residential</b>	<b>1,357,950</b>	<b>25,586,721</b>	<b>249,536</b>	<b>4,451,816</b>	<b>600,015</b>	<b>10,425,570</b>	<b>53,146</b>	<b>906,057</b>
<b>Commercial &amp; Industrial</b>								
Energy Conscious Blueprint	714	14,280	612	12,240	163,172	2,441,282	14,872	219,856
Energy Opportunities	2,839	28,392	2,586	25,857	322,970	2,611,051	31,599	248,416
BES	967	7,738	775	6,199	109,843	742,051	9,334	64,204
Small Business	862	15,509	1,106	19,909	103,790	899,085	10,773	91,135
<b>Subtotal: C&amp;I</b>	<b>5,382</b>	<b>65,919</b>	<b>5,079</b>	<b>64,206</b>	<b>699,775</b>	<b>6,693,470</b>	<b>66,578</b>	<b>623,611</b>
<b>Demand Response</b>								
Demand Response - Res	-	-	-	-	-	-	-	-
Demand Response - C&I	-	-	-	-	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>1,363,332</b>	<b>25,652,640</b>	<b>254,614</b>	<b>4,516,022</b>	<b>1,299,790</b>	<b>17,119,039</b>	<b>119,724</b>	<b>1,529,669</b>

**E.2 STATEWIDE ELECTRIC TABLES**

Combined Electric Table A1 (2022)

Eversource CT Electric/UI EE BUDGET	2022 Eversource CT Electric Proposed Budget 11/01/21	2022 UI Proposed Budget 11/01/21	2022 Eversource CT Electric/UI Combined Total 11/01/21
<b>RESIDENTIAL</b>			
Residential Retail Products	\$ 4,158,000	\$ 761,503	\$ 4,919,503
Residential New Construction	\$ 3,786,389	\$ 622,961	\$ 4,409,350
Home Energy Solutions	\$ 21,961,743	\$ 3,361,814	\$ 25,323,557
HVAC & Domestic Water Heating	\$ 13,864,673	\$ 2,045,313	\$ 15,909,986
HES-Income Eligible	\$ 16,944,360	\$ 4,508,473	\$ 21,452,833
Residential Behavior	\$ 90,000	\$ 292,027	\$ 382,027
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 60,805,165</b>	<b>\$ 11,592,091</b>	<b>\$ 72,397,255</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>			
Energy Conscious Blueprint	\$ 13,013,265	\$ 4,349,702	\$ 17,362,967
Energy Opportunities	\$ 35,333,451	\$ 7,817,861	\$ 43,151,312
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 3,125,966	\$ 1,157,504	\$ 4,283,470
Small Business	\$ 13,526,525	\$ 3,817,481	\$ 17,344,006
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 64,999,207</b>	<b>\$ 17,142,548</b>	<b>\$ 82,141,755</b>
<b>OTHER - LOAD MANAGEMENT</b>			
Residential Demand Response	\$ 2,840,000	\$ 580,814	\$ 3,420,814
C&I Demand Response	\$ 4,253,000	\$ 315,975	\$ 4,568,975
<b>Subtotal: Load Management</b>	<b>\$ 7,093,000</b>	<b>\$ 896,789</b>	<b>\$ 7,989,789</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	\$ 736,000	\$ 184,000	\$ 920,000
Workforce Development	\$ 793,600	\$ 198,400	\$ 992,000
Community Outreach	\$ 768,000	\$ 192,000	\$ 960,000
Customer Engagement Initiative	\$ 400,000	\$ 80,000	\$ 480,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 2,697,600</b>	<b>\$ 654,400</b>	<b>\$ 3,352,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program (includes ECLF and OBR)	\$ 2,500,000	\$ 150,799	\$ 2,650,799
C&I Financing Support	\$ 1,000,000	\$ 85,000	\$ 1,085,000
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
<b>Subtotal: Programs/Requirements</b>	<b>\$ 3,662,227</b>	<b>\$ 387,049</b>	<b>\$ 4,049,276</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	\$ 902,597	\$ 187,520	\$ 1,090,117
Marketing Plan	\$ 430,380	\$ 121,400	\$ 551,780
Planning	\$ 703,170	\$ 173,820	\$ 876,990
Evaluation Measurement and Verification	\$ 2,880,000	\$ 720,000	\$ 3,600,000
Evaluation Administrator	\$ 284,232	\$ 71,057	\$ 355,289
Information Technology	\$ 1,839,097	\$ 1,135,164	\$ 2,974,261
Energy Efficiency Board Consultants	\$ 512,001	\$ 128,000	\$ 640,001
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 7,300,622	\$ 1,650,539	\$ 8,951,161
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 14,912,099</b>	<b>\$ 4,211,500</b>	<b>\$ 19,123,599</b>
<b>TOTAL</b>	<b>\$ 154,169,297</b>	<b>\$ 34,884,377</b>	<b>\$ 189,053,674</b>

Combined Electric Table A1 (2023)

Eversource CT Electric/UI EE BUDGET	2023 Eversource CT Electric Proposed Budget 11/01/21	2023 UI Proposed Budget 11/01/21	2023 Eversource CT Electric/UI Combined Total 11/01/21
<b>RESIDENTIAL</b>			
Residential Retail Products	\$ 4,158,000	\$ 761,503	\$ 4,919,503
Residential New Construction	\$ 3,505,832	\$ 572,026	\$ 4,077,858
Home Energy Solutions	\$ 20,600,574	\$ 3,104,689	\$ 23,705,262
HVAC & Domestic Water Heating	\$ 13,428,670	\$ 1,887,190	\$ 15,315,860
HES-Income Eligible	\$ 15,883,645	\$ 4,187,467	\$ 20,071,112
Residential Behavior	\$ 90,000	\$ 268,665	\$ 358,665
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 57,666,721</b>	<b>\$ 10,781,540</b>	<b>\$ 68,448,260</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>			
Energy Conscious Blueprint	\$ 11,494,349	\$ 4,092,154	\$ 15,586,504
Energy Opportunities	\$ 32,403,888	\$ 7,324,816	\$ 39,728,703
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 3,101,155	\$ 1,107,049	\$ 4,208,204
Small Business	\$ 12,526,525	\$ 3,667,159	\$ 16,193,683
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 59,525,917</b>	<b>\$ 16,191,178</b>	<b>\$ 75,717,094</b>
<b>OTHER - LOAD MANAGEMENT</b>			
Residential Demand Response	\$ 3,082,000	\$ 759,576	\$ 3,841,576
C&I Demand Response	\$ 4,380,590	\$ 389,658	\$ 4,770,248
<b>Subtotal: Load Management</b>	<b>\$ 7,462,590</b>	<b>\$ 1,149,233</b>	<b>\$ 8,611,823</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	\$ 736,000	\$ 184,000	\$ 920,000
Workforce Development	\$ 793,600	\$ 198,400	\$ 992,000
Community Outreach	\$ 768,000	\$ 192,000	\$ 960,000
Customer Engagement Initiative	\$ 400,000	\$ 80,000	\$ 480,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 2,697,600</b>	<b>\$ 654,400</b>	<b>\$ 3,352,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program (includes ECLF and OBR)	\$ 2,500,000	\$ 150,799	\$ 2,650,799
C&I Financing Support	\$ 1,000,000	\$ 85,000	\$ 1,085,000
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
<b>Subtotal: Programs/Requirements</b>	<b>\$ 3,662,227</b>	<b>\$ 387,049</b>	<b>\$ 4,049,276</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	\$ 902,597	\$ 280,639	\$ 1,183,236
Marketing Plan	\$ 430,380	\$ 121,400	\$ 551,780
Planning	\$ 703,170	\$ 140,393	\$ 843,563
Evaluation Measurement and Verification	\$ 2,880,000	\$ 720,000	\$ 3,600,000
Evaluation Administrator	\$ 284,232	\$ 71,057	\$ 355,289
Information Technology	\$ 1,839,097	\$ 666,164	\$ 2,505,261
Energy Efficiency Board Consultants	\$ 512,001	\$ 128,000	\$ 640,001
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 6,888,515	\$ 1,554,600	\$ 8,443,115
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 14,499,992</b>	<b>\$ 3,706,252</b>	<b>\$ 18,206,244</b>
<b>TOTAL</b>	<b>\$ 145,515,046</b>	<b>\$ 32,869,651</b>	<b>\$ 178,384,698</b>



Combined Electric Table A1 (2024)

Eversource CT Electric/UI EE BUDGET	2024 Eversource CT Electric Proposed Budget 11/01/21	2024 UI Proposed Budget 11/01/21	2024 Eversource CT Electric/UI Combined Total 11/01/21
<b>RESIDENTIAL</b>			
Residential Retail Products	\$ 3,300,000	\$ 761,503	\$ 4,061,503
Residential New Construction	\$ 3,398,786	\$ 550,424	\$ 3,949,210
Home Energy Solutions	\$ 20,630,532	\$ 2,928,056	\$ 23,558,588
HVAC & Domestic Water Heating	\$ 13,170,628	\$ 1,822,234	\$ 14,992,862
HES-Income Eligible	\$ 15,312,025	\$ 4,048,900	\$ 19,360,925
Residential Behavior	\$ 90,000	\$ 247,172	\$ 337,172
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 55,901,971</b>	<b>\$ 10,358,289</b>	<b>\$ 66,260,259</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>			
Energy Conscious Blueprint	\$ 10,622,972	\$ 3,966,855	\$ 14,589,828
Energy Opportunities	\$ 31,572,625	\$ 7,099,811	\$ 38,672,435
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 3,059,619	\$ 1,073,152	\$ 4,132,771
Small Business	\$ 12,039,216	\$ 3,603,264	\$ 15,642,480
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 57,294,432</b>	<b>\$ 15,743,082</b>	<b>\$ 73,037,514</b>
<b>OTHER - LOAD MANAGEMENT</b>			
Residential Demand Response	\$ 3,536,100	\$ 906,070	\$ 4,442,170
C&I Demand Response	\$ 4,512,008	\$ 456,897	\$ 4,968,905
<b>Subtotal: Load Management</b>	<b>\$ 8,048,108</b>	<b>\$ 1,362,967</b>	<b>\$ 9,411,075</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	\$ 736,000	\$ 184,000	\$ 920,000
Workforce Development	\$ 793,600	\$ 198,400	\$ 992,000
Community Outreach	\$ 768,000	\$ 192,000	\$ 960,000
Customer Engagement Initiative	\$ 400,000	\$ 80,000	\$ 480,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 2,697,600</b>	<b>\$ 654,400</b>	<b>\$ 3,352,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program (Includes ECLF and OBR)	\$ 2,500,000	\$ 150,799	\$ 2,650,799
C&I Financing Support	\$ 1,000,000	\$ 85,000	\$ 1,085,000
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
<b>Subtotal: Programs/Requirements</b>	<b>\$ 3,662,227</b>	<b>\$ 387,049</b>	<b>\$ 4,049,276</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	\$ 902,597	\$ 280,639	\$ 1,183,236
Marketing Plan	\$ 430,380	\$ 121,400	\$ 551,780
Planning	\$ 703,170	\$ 140,393	\$ 843,563
Evaluation Measurement and Verification	\$ 2,880,000	\$ 720,000	\$ 3,600,000
Evaluation Administrator	\$ 284,232	\$ 71,057	\$ 355,289
Information Technology	\$ 1,839,097	\$ 458,164	\$ 2,297,261
Energy Efficiency Board Consultants	\$ 512,001	\$ 128,000	\$ 640,001
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 6,717,979	\$ 1,511,319	\$ 8,229,298
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 14,329,456</b>	<b>\$ 3,454,971</b>	<b>\$ 17,784,427</b>
<b>TOTAL</b>	<b>\$ 141,933,793</b>	<b>\$ 31,960,758</b>	<b>\$ 173,894,551</b>

## Combined Electric Table A2 (2021-2024)

**Table A2**  
**2021 - 2024**  
**Eversource CT Electric/UI EE Revenues**

ES CT Electric/UI EE REVENUES	2021 Eversource CT Electric Revenues 03/01/2021	2021 UI Revenues 03/01/2021	2021 Eversource CT Electric/UI Total 03/01/2021	2022 Eversource CT Electric Revenues 11/01/2021	2022 UI Revenues 11/01/2021	2022 Eversource CT Electric/UI Total 11/01/2021
ISO-NE Forward Capacity Market Revenues**	\$ 27,207,761	\$ 5,769,761	\$ 32,977,522	\$ 24,637,290	\$ 4,918,613	\$ 29,555,903
RGGI*	\$ 10,591,031	\$ 2,647,758	\$ 13,238,789	\$ 13,914,221	\$ 3,478,555	\$ 17,392,776
CAM (Net of Gross Receipts Tax)	\$ 96,098,791	\$ 21,109,835	\$ 117,208,626	\$ 115,617,786	\$ 26,487,209	\$142,104,995
Prior Period Over/(Under) Collections	\$ 5,663,346	\$ 510,211	\$ 6,173,557	\$ -	\$ -	\$ -
Prior Period Under/(Over) Budget	\$ 21,680,096	\$ 6,173,825	\$ 27,853,921	\$ -	\$ -	\$ -
Interest Due to Company/ Other Revenues	\$ -	\$ 754,781	\$ 754,781	\$ -	\$ -	\$ -
<b>Total: EE Revenues</b>	<b>\$ 161,241,025</b>	<b>\$ 36,966,170</b>	<b>\$ 198,207,195</b>	<b>\$ 154,169,297</b>	<b>\$ 34,884,377</b>	<b>\$189,053,674</b>

ES CT Electric/UI EE REVENUES	2023 Eversource CT Electric Revenues 03/01/2021	2023 UI Revenues 03/01/2021	2023 Eversource CT Electric/UI Total 03/01/2021	2024 Eversource CT Electric Revenues 11/01/2021	2024 UI Revenues 11/01/2021	2024 Eversource CT Electric/UI Total 11/01/2021
ISO-NE Forward Capacity Market Revenues**	\$ 16,091,200	\$ 3,166,813	\$ 19,258,013	\$ 12,699,130	\$ 2,685,762	\$ 15,384,892
RGGI*	\$ 14,050,435	\$ 3,512,609	\$ 17,563,044	\$ 13,504,570	\$ 3,376,143	\$ 16,880,713
CAM (Net of Gross Receipts Tax)	\$ 115,373,411	\$ 26,190,229	\$ 141,563,640	\$ 115,730,093	\$ 25,898,853	\$ 141,628,946
<b>Total: EE Revenues</b>	<b>\$ 145,515,046</b>	<b>\$ 32,869,651</b>	<b>\$ 178,384,697</b>	<b>\$ 141,933,793</b>	<b>\$ 31,960,758</b>	<b>\$ 173,894,551</b>

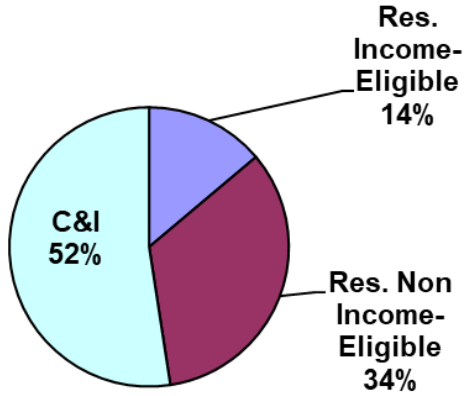
\*RGGI Budget is based on calculation by the Companies and DEEP.

\*\*The EE FCM Payment Rates are: FCA-11-\$5.30/kW-month, FCA-12-\$4.63/kW-month, FCA-13-\$3.80/kW-month, FCA-14-\$2.00/kW-month and FCA-15-\$2.61/kW-month.

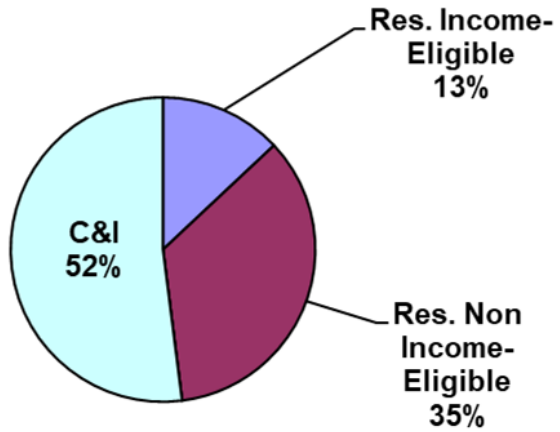
Combined Electric Table Pie Chart (2022)

Statewide (ES CT Electric and UI)  
2022 EE Budget and Parity Analysis  
Table A1 Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$23,592,138	12%	14%	13%	1%
Res. Non Income-Eligible	\$57,352,075	30%	34%	35%	-1%
<b>Residential Subtotal</b>	<b>\$80,944,213</b>	<b>43%</b>	<b>48%</b>	<b>48%</b>	<b>0%</b>
C&I	\$ 89,224,166	47%	52%	52%	0%
<b>C&amp;I Subtotal</b>	<b>\$ 89,224,166</b>	<b>47%</b>	<b>52%</b>	<b>52%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$ 170,168,379</b>	<b>90%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$ 18,885,296	10%			
<b>Other Expenditures Subtotal</b>	<b>\$ 18,885,296</b>	<b>10%</b>			
<b>Energy Efficiency Total</b>	<b>\$189,053,674</b>	<b>100%</b>			
<b>Eversource CT Electric</b>	<b>\$ 154,169,297</b>	<b>82%</b>			
<b>UI</b>	<b>\$ 34,884,377</b>	<b>18%</b>			

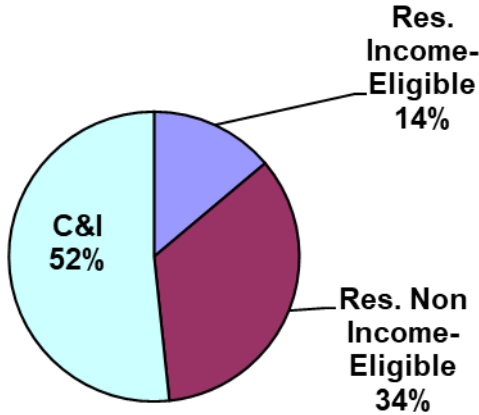
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

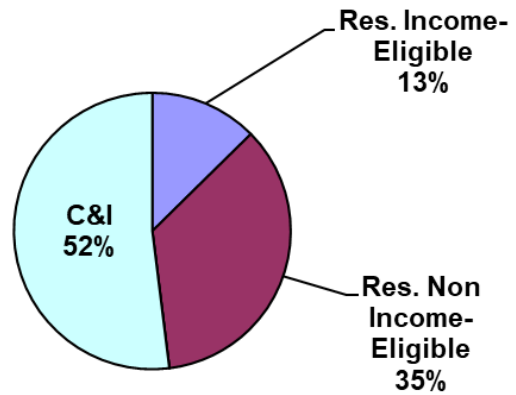
Combined Electric Table Pie Chart (2023)

Statewide (ES CT Electric and UI)  
2023 EE Budget and Parity Analysis  
Table A1 Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$22,234,920	12%	14%	13%	1%
Res. Non Income-Eligible	\$55,281,059	31%	34%	35%	-1%
<b>Residential Subtotal</b>	<b>\$77,515,979</b>	<b>43%</b>	<b>48%</b>	<b>48%</b>	<b>0%</b>
C&I	\$82,900,778	46%	52%	52%	0%
<b>C&amp;I Subtotal</b>	<b>\$82,900,778</b>	<b>46%</b>	<b>52%</b>	<b>52%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$160,416,757</b>	<b>90%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$17,967,941	10%			
<b>Other Expenditures Subtotal</b>	<b>\$17,967,941</b>	<b>10%</b>			
<b>Energy Efficiency Total</b>	<b>\$178,384,698</b>	<b>100%</b>			
<b>Eversource CT Electric</b>	<b>\$145,515,046</b>	<b>82%</b>			
<b>UI</b>	<b>\$32,869,651</b>	<b>18%</b>			

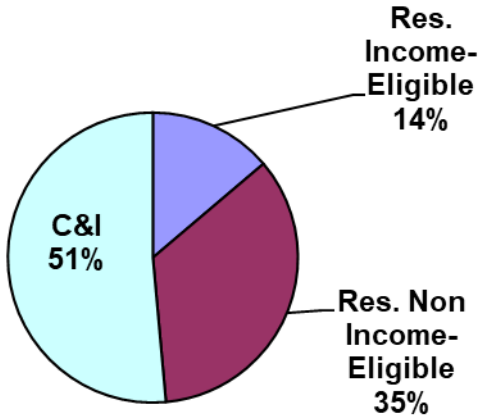
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

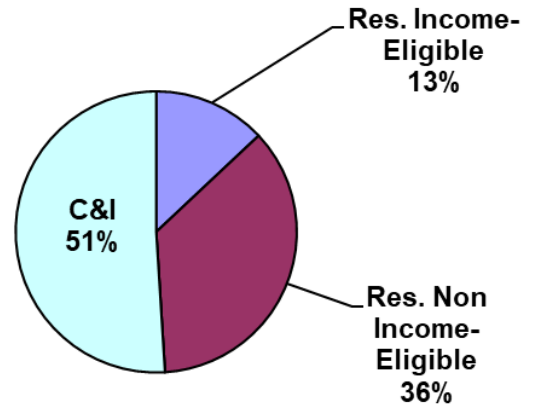
Combined Electric Table Pie Chart (2024)

Statewide (ES CT Electric and UI)  
2024 EE Budget and Parity Analysis  
Table A1 Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$21,585,760	12%	14%	13%	1%
Res. Non Income-Eligible	\$54,342,812	31%	35%	36%	-1%
<b>Residential Subtotal</b>	<b>\$75,928,572</b>	<b>44%</b>	<b>49%</b>	<b>49%</b>	<b>0%</b>
C&I	\$80,419,854	46%	51%	51%	0%
<b>C&amp;I Subtotal</b>	<b>\$80,419,854</b>	<b>46%</b>	<b>51%</b>	<b>51%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$156,348,427</b>	<b>90%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$17,546,124	10%			
<b>Other Expenditures Subtotal</b>	<b>\$17,546,124</b>	<b>10%</b>			
<b>Energy Efficiency Total</b>	<b>\$173,894,551</b>	<b>100%</b>			
<b>Eversource CT Electric</b>	<b>\$141,933,793</b>	<b>82%</b>			
<b>UI</b>	<b>\$31,960,758</b>	<b>18%</b>			

Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

### E.3 EVERSOURCE ELECTRIC TABLES

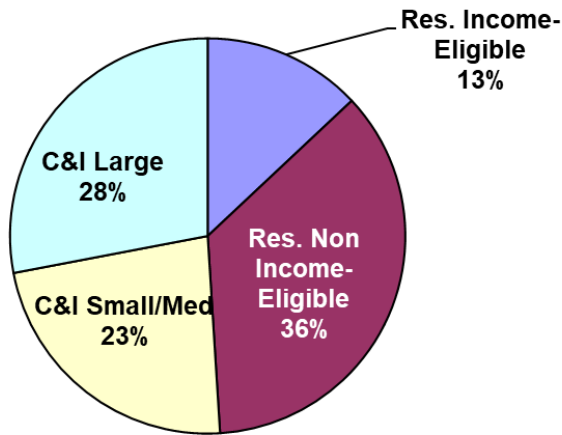
#### Eversource Electric Table A1 (2020-2024)

EVERSOURCE CT ELECTRIC EE BUDGET	2020 ES CT Electric Actual Results 12/31/20	2021 ES CT Electric Proposed Budget 03/01/21	2022 ES CT Electric Proposed Budget 11/01/21	2023 ES CT Electric Proposed Budget 11/01/21	2024 ES CT Electric Proposed Budget 11/01/21
<b>RESIDENTIAL</b>					
Residential Retail Products	\$ 11,189,455	\$ 6,802,282	\$ 4,158,000	\$ 4,158,000	\$ 3,300,000
Residential New Construction	\$ 2,717,016	\$ 3,018,874	\$ 3,786,389	\$ 3,505,832	\$ 3,398,786
Home Energy Solutions	\$ 20,042,758	\$ 20,990,119	\$ 21,961,743	\$ 20,600,574	\$ 20,630,532
HVAC & Domestic Water Heating	\$ 9,702,175	\$ 7,924,546	\$ 13,864,673	\$ 13,428,670	\$ 13,170,628
HES-Income Eligible	\$ 14,316,611	\$ 17,365,588	\$ 16,944,360	\$ 15,883,645	\$ 15,312,025
Residential Behavior	\$ -	\$ -	\$ 90,000	\$ 90,000	\$ 90,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 57,968,014</b>	<b>\$ 56,101,409</b>	<b>\$ 60,805,165</b>	<b>\$ 57,666,721</b>	<b>\$ 55,901,971</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>					
Energy Conscious Blueprint	\$12,436,628	\$ 13,118,589	\$ 13,013,265	\$ 11,494,349	\$ 10,622,972
Energy Opportunities	\$45,020,584	\$ 40,299,431	\$ 35,333,451	\$ 32,403,888	\$ 31,572,625
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$969,960	\$ 3,763,514	\$ 3,125,966	\$ 3,101,155	\$ 3,059,619
Small Business	\$5,382,744	\$ 17,271,596	\$ 13,526,525	\$ 12,526,525	\$ 12,039,216
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$63,809,916</b>	<b>\$ 74,453,130</b>	<b>\$ 64,999,207</b>	<b>\$ 59,525,917</b>	<b>\$ 57,294,432</b>
<b>OTHER - LOAD MANAGEMENT</b>					
Residential Demand Response	\$ 1,867,994	\$ 4,800,000	\$ 2,840,000	\$ 3,082,000	\$ 3,536,100
C&I Demand Response	\$ 2,470,465	\$ 5,100,000	\$ 4,253,000	\$ 4,380,590	\$ 4,512,008
<b>Subtotal: Load Management</b>	<b>\$ 4,338,460</b>	<b>\$ 9,900,000</b>	<b>\$ 7,093,000</b>	<b>\$ 7,462,590</b>	<b>\$ 8,048,108</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>					
Energy Education	\$ 250,732	\$ 412,236	\$ 736,000	\$ 736,000	\$ 736,000
Workforce Development	\$ 363,120	\$ 790,423	\$ 793,600	\$ 793,600	\$ 793,600
Community Outreach	\$ 385,116	\$ 956,574	\$ 768,000	\$ 768,000	\$ 768,000
Customer Engagement Initiative	\$ 1,330,909	\$ 1,668,000	\$ 400,000	\$ 400,000	\$ 400,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 2,329,876</b>	<b>\$ 3,827,233</b>	<b>\$ 2,697,600</b>	<b>\$ 2,697,600</b>	<b>\$ 2,697,600</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>					
Residential Loan Program (Includes ECLF and OBR)	\$ 2,746,178	\$ 900,072	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000
C&I Financing Support	\$ 3,103,714	\$ 2,501,339	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Research, Development & Demonstration	\$ 136,027	\$ 162,227	\$ 162,227	\$ 162,227	\$ 162,227
<b>Subtotal: Programs/Requirements</b>	<b>\$ 5,985,919</b>	<b>\$ 3,563,638</b>	<b>\$ 3,662,227</b>	<b>\$ 3,662,227</b>	<b>\$ 3,662,227</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>					
Administration	\$ 981,537	\$ 902,597	\$ 902,597	\$ 902,597	\$ 902,597
Marketing Plan	\$ 321,900	\$ 430,380	\$ 430,380	\$ 430,380	\$ 430,380
Planning	\$ 549,296	\$ 703,170	\$ 703,170	\$ 703,170	\$ 703,170
Evaluation Measurement and Verification	\$ 1,920,000	\$ 1,920,000	\$ 2,880,000	\$ 2,880,000	\$ 2,880,000
Evaluation Administrator	\$ 227,298	\$ 210,542	\$ 284,232	\$ 284,232	\$ 284,232
Information Technology	\$ 1,019,170	\$ 1,839,097	\$ 1,839,097	\$ 1,839,097	\$ 1,839,097
Energy Efficiency Board Consultants	\$ 380,641	\$ 416,000	\$ 512,001	\$ 512,001	\$ 512,001
Audits - Financial and Operational	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
Performance Management Incentive	\$ 7,770,609	\$ 6,913,829	\$ 7,300,622	\$ 6,888,515	\$ 6,717,979
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 13,230,452</b>	<b>\$ 13,395,615</b>	<b>\$14,912,099</b>	<b>\$14,499,992</b>	<b>\$ 14,329,456</b>
<b>TOTAL</b>	<b>\$147,662,638</b>	<b>\$161,241,025</b>	<b>\$154,169,297</b>	<b>\$145,515,046</b>	<b>\$141,933,793</b>

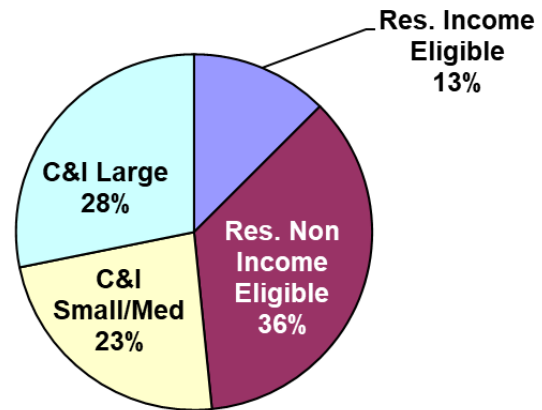
Eversource Electric Table A Pie Chart (2022)

Eversource CT Electric  
2022 EE Budget and Parity Analysis  
Table A1 Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 18,717,463	12%	13%	13%	1%
Res. Non Income-Eligible	\$ 49,461,606	32%	36%	36%	0%
<b>Residential Subtotal</b>	<b>\$ 68,179,069</b>	<b>44%</b>	<b>49%</b>	<b>48%</b>	<b>0%</b>
C&I Small/Medium	\$ 32,391,212	21%	23%	23%	0%
C&I Large	\$ 38,955,070	25%	28%	28%	0%
<b>C&amp;I Subtotal</b>	<b>\$71,346,283</b>	<b>46%</b>	<b>51%</b>	<b>52%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$139,525,351</b>	<b>91%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$14,643,946	9%			
<b>Other Expenditures Subtotal</b>	<b>\$14,643,946</b>	<b>9%</b>			
<b>Energy Efficiency Total</b>	<b>\$154,169,297</b>	<b>100%</b>			

Note: Municipalities and state facilities are eligible to participate in C&I Program offerings as applicable.

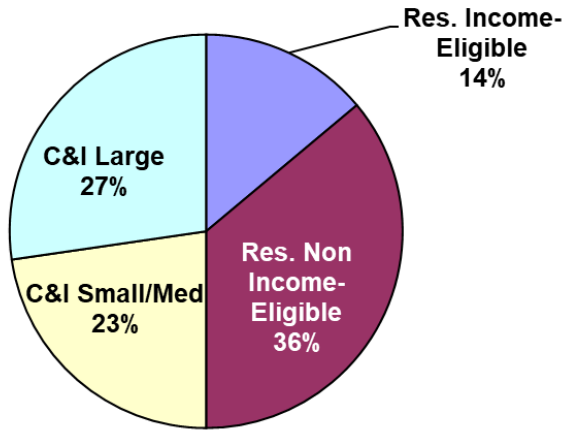
\*Please see attached Budget Allocation Table.

Totals may vary due to rounding.

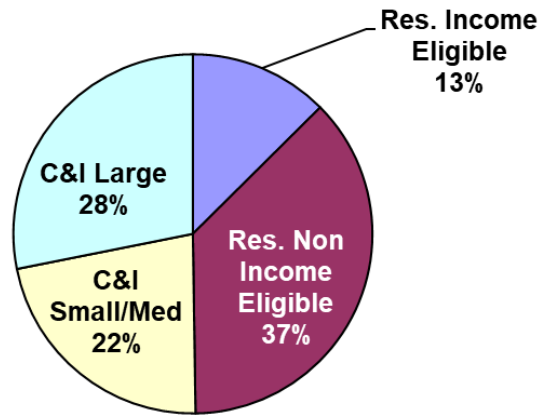
Eversource Electric Table A Pie Chart (2023)

Eversource CT Electric  
2023 EE Budget and Parity Analysis  
Table A Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 17,652,507	12%	14%	13%	1%
Res. Non Income-Eligible	\$ 47,630,118	33%	36%	37%	-1%
<b>Residential Subtotal</b>	<b>\$ 65,282,625</b>	<b>45%</b>	<b>50%</b>	<b>50%</b>	<b>0%</b>
C&I Small/Medium	\$ 29,964,265	21%	23%	22%	0%
C&I Large	\$ 36,036,318	25%	27%	28%	0%
<b>C&amp;I Subtotal</b>	<b>\$66,000,583</b>	<b>45%</b>	<b>50%</b>	<b>50%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$131,283,207</b>	<b>90%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$14,231,839	10%			
<b>Other Expenditures Subtotal</b>	<b>\$14,231,839</b>	<b>10%</b>			
<b>Energy Efficiency Total</b>	<b>\$145,515,046</b>	<b>100%</b>			

Note: Municipalities and state facilities are eligible to participate in C&I Program offerings as applicable.

\*Please see attached Budget Allocation Table.

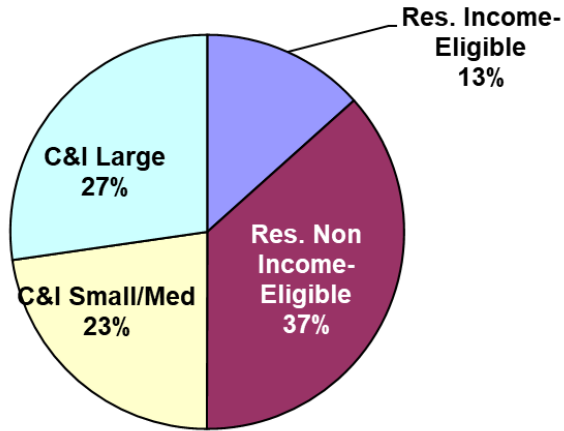
Totals may vary due to rounding.



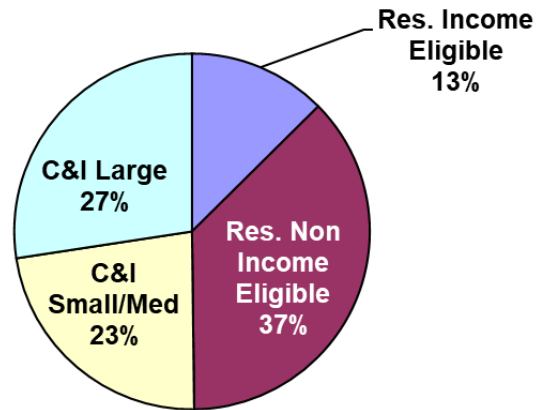
Eversource Electric Table A Pie Chart (2024)

Eversource CT Electric  
2024 EE Budget and Parity Analysis  
Table A Pie Chart

EE Budget By Customer Class



EE Revenue By Customer Class



Customer Class	Budget	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 17,119,062	12%	13%	13%	1%
Res. Non Income-Eligible	\$ 46,852,912	33%	37%	37%	-1%
<b>Residential Subtotal</b>	<b>\$ 63,971,975</b>	<b>45%</b>	<b>50%</b>	<b>50%</b>	<b>0%</b>
C&I Small/Medium	\$ 29,010,834	20%	23%	23%	0%
C&I Large	\$ 34,889,681	25%	27%	27%	0%
<b>C&amp;I Subtotal</b>	<b>\$63,900,515</b>	<b>45%</b>	<b>50%</b>	<b>50%</b>	<b>0%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$127,872,490</b>	<b>90%</b>	<b>100%</b>	<b>100%</b>	<b>0%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$14,061,303	10%			
<b>Other Expenditures Subtotal</b>	<b>\$14,061,303</b>	<b>10%</b>			
<b>Energy Efficiency Total</b>	<b>\$141,933,793</b>	<b>100%</b>			

Note: Municipalities and state facilities are eligible to participate in C&I Program offerings as applicable.

\*Please see attached Budget Allocation Table.

Totals may vary due to rounding.

## Eversource Electric Table A Budget Allocation (2022-2024)

Table A Pie Sector Allocation			
	Residential	C&I	Other
<b>OTHER - LOAD MANAGEMENT</b>			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	80%	20%	0%
Workforce Development	50%	50%	0%
Community Outreach	50%	50%	0%
Customer Engagement Initiative	80%	20%	0%
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	0%	0%	100%
Marketing Plan	80%	20%	0%
Planning	0%	0%	100%
Evaluation Measurement and Verification	0%	0%	100%
Evaluation Administrator	0%	0%	100%
Information Technology	0%	0%	100%
Energy Efficiency Board Consultants	0%	0%	100%
Audit - Financial and Operational	0%	0%	100%
Performance Management Incentive	0%	0%	100%
<p><i>Note: Core Residential and C&amp;I programs that produce savings are allocated 100% to the Residential and C&amp;I sectors, respectively. Other programs budgets are allocated to both Residential and C&amp;I sectors based on an estimated percentage of the sector that those dollars will directly benefit by the percentages above.</i></p>			

Table B – Eversource CT Electric Costs and Benefits (2022)

2022 Eversource Electric	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios			Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>											
Retail Products	\$4,158	\$4,158	\$9,210	\$6,659	\$6,571	\$12,026	1.60	1.58	1.31	442,799	Products
New Construction	\$3,741	\$3,786	\$7,324	\$6,808	\$8,547	\$10,781	1.82	2.26	1.47	1,337	Homes
Home Energy Solutions	\$10,575	\$21,962	\$23,841	\$11,229	\$53,835	\$75,628	1.06	2.45	3.17	17,600	Homes
HVAC	\$13,865	\$13,865	\$24,351	\$13,598	\$41,445	\$56,674	0.98	2.99	2.33	55,405	Products
HES - Income Eligible	\$10,612	\$16,944	\$17,884	\$3,761	\$21,237	\$44,158	0.35	1.25	2.47	15,187	Homes
Behavior	\$90	\$90	\$90	\$93	\$93	\$139	1.03	1.03	1.54	130,000	Customers
<b>Subtotal: Residential EE Portfolio</b>	<b>\$43,041</b>	<b>\$60,805</b>	<b>\$82,700</b>	<b>\$42,148</b>	<b>\$131,728</b>	<b>\$199,405</b>	<b>0.98</b>	<b>2.17</b>	<b>2.41</b>	-	-
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	\$13,013	\$13,013	\$14,245	\$38,242	\$38,164	\$52,057	2.94	2.93	3.65	168	Projects
Energy Opportunities	\$35,333	\$35,333	\$63,169	\$58,358	\$58,005	\$81,407	1.65	1.64	1.29	547	Projects
BES	\$3,126	\$3,126	\$5,190	\$8,556	\$8,609	\$12,296	2.74	2.75	2.37	185	Projects
Small Business	\$13,527	\$13,527	\$24,830	\$25,900	\$25,788	\$35,510	1.91	1.91	1.43	860	Projects
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$64,999</b>	<b>\$64,999</b>	<b>\$107,433</b>	<b>\$131,057</b>	<b>\$130,566</b>	<b>\$181,269</b>	<b>2.02</b>	<b>2.01</b>	<b>1.69</b>	-	-
<b>Load Response</b>											
Demand Response - Res	\$2,840	\$2,840	\$2,840	\$2,924	\$2,924	\$2,924	1.03	1.03	1.03	23,600	Products
Demand Response - C&I	\$4,253	\$4,253	\$4,253	\$9,663	\$9,663	\$9,663	2.27	2.27	2.27	305	Products
<b>Subtotal: Demand Response</b>	<b>\$7,093</b>	<b>\$7,093</b>	<b>\$7,093</b>	<b>\$12,587</b>	<b>\$12,587</b>	<b>\$12,587</b>	<b>1.77</b>	<b>1.77</b>	<b>1.77</b>	-	-
<b>Other</b>											
<b>Subtotal: Other</b>	<b>\$21,272</b>	<b>\$21,272</b>	<b>\$21,272</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	-	-	-	-	-
<b>TOTAL</b>	<b>\$136,405</b>	<b>\$154,169</b>	<b>\$218,498</b>	<b>\$185,792</b>	<b>\$274,881</b>	<b>\$393,262</b>	<b>1.36</b>	<b>1.78</b>	<b>1.80</b>	-	-

Table B – Eversource CT Electric Costs and Benefits (2022) (continued)

2022 Eversource Electric	Electric Savings			Electric Cost Rates				Oil/Propane Savings			
	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)
<b>Residential</b>											
Retail Products	11,604	57,755	1,462	\$0.358	\$0.072	\$2,845	\$571	-57,345	-47,398	-1,154	-2,308
New Construction	3,192	61,325	526	\$1.172	\$0.061	\$7,111	\$370	-	-	21,018	525,453
Home Energy Solutions	6,508	80,717	1,602	\$1.625	\$0.131	\$6,601	\$532	576,515	11,954,305	60,242	1,281,931
HVAC	6,539	103,229	1,812	\$2.120	\$0.134	\$7,653	\$485	453,566	6,749,087	125,220	1,795,670
HES - Income Eligible	4,641	35,562	620	\$2.287	\$0.298	\$17,115	\$2,233	233,775	5,013,641	19,781	450,334
Behavior	715	715	82	\$0.126	\$0.126	\$1,103	\$1,103	-	-	-	-
<b>Subtotal: Residential EE Portfolio</b>	<b>33,199</b>	<b>339,304</b>	<b>6,103</b>	<b>\$1.296</b>	<b>\$0.127</b>	<b>\$7,052</b>	<b>\$690</b>	<b>1,206,511</b>	<b>23,669,635</b>	<b>225,107</b>	<b>4,051,079</b>
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	23,259	323,581	4,902	\$0.559	\$0.040	\$2,655	\$191	510	10,200	408	8,160
Energy Opportunities	62,012	442,419	10,405	\$0.570	\$0.080	\$3,396	\$476	2,028	20,280	1,217	12,168
BES	8,984	67,537	1,625	\$0.348	\$0.046	\$1,924	\$256	1,342	10,735	805	6,441
Small Business	23,881	189,451	4,882	\$0.566	\$0.071	\$2,771	\$349	720	12,960	576	10,368
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>118,137</b>	<b>1,022,988</b>	<b>21,814</b>	<b>\$0.550</b>	<b>\$0.064</b>	<b>\$2,980</b>	<b>\$344</b>	<b>4,600</b>	<b>54,175</b>	<b>3,006</b>	<b>37,137</b>
<b>Load Response</b>											
Demand Response - Res	-	-	13,115	\$ -	\$ -	\$217	\$217	-	-	-	-
Demand Response - C&I	-	-	72,000	\$ -	\$ -	\$59	\$59	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>85,115</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>151,336</b>	<b>1,362,292</b>	<b>113,032</b>	<b>\$0.901</b>	<b>\$0.100</b>	<b>\$1,207</b>	<b>\$134</b>	<b>1,211,111</b>	<b>23,723,810</b>	<b>228,113</b>	<b>4,088,216</b>

2022 Eversource Electric	MMBtu Savings				Emissions Savings	
	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>						
Retail Products	31,533	190,276	\$132	\$22	3,497	22,171
New Construction	12,812	257,231	\$296	\$15	1,397	27,830
Home Energy Solutions	107,663	2,050,427	\$204	\$11	10,985	207,237
HVAC	96,654	1,452,247	\$143	\$10	9,824	147,898
HES - Income Eligible	50,064	857,810	\$338	\$20	5,021	86,073
Behavior	2,440	2,440	\$37	\$37	274	274
<b>Subtotal: Residential EE Portfolio</b>	<b>301,165</b>	<b>4,810,431</b>	<b>\$202</b>	<b>\$13</b>	<b>30,998</b>	<b>491,484</b>
<b>Commercial &amp; Industrial</b>						
Energy Conscious Blueprint	79,467	1,106,219	\$164	\$12	8,832	123,011
Energy Opportunities	211,978	1,513,457	\$167	\$23	23,208	166,018
BES	30,914	232,512	\$101	\$13	3,472	26,113
Small Business	81,635	649,153	\$166	\$21	8,933	71,299
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>403,994</b>	<b>3,501,341</b>	<b>\$161</b>	<b>\$19</b>	<b>44,445</b>	<b>386,440</b>
<b>Load Response</b>						
Demand Response - Res	-	-	\$ -	\$ -	-	-
Demand Response - C&I	-	-	\$ -	\$ -	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>705,159</b>	<b>8,311,772</b>	<b>\$193</b>	<b>\$16.411</b>	<b>75,442</b>	<b>877,924</b>

Table B – Eversource CT Electric Costs and Benefits (2023)

2023 Eversource Electric	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios			Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>											
Retail Products	\$4,158	\$4,158	\$9,908	\$7,214	\$7,432	\$16,775	1.73	1.79	1.69	355,651	Products
New Construction	\$3,460	\$3,506	\$6,814	\$6,310	\$7,945	\$9,921	1.82	2.27	1.46	1,248	Homes
Home Energy Solutions	\$9,214	\$20,601	\$22,371	\$10,163	\$51,029	\$71,399	1.10	2.48	3.19	16,641	Homes
HVAC	\$13,429	\$13,429	\$23,537	\$12,974	\$40,888	\$55,603	0.97	3.04	2.36	53,409	Products
HES - Income Eligible	\$9,552	\$15,884	\$15,949	\$3,444	\$19,614	\$39,312	0.36	1.23	2.46	14,131	Homes
Behavior	\$90	\$90	\$90	\$98	\$98	\$148	1.08	1.08	1.64	130,000	Customers
<b>Subtotal: Residential EE Portfolio</b>	<b>\$39,902</b>	<b>\$57,667</b>	<b>\$78,669</b>	<b>\$40,202</b>	<b>\$127,005</b>	<b>\$193,156</b>	<b>1.01</b>	<b>2.20</b>	<b>2.46</b>		
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	\$11,494	\$11,494	\$12,548	\$30,942	\$30,907	\$41,515	2.69	2.69	3.31	144	Projects
Energy Opportunities	\$32,404	\$32,404	\$57,190	\$51,211	\$50,937	\$71,071	1.58	1.57	1.24	487	Projects
BES	\$3,101	\$3,101	\$5,135	\$8,343	\$8,398	\$11,922	2.69	2.71	2.32	182	Projects
Small Business	\$12,527	\$12,527	\$22,787	\$23,178	\$23,099	\$31,618	1.85	1.84	1.39	807	Projects
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$59,526</b>	<b>\$59,526</b>	<b>\$97,660</b>	<b>\$113,675</b>	<b>\$113,340</b>	<b>\$156,125</b>	<b>1.91</b>	<b>1.90</b>	<b>1.60</b>	-	-
<b>Load Response</b>											
Demand Response - Res	\$3,082	\$3,082	\$3,082	\$3,232	\$3,232	\$3,231	1.05	1.05	1.05	25,960	Products
Demand Response - C&I	\$4,381	\$4,381	\$4,381	\$10,751	\$10,751	\$10,751	2.45	2.45	2.45	330	Products
<b>Subtotal: Demand Response</b>	<b>\$7,463</b>	<b>\$7,463</b>	<b>\$7,463</b>	<b>\$13,983</b>	<b>\$13,983</b>	<b>\$13,982</b>	<b>3.50</b>	<b>3.50</b>	<b>3.50</b>	-	-
<b>Subtotal: Other</b>	<b>\$20,860</b>	<b>\$20,860</b>	<b>\$20,860</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$127,751</b>	<b>\$145,515</b>	<b>\$204,651</b>	<b>\$167,860</b>	<b>\$254,328</b>	<b>\$363,264</b>	<b>1.31</b>	<b>1.75</b>	<b>1.78</b>	<b>-</b>	<b>-</b>

Table B – Eversource CT Electric Costs and Benefits (2023) (continued)

2023 Eversource Electric	Electric Savings			Electric Cost Rates				Oil/Propane Savings			
	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)
<b>Residential</b>											
Retail Products	11,050	63,925	1,372	\$0.376	\$0.065	\$3,032	\$524	-17,157	37,179	-869	-1,738
New Construction	2,945	56,333	496	\$1.175	\$0.061	\$6,973	\$365	-	-	19,187	479,678
Home Energy Solutions	5,128	71,730	1,293	\$1.797	\$0.128	\$7,126	\$509	540,691	11,063,804	56,249	1,181,508
HVAC	6,304	99,509	1,746	\$2.130	\$0.135	\$7,689	\$487	437,220	6,505,859	120,707	1,730,957
HES - Income Eligible	4,121	31,690	658	\$2.318	\$0.301	\$14,522	\$1,888	209,513	4,474,244	17,948	405,158
Behavior	715	715	82	\$0.126	\$0.126	\$1,103	\$1,103	-	-	-	-
<b>Subtotal: Residential EE Portfolio</b>	<b>30,262</b>	<b>323,901</b>	<b>5,646</b>	<b>\$1.319</b>	<b>\$0.123</b>	<b>\$7,067</b>	<b>\$660</b>	<b>1,170,267</b>	<b>22,081,086</b>	<b>213,221</b>	<b>3,795,562</b>
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	18,518	257,843	4,212	\$0.621	\$0.045	\$2,729	\$196	612	12,240	510	10,200
Energy Opportunities	55,218	393,947	9,265	\$0.587	\$0.082	\$3,497	\$490	2,434	24,336	1,622	16,224
BES	8,853	66,547	1,601	\$0.350	\$0.047	\$1,937	\$258	1,322	10,578	793	6,347
Small Business	21,678	171,973	4,431	\$0.578	\$0.073	\$2,827	\$356	792	14,256	730	13,142
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>104,267</b>	<b>890,311</b>	<b>19,510</b>	<b>\$0.571</b>	<b>\$0.067</b>	<b>\$3,051</b>	<b>\$357</b>	<b>5,160</b>	<b>61,410</b>	<b>3,656</b>	<b>45,912</b>
<b>Load Response</b>											
Demand Response - Res	-	-	14,427	\$ -	\$ -	\$214	\$214	-	-	-	-
Demand Response - C&I	-	-	79,200	\$ -	\$ -	\$55	\$55	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>93,627</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>134,529</b>	<b>1,214,212</b>	<b>118,783</b>	<b>\$0.950</b>	<b>\$0.105</b>	<b>\$1,075</b>	<b>\$119</b>	<b>1,175,427</b>	<b>22,142,496</b>	<b>216,877</b>	<b>3,841,474</b>

2023 Eversource Electric	MMBtu Savings				Emissions Savings	
	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>						
Retail Products	35,245	223,109	\$118	\$19	4,021	26,229
New Construction	11,801	236,017	\$297	\$15	1,287	25,540
Home Energy Solutions	97,622	1,887,087	\$211	\$11	9,926	190,618
HVAC	93,170	1,399,910	\$144	\$10	9,470	142,568
HES - Income Eligible	44,756	765,662	\$355	\$21	4,471	76,732
Behavior	2,440	2,440	\$37	\$37	274	274
<b>Subtotal: Residential EE Portfolio</b>	<b>285,033</b>	<b>4,514,224</b>	<b>\$202</b>	<b>\$13</b>	<b>29,449</b>	<b>461,962</b>
<b>Commercial &amp; Industrial</b>						
Energy Conscious Blueprint	63,316	882,391	\$182	\$13	7,038	98,127
Energy Opportunities	188,890	1,349,005	\$172	\$24	20,678	147,961
BES	30,461	229,105	\$102	\$14	3,421	25,730
Small Business	74,142	589,950	\$169	\$21	8,112	64,786
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>356,808</b>	<b>3,050,451</b>	<b>\$167</b>	<b>\$20</b>	<b>39,249</b>	<b>336,604</b>
<b>Load Response</b>						
Demand Response - Res	-	-	\$ -	\$ -	-	-
Demand Response - C&I	-	-	\$ -	\$ -	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>641,842</b>	<b>7,564,675</b>	<b>\$227</b>	<b>\$19</b>	<b>68,699</b>	<b>798,565</b>

Table B – Eversource CT Electric Costs and Benefits (2024)

2024 Eversource Electric	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios			Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>											
Retail Products	\$3,300	\$3,300	\$7,554	\$4,982	\$5,202	\$12,145	1.51	1.58	1.61	190,881	Products
New Construction	\$3,353	\$3,399	\$6,614	\$6,094	\$7,711	\$9,529	1.82	2.27	1.44	1,212	Homes
Home Energy Solutions	\$9,244	\$20,631	\$22,424	\$9,840	\$52,278	\$71,695	1.06	2.53	3.20	17,082	Homes
HVAC	\$13,171	\$13,171	\$23,054	\$12,494	\$40,729	\$55,112	0.95	3.09	2.39	52,220	Products
HES - Income Eligible	\$8,980	\$15,312	\$16,195	\$3,020	\$18,716	\$37,807	0.34	1.22	2.33	13,173	Homes
Behavior	\$90	\$90	\$90	\$96	\$96	\$138	1.07	1.07	1.54	130,000	Customers
<b>Subtotal: Residential EE Portfolio</b>	<b>\$38,138</b>	<b>\$55,902</b>	<b>\$75,931</b>	<b>\$36,526</b>	<b>\$124,733</b>	<b>\$186,427</b>	<b>0.96</b>	<b>2.23</b>	<b>2.46</b>	-	-
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	\$10,623	\$10,623	\$11,582	\$27,657	\$27,656	\$36,453	2.60	2.60	3.15	131	Projects
Energy Opportunities	\$31,573	\$31,573	\$55,401	\$48,315	\$48,089	\$66,485	1.53	1.52	1.20	468	Projects
BES	\$3,060	\$3,060	\$5,047	\$8,002	\$8,048	\$11,311	2.62	2.63	2.24	178	Projects
Small Business	\$12,039	\$12,039	\$21,768	\$20,974	\$20,918	\$28,255	1.74	1.74	1.30	765	Projects
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$57,294</b>	<b>\$57,294</b>	<b>\$93,798</b>	<b>\$104,948</b>	<b>\$104,712</b>	<b>\$142,503</b>	<b>1.83</b>	<b>1.83</b>	<b>1.52</b>	-	-
<b>Load Response</b>											
Demand Response - RES	\$3,536	\$3,536	\$3,536	\$3,622	\$3,622	\$3,622	1.02	1.02	1.02	28,556	Products
Demand Response - C&I	\$4,512	\$4,512	\$4,512	\$12,056	\$12,056	\$12,056	2.67	2.67	2.67	352	Products
<b>Subtotal: Demand Response</b>	<b>\$8,048</b>	<b>\$8,048</b>	<b>\$8,048</b>	<b>\$15,678</b>	<b>\$15,678</b>	<b>\$15,678</b>	<b>1.95</b>	<b>1.95</b>	<b>1.95</b>	-	-
<b>Subtotal: Other</b>	<b>\$20,689</b>	<b>\$20,689</b>	<b>\$20,689</b>	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>\$124,169</b>	<b>\$141,934</b>	<b>\$198,467</b>	<b>\$157,152</b>	<b>\$245,123</b>	<b>\$344,608</b>	<b>1.27</b>	<b>1.73</b>	<b>1.74</b>	-	-

Table B – Eversource CT Electric Costs and Benefits (2024) (continued)

2024 Eversource Electric	Electric Savings			Electric Cost Rates				Oil/Propane Savings			
	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)
<b>Residential</b>											
Retail Products	6,920	46,075	845	\$0.477	\$0.072	\$3,905	\$586	-6,403	40,438	-	-
New Construction	2,846	54,352	484	\$1.178	\$0.062	\$6,929	\$363	-	-	18,465	461,614
Home Energy Solutions	5,229	71,888	1,405	\$1.768	\$0.129	\$6,578	\$478	544,268	11,130,424	56,249	1,181,508
HVAC	6,163	97,293	1,708	\$2.137	\$0.135	\$7,713	\$489	427,486	6,361,017	118,020	1,692,420
HES - Income Eligible	3,670	28,878	541	\$2.447	\$0.311	\$16,604	\$2,110	197,396	4,197,256	17,396	389,428
Behavior	715	715	82	\$0.126	\$0.126	\$1,103	\$1,103	-	-	-	-
<b>Subtotal: Residential EE Portfolio</b>	<b>25,544</b>	<b>299,201</b>	<b>5,064</b>	<b>\$1.493</b>	<b>\$0.127</b>	<b>\$7,531</b>	<b>\$643</b>	<b>1,162,748</b>	<b>21,729,134</b>	<b>210,129</b>	<b>3,724,970</b>
<b>Commercial &amp; Industrial</b>											
Energy Conscious Blueprint	16,207	226,479	4,068	\$0.655	\$0.047	\$2,611	\$187	714	14,280	612	12,240
Energy Opportunities	53,086	378,739	8,907	\$0.595	\$0.083	\$3,545	\$497	2,839	28,392	2,028	20,280
BES	8,647	65,005	1,564	\$0.354	\$0.047	\$1,956	\$260	967	7,738	775	6,199
Small Business	19,608	156,638	4,202	\$0.614	\$0.077	\$2,865	\$359	862	15,509	728	13,105
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>97,549</b>	<b>826,860</b>	<b>18,742</b>	<b>\$0.587</b>	<b>\$0.069</b>	<b>\$3,057</b>	<b>\$361</b>	<b>5,382</b>	<b>65,919</b>	<b>4,143</b>	<b>51,825</b>
<b>Load Response</b>											
Demand Response - Residential	-	-	15,869	\$ -	\$ -	\$223	\$223	-	-	-	-
Demand Response - C&I	-	-	84,662	\$ -	\$ -	\$53	\$53	-	-	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>100,531</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>123,093</b>	<b>1,126,061</b>	<b>124,337</b>	<b>\$1.009</b>	<b>\$0.110</b>	<b>\$999</b>	<b>\$109</b>	<b>1,168,130</b>	<b>21,795,053</b>	<b>214,272</b>	<b>3,776,794</b>

2024 Eversource Electric	MMBtu Savings				Emissions Savings	
	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>						
Retail Products	22,723	162,817	\$145	\$20	2,613	19,204
New Construction	11,398	227,607	\$298	\$15	1,243	24,632
Home Energy Solutions	98,464	1,896,867	\$210	\$11	10,014	191,603
HVAC	91,096	1,368,743	\$145	\$10	9,259	139,394
HES - Income Eligible	41,486	716,215	\$369	\$21	4,114	71,684
Behavior	2,440	2,440	\$37	\$37	274	274
<b>Subtotal: Residential EE Portfolio</b>	<b>267,607</b>	<b>4,374,688</b>	<b>\$209</b>	<b>\$13</b>	<b>27,518</b>	<b>446,791</b>
<b>Commercial &amp; Industrial</b>						
Energy Conscious Blueprint	55,454	775,844	\$192	\$14	6,168	86,330
Energy Opportunities	181,710	1,298,048	\$174	\$24	19,891	142,360
BES	29,710	223,436	\$103	\$14	3,337	25,098
Small Business	67,088	537,795	\$179	\$22	7,342	59,072
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>333,962</b>	<b>2,835,123</b>	<b>\$172</b>	<b>\$20</b>	<b>36,738</b>	<b>312,860</b>
<b>Load Response</b>						
Demand Response - RES	-	-	\$ -	\$ -	-	-
Demand Response - C&I	-	-	\$ -	\$ -	-	-
<b>Subtotal: Demand Response</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>601,569</b>	<b>7,209,811</b>	<b>\$236</b>	<b>\$20</b>	<b>64,257</b>	<b>759,651</b>



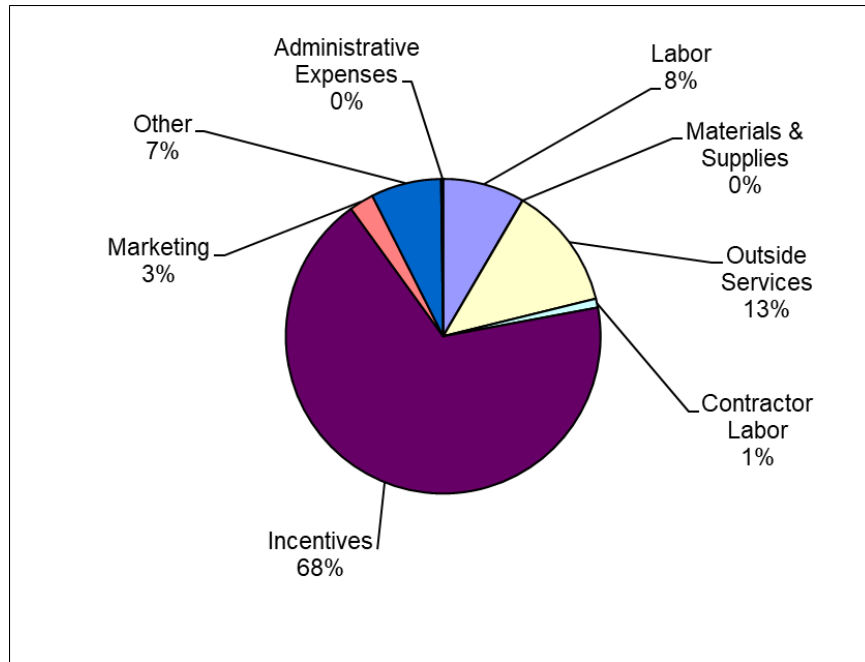
Table C – Eversource CT Electric Energy Efficiency Budget Details (2022)

**Table C**  
**Eversource CT Electric 2022 EE Budget Details**

Eversource CT Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$ 145	\$ 1	\$ 900	\$ 27	\$ 2,500	\$ 556	\$ 20	\$ 9	\$ 4,158
Residential New Construction	\$ 192	\$ 1	\$ 200	\$ 2	\$ 3,287	\$ 78	\$ 17	\$ 9	\$ 3,786
Home Energy Solutions - Core Services	\$ 1,553	\$ 4	\$ 3,146	\$ 100	\$ 16,348	\$ 750	\$ 40	\$ 20	\$ 21,962
Home Energy Solutions - HVAC, Water Heaters	\$ 122	\$ 1	\$ 1,194	\$ 20	\$ 12,200	\$ 291	\$ 18	\$ 18	\$ 13,865
HES-Income Eligible	\$ 1,692	\$ 5	\$ 1,250	\$ 163	\$ 13,025	\$ 750	\$ 26	\$ 34	\$ 16,944
Residential Behavior	\$ -	\$ -	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 3,705</b>	<b>\$12</b>	<b>\$ 6,780</b>	<b>\$ 312</b>	<b>\$ 47,360</b>	<b>\$ 2,425</b>	<b>\$ 121</b>	<b>\$ 90</b>	<b>\$ 60,805</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$ 1,037	\$ 4	\$ 601	\$ 152	\$ 11,082	\$ 100	\$ 27	\$ 10	\$ 13,013
Energy Opportunities	\$ 4,091	\$ 5	\$ 2,300	\$ 588	\$ 27,859	\$ 250	\$ 150	\$ 90	\$ 35,333
Business & Energy Sustainability(O&M, RCx, PRIME, CSP/SEM)	\$ 181	\$ 2	\$ 798	\$ 2	\$ 2,064	\$ 50	\$ 6	\$ 22	\$ 3,126
Small Business	\$ 1,427	\$ 5	\$ 400	\$ 144	\$ 11,303	\$ 200	\$ 27	\$ 20	\$ 13,527
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 6,737</b>	<b>\$ 16</b>	<b>\$ 4,099</b>	<b>\$ 887</b>	<b>\$ 52,309</b>	<b>\$ 600</b>	<b>\$ 210</b>	<b>\$ 142</b>	<b>\$ 64,999</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$ 164	\$ -	\$ 640	\$ -	\$ 1,836	\$ 200	\$ -	\$ -	\$ 2,840
C&I Demand Response	\$ 164	\$ -	\$ 702	\$ 5	\$ 3,269	\$ 112	\$ -	\$ -	\$ 4,253
<b>Subtotal: Load Management</b>	<b>\$ 329</b>	<b>\$ -</b>	<b>\$ 1,342</b>	<b>\$ 5</b>	<b>\$ 5,105</b>	<b>\$ 312</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,093</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$ 53	\$ -	\$ 634	\$ -	\$ -	\$ 49	\$ -	\$ -	\$ 736
Workforce Development	\$ 53	\$ -	\$ 740	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 794
Community Outreach	\$ 35	\$ -	\$ 634	\$ -	\$ -	\$ 80	\$ -	\$ 19	\$ 768
Customer Engagement Initiative	\$ 58	\$ -	\$ 326	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ 400
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 199</b>	<b>\$ -</b>	<b>\$ 2,335</b>	<b>\$ 16</b>	<b>\$ -</b>	<b>\$ 129</b>	<b>\$ -</b>	<b>\$ 19</b>	<b>\$ 2,698</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500	\$ -	\$ 2,500
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000
Research, Development & Demonstration	\$ 68	\$ 2	\$ 87	\$ -	\$ -	\$ -	\$ -	\$ 5	\$ 162
<b>Subtotal: Programs/ Requirements</b>	<b>\$ 68</b>	<b>\$ 2</b>	<b>\$ 87</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,500</b>	<b>\$ 5</b>	<b>\$ 3,662</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$ 841	\$ 4	\$ 18	\$ 40	\$ -	\$ -	\$ -	\$ -	\$ 903
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$428	\$ -	\$ 1	\$ 430
Planning	\$ 669	\$ 1	\$ -	\$ 11	\$ -	\$ -	\$ 10	\$ 12	\$ 703
Evaluation Measurement and Verification	\$ -	\$ -	\$ 2,878	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 2,880
Evaluation Administrator	\$ -	\$ -	\$ 284	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 284
Information Technology	\$ 421	\$ -	\$ 1,224	\$ 145	\$ -	\$ -	\$ -	\$ 50	\$ 1,839
Energy Efficiency Board Consultants	\$ -	\$ -	\$ 512	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 512
Audits - Financial and Operational	\$ -	\$ -	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60
Performance Management Incentive (PMI)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,301	\$ -	\$ 7,301
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 1,930</b>	<b>\$ 5</b>	<b>\$ 4,976</b>	<b>\$ 196</b>	<b>\$ -</b>	<b>\$ 428</b>	<b>\$ 7,313</b>	<b>\$ 64</b>	<b>\$ 14,912</b>
<b>TOTAL BUDGET</b>	<b>\$ 12,968</b>	<b>\$ 35</b>	<b>\$ 19,619</b>	<b>\$ 1,416</b>	<b>\$104,774</b>	<b>\$ 3,895</b>	<b>\$ 11,144</b>	<b>\$ 320</b>	<b>\$ 154,169</b>

Eversource Electric Table C Pie Chart (2022)

**EVERSOURCE CT ELECTRIC  
2022 ENERGY EFFICIENCY  
EE Budget By Expense Class  
Table C Pie Chart**



Expense Classes	Budget	% of Budget
Labor	\$ 12,968	8%
Materials & Supplies	\$ 35	0%
Outside Services	\$ 19,619	13%
Contractor Labor	\$ 1,416	1%
Incentives	\$ 104,774	68%
Marketing	\$ 3,895	3%
Other	\$ 11,144	7%
Administrative Expenses	\$ 320	0%
<b>Total</b>	<b>\$ 154,169</b>	<b>100%</b>

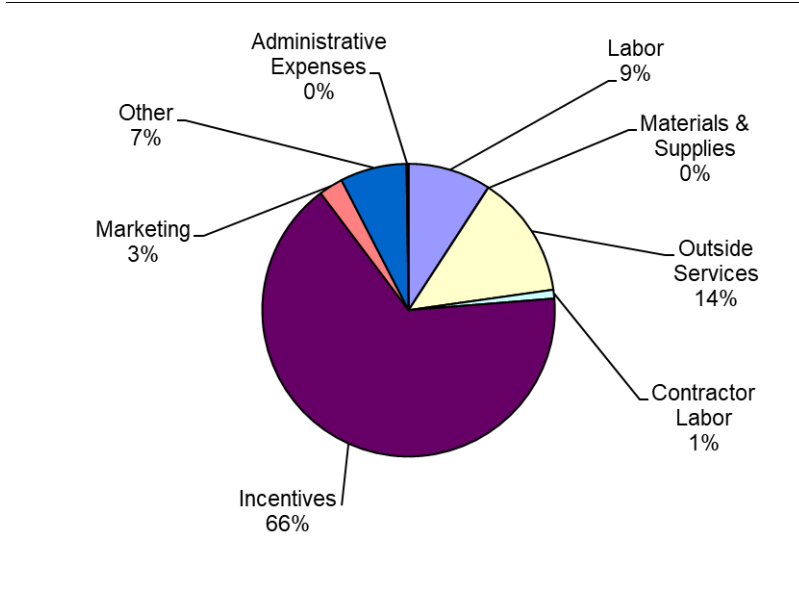
Table C – Eversource CT Electric Energy Efficiency Budget Details (2023)

**Table C**  
**Eversource CT Electric 2023 EE Budget Details**

Eversource CT Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$ 149	\$ 1	\$ 900	\$ 27	\$ 2,496	\$ 556	\$ 20	\$ 9	\$ 4,158
Residential New Construction	\$ 198	\$ 1	\$ 200	\$ 2	\$ 3,000	\$ 78	\$ 17	\$ 9	\$ 3,506
Home Energy Solutions - Core Services	\$ 1,600	\$ 4	\$ 3,146	\$ 100	\$ 14,941	\$ 750	\$ 40	\$ 20	\$ 20,601
Home Energy Solutions - HVAC, Water Heaters	\$ 126	\$ 1	\$ 1,194	\$ 20	\$ 11,760	\$ 291	\$ 18	\$ 18	\$ 13,429
HES-Income Eligible	\$ 1,742	\$ 5	\$ 1,250	\$ 163	\$ 11,914	\$ 750	\$ 26	\$ 34	\$ 15,884
Residential Behavior	\$ -	\$ -	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 3,816</b>	<b>\$ 12</b>	<b>\$ 6,780</b>	<b>\$ 312</b>	<b>\$ 44,111</b>	<b>\$ 2,425</b>	<b>\$ 121</b>	<b>\$ 90</b>	<b>\$ 57,667</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$ 1,069	\$ 4	\$ 601	\$ 152	\$ 9,532	\$ 100	\$ 27	\$ 10	\$ 11,494
Energy Opportunities	\$ 4,213	\$ 5	\$ 2,300	\$ 588	\$ 24,807	\$ 250	\$ 150	\$ 90	\$ 32,404
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 187	\$ 2	\$ 798	\$ 2	\$ 2,034	\$ 50	\$ 6	\$ 22	\$ 3,101
Small Business	\$ 1,470	\$ 5	\$ 400	\$ 144	\$ 10,260	\$ 200	\$ 27	\$ 20	\$ 12,527
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 6,939</b>	<b>\$ 16</b>	<b>\$ 4,099</b>	<b>\$ 887</b>	<b>\$ 46,634</b>	<b>\$ 600</b>	<b>\$ 210</b>	<b>\$ 142</b>	<b>\$ 59,526</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$ 169	\$ -	\$ 677	\$ -	\$ 2,036	\$ 200	\$ -	\$ -	\$ 3,082
C&I Demand Response	\$ 169	\$ -	\$ 825	\$ 5	\$ 3,269	\$ 112	\$ -	\$ -	\$ 4,381
<b>Subtotal: Load Management</b>	<b>\$ 339</b>	<b>\$ -</b>	<b>\$ 1,502</b>	<b>\$ 5</b>	<b>\$ 5,305</b>	<b>\$ 312</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,463</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$ 55	\$ -	\$ 632	\$ -	\$ -	\$ 49	\$ -	\$ -	\$ 736
Workforce Development	\$ 55	\$ -	\$ 739	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 794
Community Outreach	\$ 36	\$ -	\$ 633	\$ -	\$ -	\$ 80	\$ -	\$ 19	\$ 768
Customer Engagement Initiative	\$ 59	\$ -	\$ 325	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ 400
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 205</b>	<b>\$ -</b>	<b>\$ 2,329</b>	<b>\$ 16</b>	<b>\$ -</b>	<b>\$ 129</b>	<b>\$ -</b>	<b>\$ 19</b>	<b>\$ 2,698</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500	\$ -	\$ 2,500
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000
Research, Development & Demonstration	\$ 70	\$ 2	\$ 85	\$ -	\$ -	\$ -	\$ -	\$ 5	\$ 162
<b>Subtotal: Programs/Requirements</b>	<b>\$ 70</b>	<b>\$ 2</b>	<b>\$ 85</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,500</b>	<b>\$ 5</b>	<b>\$ 3,662</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$ 866	\$ -	\$ -	\$ 37	\$ -	\$ -	\$ -	\$ -	\$ 903
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428	\$ 1	\$ 1	\$ 430
Planning	\$ 689	\$ 1	\$ -	\$ -	\$ -	\$ -	\$ 1	\$ 12	\$ 703
Evaluation Measurement and Verification	\$ -	\$ -	\$ 2,878	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 2,880
Evaluation Administrator	\$ -	\$ -	\$ 284	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 284
Information Technology	\$ 433	\$ -	\$ 1,211	\$ 145	\$ -	\$ -	\$ -	\$ 50	\$ 1,839
Energy Efficiency Board Consultants	\$ -	\$ -	\$ 512	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 512
Audits - Financial and Operational	\$ -	\$ -	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60
Performance Management Incentive (PMI)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,889	\$ -	\$ 6,889
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 1,988</b>	<b>\$ 1</b>	<b>\$ 4,946</b>	<b>\$ 181</b>	<b>\$ -</b>	<b>\$ 428</b>	<b>\$ 6,891</b>	<b>\$ 64</b>	<b>\$ 14,500</b>
<b>TOTAL BUDGET</b>	<b>\$ 13,357</b>	<b>\$ 31</b>	<b>\$ 19,740</b>	<b>\$ 1,401</b>	<b>\$ 96,049</b>	<b>\$ 3,895</b>	<b>\$ 10,722</b>	<b>\$ 320</b>	<b>\$ 145,515</b>

Eversource Electric Table C Pie Chart (2023)

**EVERSOURCE CT ELECTRIC  
2023 ENERGY EFFICIENCY  
EE Budget By Expense Class  
Table C Pie Chart**



Expense Classes	Budget	% of Budget
Labor	\$ 13,357	9%
Materials & Supplies	\$ 31	0%
Outside Services	\$ 19,740	14%
Contractor Labor	\$ 1,401	1%
Incentives	\$ 96,049	66%
Marketing	\$ 3,895	3%
Other	\$ 10,722	7%
Administrative Expenses	\$ 320	0%
<b>Total</b>	<b>\$ 145,515</b>	<b>100%</b>

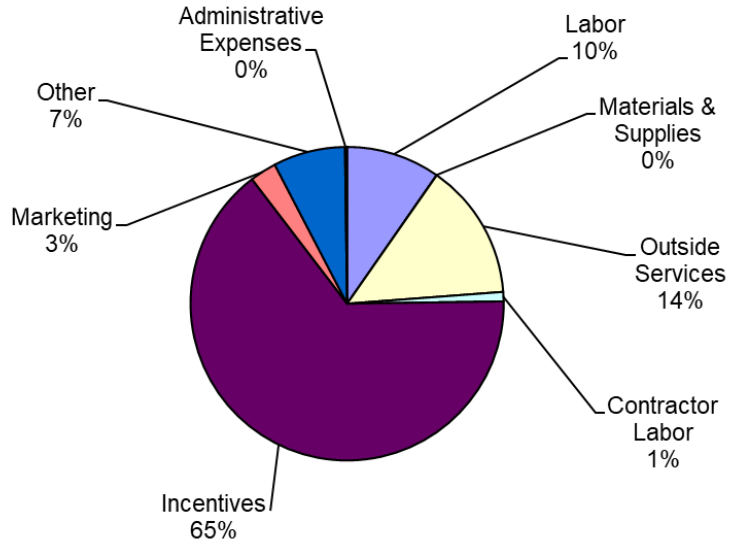
Table C – Eversource CT Electric Energy Efficiency Budget Details (2024)

**Table C**  
**Eversource CT Electric 2024 EE Budget Details**

Eversource CT Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$ 154	\$ 1	\$ 900	\$ 27	\$ 1,633	\$ 556	\$ 20	\$ 9	\$ 3,300
Residential New Construction	\$ 204	\$ 1	\$ 200	\$ 2	\$ 2,887	\$ 78	\$ 17	\$ 9	\$ 3,399
Home Energy Solutions - Core Services	\$ 1,648	\$ 4	\$ 3,146	\$ 100	\$ 14,923	\$ 750	\$ 40	\$ 20	\$ 20,631
Home Energy Solutions - HVAC, Water Heaters	\$ 130	\$ 1	\$ 1,194	\$ 20	\$ 11,499	\$ 291	\$ 18	\$ 18	\$ 13,171
HES-Income Eligible	\$ 1,795	\$ 5	\$ 1,250	\$ 163	\$ 11,290	\$ 750	\$ 26	\$ 34	\$ 15,312
Residential Behavior	\$ -	\$ -	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 90
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 3,930</b>	<b>\$ 12</b>	<b>\$ 6,780</b>	<b>\$ 312</b>	<b>\$ 42,232</b>	<b>\$ 2,425</b>	<b>\$ 121</b>	<b>\$ 90</b>	<b>\$ 55,902</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$ 1,101	\$ 4	\$ 601	\$ 152	\$ 8,628	\$ 100	\$ 27	\$ 10	\$ 10,623
Energy Opportunities	\$ 4,340	\$ 5	\$ 2,300	\$ 588	\$ 23,850	\$ 250	\$ 150	\$ 90	\$ 31,573
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 192	\$ 2	\$ 798	\$ 2	\$ 1,987	\$ 50	\$ 6	\$ 22	\$ 3,060
Small Business	\$ 1,514	\$ 5	\$ 400	\$ 144	\$ 9,729	\$ 200	\$ 27	\$ 20	\$ 12,039
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 7,147</b>	<b>\$ 16</b>	<b>\$ 4,099</b>	<b>\$ 887</b>	<b>\$ 44,194</b>	<b>\$ 600</b>	<b>\$ 210</b>	<b>\$ 142</b>	<b>\$ 57,294</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$ 74	\$ -	\$ 826	\$ -	\$ 2,336	\$ 200	\$ -	\$ -	\$ 3,536
C&I Demand Response	\$ 174	\$ -	\$ 951	\$ 5	\$ 3,269	\$ 112	\$ -	\$ -	\$ 4,512
<b>Subtotal: Load Management</b>	<b>\$ 349</b>	<b>\$ -</b>	<b>\$ 1,777</b>	<b>\$ 5</b>	<b>\$ 5,605</b>	<b>\$ 312</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,048</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$ 56	\$ -	\$ 631	\$ -	\$ -	\$ 49	\$ -	\$ -	\$ 736
Workforce Development	\$ 57	\$ -	\$ 737	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 794
Community Outreach	\$ 37	\$ -	\$ 632	\$ -	\$ -	\$ 80	\$ -	\$ 19	\$ 768
Customer Engagement Initiative	\$ 61	\$ -	\$ 323	\$ 16	\$ -	\$ -	\$ -	\$ -	\$ 400
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 211</b>	<b>\$ -</b>	<b>\$ 2,322</b>	<b>\$ 16</b>	<b>\$ -</b>	<b>\$ 129</b>	<b>\$ -</b>	<b>\$ 19</b>	<b>\$ 2,698</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500	\$ -	\$ 2,500
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000	\$ -	\$ 1,000
Research, Development & Demonstration	\$ 72	\$ 2	\$ 83	\$ -	\$ -	\$ -	\$ -	\$ 5	\$ 162
<b>Subtotal: Programs/Requirements</b>	<b>\$ 72</b>	<b>\$ 2</b>	<b>\$ 83</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,500</b>	<b>\$ 5</b>	<b>\$ 3,662</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$ 892	\$ -	\$ -	\$ 11	\$ -	\$ -	\$ -	\$ -	\$ 903
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 428	\$ 1	\$ 1	\$ 430
Planning	\$ 703	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 703
Evaluation Measurement and Verification	\$ -	\$ -	\$ 2,878	\$ -	\$ -	\$ -	\$ 1	\$ 1	\$ 2,880
Evaluation Administrator	\$ -	\$ -	\$ 284	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 284
Information Technology	\$ 446	\$ -	\$ 1,198	\$ 145	\$ -	\$ -	\$ -	\$ 50	\$ 1,839
Energy Efficiency Board Consultants	\$ -	\$ -	\$ 512	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 512
Audits - Financial and Operational	\$ -	\$ -	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60
Performance Management Incentive (PMI)	\$ -	\$ -	\$ 0	\$ -	\$ -	\$ -	\$ 6,718	\$ -	\$ 6,718
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$ 2,041</b>	<b>\$ -</b>	<b>\$ 4,933</b>	<b>\$ 155</b>	<b>\$ -</b>	<b>\$ 428</b>	<b>\$ 6,720</b>	<b>\$ 52</b>	<b>\$ 14,329</b>
<b>TOTAL BUDGET</b>	<b>\$ 13,751</b>	<b>\$ 30</b>	<b>\$ 19,994</b>	<b>\$ 1,375</b>	<b>\$ 92,030</b>	<b>\$ 3,895</b>	<b>\$ 10,551</b>	<b>\$ 308</b>	<b>\$ 141,934</b>

Eversource Electric Table C Pie Chart (2024)

**EVERSOURCE CT ELECTRIC  
2024 ENERGY EFFICIENCY  
EE Budget By Expense Class  
Table C Pie Chart**



Expense Classes	Budget	% of Budget
Labor	\$ 13,751	10%
Materials & Supplies	\$ 30	0%
Outside Services	\$ 19,994	14%
Contractor Labor	\$ 1,375	1%
Incentives	\$ 92,030	65%
Marketing	\$ 3,895	3%
Other	\$ 10,551	7%
Administrative Expenses	\$ 308	0%
<b>Total</b>	<b>\$ 141,934</b>	<b>100%</b>

Table D – Eversource CT Electric Historical and Projected (\$) (2013-2024)

Table D: Eversource CT Electric Historical and Projected \$

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$6,509,496	\$11,561,025	\$13,693,622	\$14,872,860	\$10,154,122	\$6,529,899
Residential New Construction	\$1,433,966	\$1,573,724	\$2,516,703	\$2,232,996	\$2,887,373	\$2,204,292
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$16,041,653	\$22,290,930	\$19,186,404	\$15,989,863	\$15,512,933	\$10,336,611
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$3,597,327	\$4,050,111	\$4,048,082
HES-Income Eligible	\$9,593,140	\$17,488,762	\$17,345,096	\$21,471,052	\$16,379,801	\$11,599,849
Residential Behavior	\$ -	\$2,703,694	\$2,392,079	\$2,909,233	\$2,954,049	\$526,083
<b>Subtotal: Residential EE Portfolio</b>	<b>\$33,578,255</b>	<b>\$55,618,135</b>	<b>\$55,133,904</b>	<b>\$61,073,331</b>	<b>\$51,938,389</b>	<b>\$35,244,816</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$9,947,173	\$13,875,080	\$12,124,674	\$12,287,599	\$6,718,340	\$6,632,890
Energy Opportunities	\$20,924,237	\$29,217,060	\$33,338,936	\$40,154,158	\$24,882,343	\$29,689,128
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$2,128,057	\$2,899,133	\$3,340,536	\$2,501,793	\$1,484,576	\$2,977,133
Small Business	\$13,329,552	\$16,021,475	\$15,508,750	\$17,615,309	\$16,212,430	\$11,613,734
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$46,329,019</b>	<b>\$62,012,749</b>	<b>\$64,312,896</b>	<b>\$72,558,859</b>	<b>\$49,297,689</b>	<b>\$50,912,884</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program	\$4,128,416	\$3,632,291	\$2,574,236	\$2,414,427	\$2,387,351	\$1,230,295
Residential Demand Response	\$ -	\$ -	\$ -	\$859,080	\$891,827	\$528,780
C&I Demand Response	\$ -	\$ -	\$ -	\$45,345	\$785,216	\$237,674
<b>Subtotal: Load Management</b>	<b>\$4,128,416</b>	<b>\$3,632,291</b>	<b>\$2,574,236</b>	<b>\$3,318,852</b>	<b>\$4,064,394</b>	<b>\$1,996,750</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education (Educate Students 2016- 2021)	\$ -	\$ -	\$ -	\$392,352	\$706,601	(\$1,626)
Workforce Dev. (Educate Workforce 2016-2021)	\$ -	\$ -	\$ -	\$268,446	\$168,211	\$84,770
Comm. Outreach (Educate Public 2016-2021)	\$ -	\$ -	\$ -	\$1,926,470	\$1,934,418	\$562,325
Customer Engagement Initiative (Customer Engagement 2014 to 2021)	\$ -	\$1,817,979	\$1,968,000	\$1,603,922	\$1,507,721	\$1,350,290
SmartLiving Center® - Museum Partnerships	\$274,908	\$1,157,138	\$463,617	\$ -	\$ -	\$ -
Science Center	\$150,392	\$ -	\$ -	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$459,334	\$367,115	\$500,780	\$ -	\$ -	\$ -
Clean Energy Communities / Behavior Pilot	\$729,253	\$1,045,235	\$1,348,330	\$ -	\$ -	\$ -
<b>Subtotal: Education &amp; Engagement</b>	<b>\$1,613,887</b>	<b>\$4,387,467</b>	<b>\$4,280,727</b>	<b>\$4,191,190</b>	<b>\$4,316,951</b>	<b>\$1,995,759</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Res. Loan Program (includes ECLF and OBR)	\$416,865	\$1,509,746	\$2,006,330	\$1,929,824	\$477,326	\$1,032,277
C&I Financing Support	\$0	\$0	\$0	\$6,994,639	\$4,060,806	\$2,677,386
Research, Development & Demonstration	\$198,218	\$267,317	\$177,335	\$208,762	\$84,246	\$281,632
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	\$448,000	\$358,400	\$396,800	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$38,734	\$82,586	\$25,857	\$ -	\$ -	\$ -
C&I Loan Program	\$147,078	\$188,838	\$331,106	\$ -	\$ -	\$ -
EE Loan Defaults	\$170,077	\$75,809	\$179,197	\$ -	\$ -	\$ -
C&I Self-Funding	\$0	\$4,019,676	\$4,593,962	\$ -	\$ -	\$ -
<b>Subtotal: Other Programs/Requirements</b>	<b>\$1,418,972</b>	<b>\$6,502,372</b>	<b>\$7,710,587</b>	<b>\$9,133,225</b>	<b>\$4,622,378</b>	<b>\$3,991,295</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$1,985,104	\$957,493	\$1,059,874	\$555,697	\$721,290	\$813,659
Marketing Plan	\$41,274	\$599,189	\$789,065	\$771,953	\$373,937	\$139,080
Planning	\$680,008	\$659,032	\$670,254	\$632,015	\$594,212	\$601,069
Evaluation Measurement and Verification	\$2,044,455	\$1,642,153	\$1,764,572	\$1,520,745	\$1,920,000	\$1,829,414
Evaluation Administrator	\$0	\$269,541	\$180,399	\$199,281	\$177,694	\$176,199
Information Technology	\$1,934,732	\$807,911	\$1,037,433	\$1,579,383	\$541,146	\$1,147,062
Energy Efficiency Board Consultants	\$475,046	\$401,216	\$410,204	\$366,781	\$314,264	\$306,176
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$42,483	\$60,000
Performance Management Incentive (PMI)	\$6,728,101	\$7,560,041	\$8,197,955	\$9,010,198	\$8,111,330	\$6,953,613
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$13,888,720</b>	<b>\$12,896,576</b>	<b>\$14,109,756</b>	<b>\$14,636,053</b>	<b>\$12,796,357</b>	<b>\$12,026,273</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$100,957,271</b>	<b>\$145,049,590</b>	<b>\$148,122,106</b>	<b>\$164,911,511</b>	<b>\$127,036,159</b>	<b>\$106,167,776</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$96,828,854</b>	<b>\$141,417,299</b>	<b>\$145,547,870</b>	<b>\$162,497,084</b>	<b>\$124,648,808</b>	<b>\$104,937,481</b>

**Table D – Eversource CT Electric Historical and Projected (\$) (2013-2024)(continued)**

Table D Eversource CT Electric Historical and Projected \$						
	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget	2024 Budget
<b>RESIDENTIAL</b>						
Residential Retail Products	\$9,516,880	\$11,189,455	\$6,802,282	\$4,158,000	\$4,158,000	\$3,300,000
Residential New Construction	\$2,032,944	\$2,717,016	\$3,018,874	\$3,786,389	\$3,505,832	\$3,398,786
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$13,824,217	\$20,042,758	\$20,990,119	\$21,961,743	\$20,600,574	\$20,630,532
HVAC & Domestic Water Heating	\$5,285,076	\$9,702,175	\$7,924,546	\$13,864,673	\$13,428,670	\$13,170,628
HES-Income Eligible	\$15,993,834	\$14,316,611	\$17,365,588	\$16,944,360	\$15,883,645	\$15,312,025
Residential Behavior	\$1,001,199	\$ -	\$ -	\$90,000	\$90,000	\$90,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$47,654,149</b>	<b>\$57,968,014</b>	<b>\$56,101,409</b>	<b>\$60,805,165</b>	<b>\$57,666,721</b>	<b>\$55,901,971</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$9,466,049	\$12,436,628	\$13,118,589	\$13,013,265	\$11,494,349	\$10,622,972
Energy Opportunities	\$38,558,761	\$45,020,584	\$40,299,431	\$35,333,451	\$32,403,888	\$31,572,625
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$1,555,926	\$969,960	\$3,763,514	\$3,125,966	\$3,101,155	\$3,059,619
Small Business	\$8,951,760	\$5,382,744	\$17,271,596	\$13,526,525	\$12,526,525	\$12,039,216
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$58,532,496</b>	<b>\$63,809,916</b>	<b>\$74,453,130</b>	<b>\$64,999,207</b>	<b>\$59,525,917</b>	<b>\$57,294,432</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Demand Response	\$760,192	\$1,867,994	\$4,800,000	\$2,840,000	\$3,082,000	\$3,536,100
C&I Demand Response	\$719,003	\$2,470,465	\$5,100,000	\$4,253,000	\$4,380,590	\$4,512,008
<b>Subtotal: Load Management</b>	<b>\$1,479,196</b>	<b>\$4,338,460</b>	<b>\$9,900,000</b>	<b>\$7,093,000</b>	<b>\$7,462,590</b>	<b>\$8,048,108</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education (Educate Students 2016-2021)	\$316,990	\$385,116	\$956,574	\$768,000	\$768,000	\$768,000
Workforce Dev. (Educate Workforce 2016-2021)	\$53,937	\$1,330,909	\$1,668,000	\$400,000	\$400,000	\$400,000
Comm. Outreach (Educate Public 2016-2021)	\$656,954	\$250,732	\$412,236	\$736,000	\$736,000	\$736,000
Customer Engagement Initiative (Customer Engagement 2014 to 2021)	\$1,376,151	\$363,120	\$790,423	\$793,600	\$793,600	\$793,600
SmartLiving Center® - Museum Partnerships	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Science Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities / Behavior Pilot	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Education &amp; Engagement</b>	<b>\$2,404,033</b>	<b>\$2,329,876</b>	<b>\$3,827,233</b>	<b>\$2,697,600</b>	<b>\$2,697,600</b>	<b>\$2,697,600</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Res Loan Program (includes ECLF and OBR)	\$1,500,000	\$2,746,178	\$900,072	\$2,500,000	\$2,500,000	\$2,500,000
C&I Financing Support	\$17,569,775	\$3,103,714	\$2,501,339	\$1,000,000	\$1,000,000	\$1,000,000
Research, Development & Demonstration	\$89,136	\$136,027	\$162,227	\$162,227	\$162,227	\$162,227
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Self-Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Other Programs/Requirements</b>	<b>\$19,158,911</b>	<b>\$5,985,919</b>	<b>\$3,563,638</b>	<b>\$3,662,227</b>	<b>\$3,662,227</b>	<b>\$3,662,227</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$859,689	\$981,537	\$902,597	\$902,597	\$902,597	\$902,597
Marketing Plan	\$128,805	\$321,900	\$430,380	\$430,380	\$430,380	\$430,380
Planning	\$529,884	\$549,296	\$703,170	\$703,170	\$703,170	\$703,170
Evaluation Measurement and Verification	\$1,083,724	\$1,920,000	\$1,920,000	\$2,880,000	\$2,880,000	\$2,880,000
Evaluation Administrator	\$213,391	\$227,298	\$210,542	\$284,232	\$284,232	\$284,232
Information Technology	\$1,070,604	\$1,019,170	\$1,839,097	\$1,839,097	\$1,839,097	\$1,839,097
Energy Efficiency Board Consultants	\$318,423	\$380,641	\$416,000	\$512,001	\$512,001	\$512,001
Audits - Financial and Operational	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
Performance Management Incentive	\$8,751,797	\$7,770,609	\$6,913,829	\$7,300,622	\$6,888,515	\$6,717,979
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$13,016,318</b>	<b>\$13,230,452</b>	<b>\$13,395,615</b>	<b>\$14,912,099</b>	<b>\$14,499,992</b>	<b>\$14,329,456</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$142,245,101</b>	<b>\$147,662,638</b>	<b>\$161,241,025</b>	<b>\$154,169,297</b>	<b>\$145,515,046</b>	<b>\$141,933,793</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$142,245,101</b>	<b>\$147,662,638</b>	<b>\$161,241,025</b>	<b>\$154,169,297</b>	<b>\$145,515,046</b>	<b>\$141,933,793</b>



Table D1 – Eversource CT Electric Historical and Projected (kW)(2013-2024)

**Table D1**  
**Eversource CT Electric Historical and Projected kW**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	5,600	5,710	7,947	10,155	9,557	3,433	4,580	4,966	3,583	1,462	1,372	845
Residential New Construction	562	977	928	903	1,252	903	1,346	1,103	1,007	526	496	484
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	2,852	4,061	3,519	2,404	2,940	2,305	3,017	2,025	2,195	1,602	1,293	1,405
HVAC & Domestic Water Heating	-	-	-	673	805	750	1,020	1,160	881	1,812	1,746	1,708
HES-Income Eligible	610	1,002	1,328	1,875	1,598	1,380	1,676	668	1,064	620	658	541
Residential Behavior	-	7,473	12,520	4,066	4,066	2,508	1,383	-	-	82	82	82
<b>Subtotal: Residential EE Portfolio</b>	<b>9,623</b>	<b>19,222</b>	<b>26,242</b>	<b>20,078</b>	<b>20,219</b>	<b>11,279</b>	<b>13,023</b>	<b>9,921</b>	<b>8,729</b>	<b>6,103</b>	<b>5,646</b>	<b>5,064</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	6,523	7,793	7,103	6,564	3,962	2,779	3,857	3,193	4,235	4,902	4,212	4,068
Energy Opportunities	7,843	10,798	14,840	14,567	13,246	18,377	18,389	15,230	8,154	10,405	9,265	8,907
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	789	1,269	1,340	835	652	1,498	1,498	451	677	1,625	1,601	1,564
Small Business	2,943	3,169	4,140	5,519	5,247	4,530	4,535	2,156	3,581	4,882	4,431	4,202
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>18,099</b>	<b>23,029</b>	<b>27,423</b>	<b>27,486</b>	<b>23,106</b>	<b>27,184</b>	<b>28,278</b>	<b>21,030</b>	<b>16,647</b>	<b>21,814</b>	<b>19,510</b>	<b>18,742</b>
<b>OTHER - LOAD MANAGEMENT</b>												
ISO Load Response Program	95,642	88,627	112,487	36,097	40,746	39,679	-	-	-	-	-	-
Res Demand Response	-	-	-	-	-	-	2,721	12,688	12,096	13,115	14,427	15,869
C&I Demand Response	-	-	-	-	-	-	12,931	50,301	50,100	72,000	79,200	84,662
<b>Subtotal: Load Management</b>	<b>95,642</b>	<b>88,627</b>	<b>112,487</b>	<b>36,097</b>	<b>40,746</b>	<b>39,679</b>	<b>15,652</b>	<b>62,989</b>	<b>62,196</b>	<b>85,115</b>	<b>93,627</b>	<b>100,531</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>123,363</b>	<b>130,878</b>	<b>166,152</b>	<b>83,660</b>	<b>84,071</b>	<b>78,142</b>	<b>56,952</b>	<b>93,940</b>	<b>87,571</b>	<b>113,032</b>	<b>118,783</b>	<b>124,337</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>27,721</b>	<b>42,251</b>	<b>53,665</b>	<b>47,563</b>	<b>43,325</b>	<b>38,463</b>	<b>56,952</b>	<b>93,940</b>	<b>87,571</b>	<b>113,032</b>	<b>118,783</b>	<b>124,337</b>

Table D2 – Eversource CT Electric Historical and Projected Annual kWh (000s)(2013-2024)

**Table D2**  
**Eversource CT Electric Historical and Projected Annual kWh (000s)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goals	Goals	Goals	Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	62,949	64,213	64,799	82,138	77,198	24,499	36,244	40,185	27,426	11,604	11,050	6,920
Residential New Construction	1,896	2,828	3,540	2,363	3,250	2,244	3,524	5,424	3,430	3,192	2,945	2,846
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	16,559	24,010	21,501	15,322	18,176	13,571	18,113	10,048	8,181	6,508	5,128	5,229
HVAC & Domestic Water Heating	-	-	-	8,123	13,725	7,158	3,613	4,824	4,162	6,539	6,304	6,163
HES-Income Eligible	8,187	11,137	14,098	15,891	16,666	13,055	10,897	6,254	7,315	4,641	4,121	3,670
Residential Behavior	-	28,928	48,466	17,811	17,811	21,968	12,117	-	-	715	715	715
<b>Subtotal: Residential EE Portfolio</b>	<b>89,592</b>	<b>131,116</b>	<b>152,405</b>	<b>141,650</b>	<b>146,825</b>	<b>82,495</b>	<b>84,507</b>	<b>66,734</b>	<b>50,515</b>	<b>33,199</b>	<b>30,262</b>	<b>25,544</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	38,741	43,422	37,774	34,278	23,527	17,971	25,651	19,421	24,068	23,259	18,518	16,207
Energy Opportunities	56,899	82,319	101,070	118,741	86,995	96,015	126,917	101,242	69,000	62,012	55,218	53,086
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	6,273	12,812	10,461	8,263	5,491	8,668	5,367	2,700	5,394	8,984	8,853	8,647
Small Business	26,801	32,546	32,587	34,603	31,576	27,587	24,820	9,789	33,473	23,881	21,678	19,608
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>128,713</b>	<b>171,100</b>	<b>181,893</b>	<b>195,885</b>	<b>147,590</b>	<b>150,240</b>	<b>182,754</b>	<b>133,151</b>	<b>131,935</b>	<b>118,137</b>	<b>104,267</b>	<b>97,549</b>
<b>TOTAL</b>	<b>218,305</b>	<b>302,216</b>	<b>334,298</b>	<b>337,535</b>	<b>294,414</b>	<b>232,735</b>	<b>267,261</b>	<b>199,885</b>	<b>182,450</b>	<b>151,336</b>	<b>134,529</b>	<b>123,093</b>

Table D3– Eversource CT Electric Historical and Projected Lifetime kWh (000s)(2013-2024)

**Table D3**  
**Eversource CT Electric Historical and Projected Lifetime kWh (000s)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goals	Goals	Goals	Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	398,800	565,647	654,001	934,999	611,162	148,050	189,377	177,884	93,839	57,755	63,925	46,075
Residential New Construction	31,175	43,056	57,175	39,977	50,862	35,839	59,612	95,363	66,780	61,325	56,333	54,352
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	171,660	284,193	267,677	188,785	198,163	130,728	172,670	111,314	89,862	80,717	71,730	71,888
HVAC & Domestic Water Heating	-	-	-	108,423	204,516	118,555	60,026	77,264	65,025	103,229	99,509	97,293
HES-Income Eligible	113,222	150,565	166,351	193,412	205,101	149,350	117,678	79,855	58,195	35,562	31,690	28,878
Residential Behavior	-	57,856	96,933	45,116	45,116	56,743	31,298	-	-	715	715	715
<b>Subtotal: Residential EE Portfolio</b>	<b>714,857</b>	<b>1,101,316</b>	<b>1,242,137</b>	<b>1,510,712</b>	<b>1,314,918</b>	<b>639,265</b>	<b>630,661</b>	<b>541,680</b>	<b>373,701</b>	<b>339,304</b>	<b>323,901</b>	<b>299,201</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	596,826	667,358	572,757	520,576	348,323	273,280	389,538	286,880	317,535	323,581	257,843	226,479
Energy Opportunities	672,470	953,547	1,142,216	1,354,017	986,891	1,127,699	1,442,039	1,121,625	743,870	442,419	393,947	378,739
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	46,250	91,919	63,189	51,663	30,085	44,465	31,087	17,139	33,437	67,537	66,547	65,005
Small Business	325,004	396,812	404,003	433,416	393,553	341,246	311,798	114,577	370,869	189,451	171,973	156,638
<b>TOTAL</b>	<b>2,355,406</b>	<b>3,210,953</b>	<b>3,424,302</b>	<b>3,870,384</b>	<b>3,073,769</b>	<b>2,425,954</b>	<b>2,805,124</b>	<b>2,081,900</b>	<b>1,839,412</b>	<b>1,362,292</b>	<b>1,214,212</b>	<b>1,126,061</b>

Table D4– Eversource CT Electric Historical and Projected Units (2013-2024)

**Table D4**  
**Eversource CT Electric Historical and Projected Units**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	2,176,584	2,910,409	2,853,482	3,278,554	3,592,169	2,636,995
Residential New Construction	770	1,486	439	586	1,892	1,657
<b>HOME ENERGY SOLUTIONS (HES)</b>						
HES Furnace	104	54	-	-	-	-
HES Heat Pump Water Heater	378	541	1,015	-	-	-
HES Insulation Rebate	1,840	3,592	2,848	-	-	-
HES Window Rebate	2,231	4,166	3,605	-	-	-
HES Appliance Retirement	165	278	187	-	-	-
HES HVAC	303	169	135	-	-	-
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	14,080	16,906	12,428	11,051	18,267	14,444
HVAC & Domestic Water Heating	-	-	-	16,058	21,872	17,099
Residential HVAC	3,357	8,027	14,377	-	-	-
Energy Conservation Loan Program (ECLP)	-	-	-	-	-	-
<b>Total: Home Energy Solution (HES)</b>	<b>22,458</b>	<b>33,733</b>	<b>34,595</b>	<b>27,109</b>	<b>40,139</b>	<b>31,543</b>
HES-Income Eligible	7,824	14,711	12,203	9,599	21,582	15,039
Residential Behavior	-	339,218	296,871	405,959	506,000	119,622
<b>Subtotal: Residential EE Portfolio</b>	<b>2,207,636</b>	<b>3,299,557</b>	<b>3,197,590</b>	<b>3,721,807</b>	<b>4,161,782</b>	<b>2,804,856</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	436	561	560	528	484	326
Energy Opportunities	762	789	796	1,111	1,144	1,147
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	99	120	165	194	144	132
Small Business	1,277	1,571	1,349	1,318	1,275	920
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>2,574</b>	<b>3,041</b>	<b>2,870</b>	<b>3,151</b>	<b>3,047</b>	<b>2,525</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program	225	220	215	113	78	78
Residential Demand Response	-	-	-	-	-	-
C&I Demand Response	-	-	-	-	-	-
<b>Subtotal: Load Management</b>	<b>225</b>	<b>220</b>	<b>215</b>	<b>113</b>	<b>78</b>	<b>78</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>2,210,435</b>	<b>3,302,818</b>	<b>3,200,675</b>	<b>3,725,071</b>	<b>4,164,907</b>	<b>2,807,459</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>2,210,210</b>	<b>3,302,598</b>	<b>3,200,460</b>	<b>3,724,958</b>	<b>4,164,829</b>	<b>2,807,381</b>

**Table D4– Eversource CT Electric Historical and Projected Units (2013-2024) (continued)**

**Table D4  
Eversource CT Electric Historical and Projected Units**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	4,274,928	4,246,668	2,019,423	442,799	355,651	190,881
Residential New Construction	1,723	1,244	1,409	1,337	1,248	1,212
<b>HOME ENERGY SOLUTIONS (HES)</b>						
HES Furnace	-	-	-	-	-	-
HES Heat Pump Water Heater	-	-	-	-	-	-
HES Insulation Rebate	-	-	-	-	-	-
HES Window Rebate	-	-	-	-	-	-
HES Appliance Retirement	-	-	-	-	-	-
HES HVAC	-	-	-	-	-	-
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	17,664	22,226	20,280	17,600	16,641	17,082
HVAC & Domestic Water Heating	20,347	49,474	16,767	55,405	53,409	52,220
Residential HVAC	-	-	-	-	-	-
Energy Conservation Loan Program (ECLP)	-	-	-	-	-	-
<b>Total: Home Energy Solution (HES)</b>	<b>38,011</b>	<b>71,700</b>	<b>37,048</b>	<b>73,005</b>	<b>70,049</b>	<b>69,302</b>
HES-Income Eligible	12,402	16,468	19,249	15,187	14,131	13,173
Residential Behavior	135,902	-	-	130,000	130,000	130,000
<b>Subtotal: Residential EE Portfolio</b>	<b>4,462,966</b>	<b>4,336,080</b>	<b>2,077,128</b>	<b>662,329</b>	<b>571,079</b>	<b>404,568</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	417	1,070	283	168	144	131
Energy Opportunities	1,315	946	1,000	547	487	468
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	117	61	136	185	182	178
Small Business	924	361	1,572	860	807	765
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>2,773</b>	<b>2,438</b>	<b>2,991</b>	<b>1,759</b>	<b>1,620</b>	<b>1,542</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program		-	-	-	-	-
Residential Demand Response	4,379	14,820	20,441	23,600	25,960	28,556
C&I Demand Response	105	206	676	305	330	352
<b>Subtotal: Load Management</b>	<b>4,484</b>	<b>15,026</b>	<b>21,118</b>	<b>21,118</b>	<b>26,290</b>	<b>28,908</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>4,470,223</b>	<b>4,353,544</b>	<b>2,101,237</b>	<b>687,993</b>	<b>598,989</b>	<b>435,018</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>4,470,223</b>	<b>4,353,544</b>	<b>2,101,237</b>	<b>687,993</b>	<b>598,989</b>	<b>435,018</b>

Table D5 - Eversource CT Electric Historical and Cost per Projected kW

**Table D5**  
**Eversource CT Electric Historical and Cost per Projected kW**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$ 1,162	\$ 2,025	\$ 1,723	\$ 1,465	\$ 1,062	\$ 1,902
Residential New Construction	\$ 2,553	\$ 1,611	\$ 2,712	\$ 2,472	\$ 2,306	\$ 2,441
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$ 5,626	\$ 5,489	\$ 5,452	\$ 6,650	\$ 5,277	\$ 4,484
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$ 5,344	\$ 5,030	\$ 5,397
HES-Income Eligible	\$ 15,739	\$ 17,458	\$ 13,061	\$ 11,451	\$ 10,251	\$ 8,406
Residential Behavior	\$ -	\$ 362	\$ 191	\$ 715	\$ 726	\$ 210
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 3,489</b>	<b>\$ 2,894</b>	<b>\$ 2,101</b>	<b>\$ 3,042</b>	<b>\$ 2,569</b>	<b>\$ 3,125</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$ 1,525	\$ 1,780	\$ 1,707	\$ 1,872	\$ 1,696	\$ 2,387
Energy Opportunities	\$ 2,668	\$ 2,706	\$ 2,247	\$ 2,756	\$ 1,878	\$ 1,616
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 2,696	\$ 2,285	\$ 2,493	\$ 2,997	\$ 2,278	\$ 1,987
Small Business	\$ 4,529	\$ 5,056	\$ 3,746	\$ 3,192	\$ 3,090	\$ 2,564
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 2,560</b>	<b>\$ 2,693</b>	<b>\$ 2,345</b>	<b>\$ 2,640</b>	<b>\$ 2,134</b>	<b>\$ 1,873</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program	\$ 43	\$ 41	\$ 23	\$ 67	\$ 59	\$ 31
Residential Demand Response	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Demand Response	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Load Management</b>	<b>\$ 43</b>	<b>\$ 41</b>	<b>\$ 23</b>	<b>\$ 92</b>	<b>\$ 100</b>	<b>\$ 50</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$ 818</b>	<b>\$ 1,108</b>	<b>\$ 891</b>	<b>\$ 1,971</b>	<b>\$ 1,511</b>	<b>\$ 1,359</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$ 3,493</b>	<b>\$ 3,347</b>	<b>\$ 2,712</b>	<b>\$ 3,416</b>	<b>\$ 2,877</b>	<b>\$ 2,728</b>

**Table D5 - Eversource CT Electric Historical and Cost per Projected kW (continued)****Table D5  
Eversource CT Electric Historical and Cost per Projected kW**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	\$ 2,078	\$ 2,253	\$ 1,899	\$ 2,845	\$ 3,032	\$ 3,905
Residential New Construction	\$ 1,510	\$ 2,463	\$ 2,999	\$ 7,198	\$ 7,065	\$ 7,023
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$ 4,581	\$ 9,898	\$ 9,564	\$ 13,708	\$ 15,933	\$ 14,680
HVAC & Domestic Water Heating	\$ 5,181	\$ 8,367	\$ 8,993	\$ 7,653	\$ 7,689	\$ 7,713
HES-Income Eligible	\$ 9,543	\$ 21,427	\$ 16,327	\$ 27,327	\$ 24,148	\$ 28,312
Residential Behavior	\$ 724	\$ -	\$ -	\$ 1,103	\$ 1,103	\$ 1,103
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 3,659</b>	<b>\$ 5,843</b>	<b>\$ 6,427</b>	<b>\$ 9,963</b>	<b>\$ 10,213</b>	<b>\$ 11,038</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$ 2,454	\$ 3,895	\$ 3,097	\$ 2,655	\$ 2,729	\$ 2,611
Energy Opportunities	\$ 2,097	\$ 2,956	\$ 4,942	\$ 3,396	\$ 3,497	\$ 3,545
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 1,039	\$ 2,150	\$ 5,563	\$ 1,924	\$ 1,937	\$ 1,956
Small Business	\$ 1,974	\$ 2,497	\$ 4,824	\$ 2,771	\$ 2,827	\$ 2,865
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 2,070</b>	<b>\$ 3,034</b>	<b>\$ 4,473</b>	<b>\$ 2,980</b>	<b>\$ 3,051</b>	<b>\$ 3,057</b>
<b>OTHER - LOAD MANAGEMENT</b>						
ISO Load Response Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Demand Response	\$ 279	\$ 147	\$ 397	\$ 217	\$ 214	\$ 223
C&I Demand Response	\$ 56	\$ 49	\$ 102	\$ 59	\$ 55	\$ 53
<b>Subtotal: Load Management</b>	<b>\$ 95</b>	<b>\$ 69</b>	<b>\$ 159</b>	<b>\$ 83</b>	<b>\$ 80</b>	<b>\$ 80</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$ 2,498</b>	<b>\$ 1,572</b>	<b>\$ 1,841</b>	<b>\$ 1,364</b>	<b>\$ 1,225</b>	<b>\$ 1,142</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$ 2,498</b>	<b>\$ 1,572</b>	<b>\$ 1,841</b>	<b>\$ 1,364</b>	<b>\$ 1,225</b>	<b>\$ 1,142</b>

Table D6 – Eversource CT Electric Historical and Cost per Projected Annual kWh (2013-2024)

**Table D6**  
**Eversource CT Electric Historical and Cost per Projected Annual kWh**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$ 0.103	\$ 0.180	\$ 0.211	\$ 0.181	\$ 0.132	\$ 0.267
Residential New Construction	\$ 0.756	\$ 0.557	\$ 0.711	\$ 0.945	\$ 0.888	\$ 0.982
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$ 0.969	\$ 0.928	\$ 0.892	\$ 1.044	\$ 0.853	\$ 0.762
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$ 0.443	\$ 0.295	\$ 0.566
HES Income Eligible	\$ 1.172	\$ 1.570	\$ 1.230	\$ 1.351	\$ 0.983	\$ 0.889
Residential Behavior	\$ -	\$ 0.093	\$ 0.049	\$ 0.163	\$ 0.166	\$ 0.024
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 0.375</b>	<b>\$ 0.424</b>	<b>\$ 0.362</b>	<b>\$ 0.431</b>	<b>\$ 0.354</b>	<b>\$ 0.427</b>
Energy Conscious Blueprint	\$ 0.257	\$ 0.320	\$ 0.321	\$ 0.358	\$ 0.286	\$ 0.369
Energy Opportunities	\$ 0.368	\$ 0.355	\$ 0.330	\$ 0.338	\$ 0.286	\$ 0.309
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 0.339	\$ 0.226	\$ 0.319	\$ 0.303	\$ 0.270	\$ 0.343
Small Business	\$ 0.497	\$ 0.492	\$ 0.476	\$ 0.509	\$ 0.513	\$ 0.421
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 0.360</b>	<b>\$ 0.362</b>	<b>\$ 0.354</b>	<b>\$ 0.370</b>	<b>\$ 0.334</b>	<b>\$ 0.339</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$ 0.462</b>	<b>\$ 0.480</b>	<b>\$ 0.443</b>	<b>\$ 0.489</b>	<b>\$ 0.431</b>	<b>\$ 0.456</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$ 0.444</b>	<b>\$ 0.468</b>	<b>\$ 0.435</b>	<b>\$ 0.481</b>	<b>\$ 0.423</b>	<b>\$ 0.451</b>



**Table D6 – Eversource CT Electric Historical and Cost per Projected Annual kWh (2013-2024) (continued)**

**Table D6**  
**Eversource CT Electric Historical and Cost per Projected Annual kWh**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	\$ 0.263	\$ 0.278	\$ 0.248	\$ 0.358	\$ 0.376	\$ 0.477
Residential New Construction	\$ 0.577	\$ 0.501	\$ 0.880	\$ 1.186	\$ 1.190	\$ 1.194
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$ 0.763	\$ 1.995	\$ 2.566	\$ 3.375	\$ 4.017	\$ 3.945
HVAC & Domestic Water Heating	\$ 1.463	\$ 2.011	\$ 1.904	\$ 2.120	\$ 2.130	\$ 2.137
HES Income Eligible	\$ 1.468	\$ 2.289	\$ 2.374	\$ 3.651	\$ 3.855	\$ 4.173
Residential Behavior	\$ 0.083	\$ -	\$ -	\$ 0.126	\$ 0.126	\$ 0.126
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 0.564</b>	<b>\$ 0.869</b>	<b>\$ 1.111</b>	<b>\$ 1.832</b>	<b>\$ 1.906</b>	<b>\$ 2.188</b>
Energy Conscious Blueprint	\$ 0.369	\$ 0.640	\$ 0.545	\$ 0.559	\$ 0.621	\$ 0.655
Energy Opportunities	\$ 0.304	\$ 0.445	\$ 0.584	\$ 0.570	\$ 0.587	\$ 0.595
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ 0.290	\$ 0.359	\$ 0.698	\$ 0.348	\$ 0.350	\$ 0.354
Small Business	\$ 0.361	\$ 0.550	\$ 0.516	\$ 0.566	\$ 0.578	\$ 0.614
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 0.320</b>	<b>\$ 0.479</b>	<b>\$ 0.564</b>	<b>\$ 0.550</b>	<b>\$ 0.571</b>	<b>\$ 0.587</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$ 0.532</b>	<b>\$ 0.739</b>	<b>\$ 0.884</b>	<b>\$ 1.019</b>	<b>\$ 1.082</b>	<b>\$ 1.153</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$ 0.532</b>	<b>\$ 0.739</b>	<b>\$ 0.884</b>	<b>\$ 1.019</b>	<b>\$ 1.082</b>	<b>\$ 1.153</b>

Table D7 – Eversource CT Electric Historical and Cost per Projected Lifetime kWh (2013-2024)

**Table D7**  
**Eversource CT Electric Historical and Cost per Projected Lifetime kWh**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	\$0.016	\$ 0.020	\$ 0.021	\$ 0.016	\$0.017	\$0.044	\$0.050	\$0.063	\$ 0.072	\$ 0.072	\$0.065	\$ 0.072
Residential New Construction	\$0.046	\$ 0.037	\$ 0.044	\$ 0.056	\$0.057	\$ 0.062	\$0.034	\$ 0.028	\$ 0.045	\$ 0.062	\$ 0.062	\$ 0.063
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$0.093	\$ 0.078	\$ 0.072	\$ 0.085	\$ 0.078	\$ 0.079	\$ 0.080	\$ 0.180	\$ 0.234	\$ 0.272	\$0.287	\$ 0.287
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$ 0.033	\$0.020	\$ 0.034	\$ 0.088	\$0.126	\$ 0.122	\$ 0.134	\$0.135	\$ 0.135
HES Income Eligible	\$0.085	\$ 0.116	\$ 0.104	\$ 0.111	\$ 0.080	\$ 0.078	\$ 0.136	\$ 0.179	\$0.298	\$0.476	\$ 0.501	\$ 0.530
Residential Behavior	\$ -	\$ 0.047	\$ 0.025	\$ 0.064	\$ 0.065	\$ 0.009	\$0.032	\$ -	\$ -	\$ 0.126	\$ 0.126	\$ 0.126
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.047</b>	<b>\$0.051</b>	<b>\$0.044</b>	<b>\$0.040</b>	<b>\$0.039</b>	<b>\$0.055</b>	<b>\$0.076</b>	<b>\$0.107</b>	<b>\$0.150</b>	<b>\$0.179</b>	<b>\$0.178</b>	<b>\$0.187</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$0.017	\$0.021	\$0.021	\$0.024	\$0.019	\$0.024	\$0.024	\$0.043	\$0.041	\$0.040	\$0.045	\$0.047
Energy Opportunities	\$0.031	\$0.031	\$ 0.029	\$0.030	\$0.025	\$0.026	\$0.027	\$ 0.040	\$0.054	\$0.080	\$0.082	\$0.083
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.046	\$ 0.032	\$0.053	\$0.048	\$0.049	\$0.067	\$0.050	\$0.057	\$0.113	\$ 0.046	\$ 0.047	\$0.047
Small Business	\$0.041	\$0.040	\$0.038	\$0.041	\$ 0.041	\$0.034	\$0.029	\$0.047	\$0.047	\$ 0.071	\$0.073	\$0.077
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.028</b>	<b>\$0.029</b>	<b>\$0.029</b>	<b>\$ 0.031</b>	<b>\$0.028</b>	<b>\$0.028</b>	<b>\$0.027</b>	<b>\$0.041</b>	<b>\$0.051</b>	<b>\$0.064</b>	<b>\$0.067</b>	<b>\$0.069</b>
<b>TOTAL (includes ISO Load Response)</b>	<b>\$0.043</b>	<b>\$0.045</b>	<b>\$0.043</b>	<b>\$0.043</b>	<b>\$0.041</b>	<b>\$0.044</b>	<b>\$0.051</b>	<b>\$0.071</b>	<b>\$0.088</b>	<b>\$0.113</b>	<b>\$ 0.120</b>	<b>\$0.126</b>
<b>TOTAL (excludes ISO Load Response)</b>	<b>\$ 0.041</b>	<b>\$0.044</b>	<b>\$0.043</b>	<b>\$0.042</b>	<b>\$ 0.041</b>	<b>\$0.043</b>	<b>\$0.051</b>	<b>\$0.071</b>	<b>\$0.088</b>	<b>\$0.113</b>	<b>\$ 0.120</b>	<b>\$0.126</b>

Table D8 – Eversource CT Electric Historical and Projected Annual MMBtu

**Table D8**  
**Eversource CT Electric Historical and Projected Annual MMBtu**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	126,205	137,926	62,254	31,533	35,245	22,723
Residential New Construction	17,010	18,507	31,402	12,812	11,801	11,398
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	157,016	111,579	131,503	107,663	97,622	98,464
HVAC & Domestic Water Heating	27,166	121,425	38,034	96,654	93,170	91,096
HES-Income Eligible	77,185	52,659	60,799	50,064	44,756	41,486
Residential Behavior	41,343	-	-	2,440	2,440	2,440
<b>Subtotal: Residential EE Portfolio</b>	<b>445,924</b>	<b>442,096</b>	<b>323,991</b>	<b>301,165</b>	<b>285,033</b>	<b>267,607</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	87,521	66,263	82,119	79,467	63,316	55,454
Energy Opportunities	433,040	345,437	235,428	211,978	188,890	181,710
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	18,312	9,212	18,406	30,914	30,461	29,710
Small Business	84,685	33,400	114,275	81,635	74,142	67,088
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>623,558</b>	<b>454,312</b>	<b>450,228</b>	<b>403,994</b>	<b>356,808</b>	<b>333,962</b>
<b>TOTAL</b>	<b>1,069,481</b>	<b>896,408</b>	<b>774,219</b>	<b>705,159</b>	<b>641,842</b>	<b>601,569</b>

Table D9 – Eversource CT Electric Historical and Projected Lifetime MMBtu

**Table D9**  
**Eversource CT Electric Historical and Projected Lifetime MMBtu**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	674,120	615,861	227,930	190,276	223,109	162,817
Residential New Construction	328,016	325,378	623,322	257,231	236,017	227,607
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	2,544,409	1,904,384	2,407,806	2,050,427	1,887,087	1,896,867
HVAC & Domestic Water Heating	454,801	2,340,806	564,734	1,452,247	1,399,910	1,368,743
HES-Income Eligible	1,262,624	794,590	942,222	857,810	765,662	716,215
Residential Behavior	106,790	-	-	2,440	2,440	2,440
<b>Subtotal: Residential EE Portfolio</b>	<b>5,370,759</b>	<b>5,981,018</b>	<b>4,766,014</b>	<b>4,810,431</b>	<b>4,514,224</b>	<b>4,374,688</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	1,329,104	978,834	1,083,428	1,106,219	882,391	775,844
Energy Opportunities	4,920,239	3,826,983	2,538,084	1,513,457	1,349,005	1,298,048
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	106,070	58,477	114,087	232,512	229,105	223,436
Small Business	1,063,855	390,938	1,266,198	649,153	589,950	537,795
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>7,419,268</b>	<b>5,255,231</b>	<b>5,001,798</b>	<b>3,501,341</b>	<b>3,050,451</b>	<b>2,835,123</b>
<b>TOTAL</b>	<b>12,790,027</b>	<b>11,236,249</b>	<b>9,767,812</b>	<b>8,311,772</b>	<b>7,564,675</b>	<b>7,209,811</b>

Eversource Electric PMI (2022)

**EVERSOURCE CT ELECTRIC**

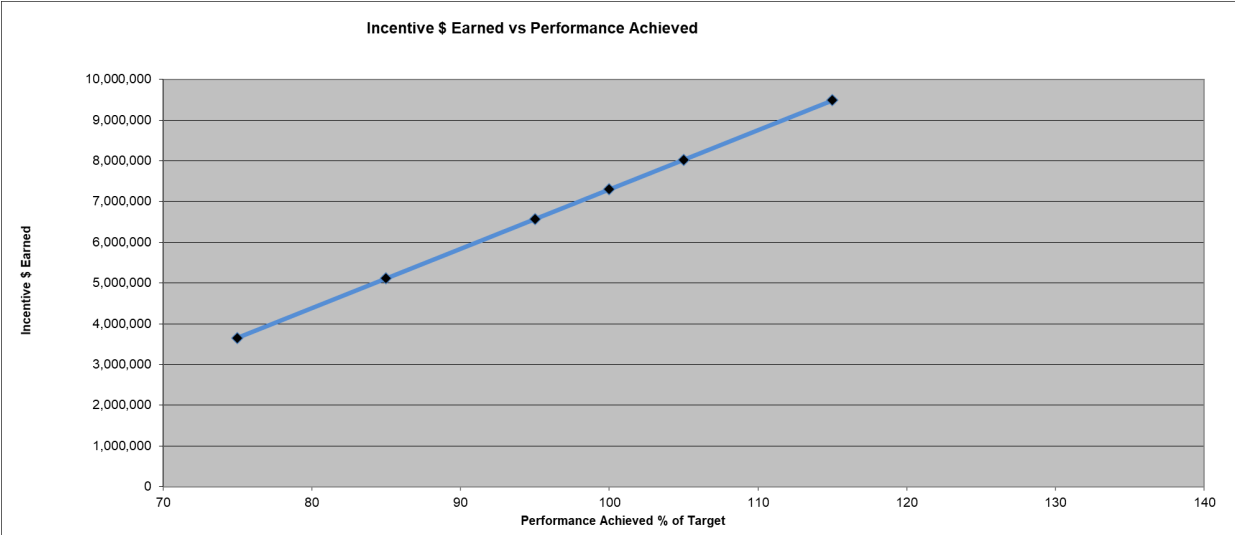
**2022 Management Incentive Performance Indicators and Incentive Matrix**

Eversource CT Electric and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Performance Incentive is **\$7,300,622** and is based on achieving **100%** of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$146,012,442** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$3,650,311
85	3.5%	\$5,110,435
95	4.5%	\$6,570,560
<b>100</b>	<b>5.0%</b>	<b>\$7,300,622</b>
105	5.5%	\$8,030,684
115	6.5%	\$9,490,809

**Maximum  
Incentive Basis  
Budget \$146,012,442  
Goals will be prorated based on  
actual over/under spend of budget.**



**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators					Incentive Metrics			
Residential	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
Residential Programs (Sector Level) Sector Budget	<b>\$60,805</b>					Sum of Modified Utility Benefit from Residential programs	Modified Utility Benefit from Res programs	0.2099	<b>\$1,532,401</b>	
	Retail Products	57,755,243	1,462	-47,398	-2,308		<b>\$131,806,564</b>			
	New Construction	61,325,138	526	-	525,453					
	Home Energy Solutions	80,716,928	1,602	11,954,305	1,281,931					
	HVAC	103,228,948	1,812	6,749,087	1,795,670					
	HES-Income Eligible	35,562,426	620	5,013,641	450,334					
	Behavior	715,000	82	-	-					
	Total	339,303,684	6,103	23,669,635	4,051,079					
	Savings Rate	\$0.07908 /kWh	\$2,509.78 / kW	\$3.21	\$3.37					
	Savings	\$26,830,877	\$15,317,209	\$76,010,247	13,648,231					
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$71,001,400			\$71,001,400	0.2099	\$1,532,401	
Resi Active Demand Response	<b>\$2,840</b>	Resi ADR		13,115	kW					
		Resi ADR Savings	\$2,923,949	Resi ADR Savings Rate	\$222.95	\$/kW	Resi DR Benefit	\$2,923,949	0.0045	\$32,853
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs		\$83,949		Net Benefit Resi DR	\$83,949	0.0045	\$32,853	

**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators					Incentive Metrics			
Residential	\$	LT-kWh		kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$21,962</b>	Electric Savings LTKWh:	80,716,928				Energy Savings included in appropriate sector-level metric			
		Demand Savings kW :	1,602							
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).					Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$73,006</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).					Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$73,006</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).					Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$73,006</b>
Residential New Construction	<b>\$3,786</b>	Electric Savings LTKWh :	61,325,138							
		Demand Savings kW :	526							
		The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).					Increase % of efficient new homes	X% of homes	0.0100	<b>\$73,006</b>

**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators	Incentive Metrics			
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions- Income Eligible	<b>\$16,944</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$73,006</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$73,006</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).	Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$73,006</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2022 through December 31, 2022 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2021 and achieve X% participation.	Achieve X% Participation		0.0200	<b>\$146,012</b>



**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators				Incentive Metrics				
Commercial & Industrial		Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
C&I Programs (Sector Level) Sector Budget	<b>\$64,999</b>						Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$1,273,959</b>
		Energy Conscious Blueprint	323,581,176	4,902	10,200	8,160				
		Energy Opportunities	442,418,762	10,405	20,280	12,168				
		Business and Energy Sustainability	67,536,691	1,625	10,735	6,441				
		Small Business	189,451,484	4,882	12,960	10,368				
		<b>Total</b>	<b>1,022,988,113</b>	<b>21,814</b>	<b>54,175</b>	<b>37,137</b>				
		Savings Rate	\$0.08063 /kWh	\$1,973.49 /kW	\$2.92	\$3.36				
		Savings	\$ 88,006,824	\$ 43,049,808	\$157,985	\$124,846				
		(1) percent of target goal								
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs				\$66,340,257		\$66,340,257	0.1745	<b>\$1,273,959</b>
C&I Active Demand Response	<b>\$4,253</b>	C&I ADR			72,000	kW				
		C&I ADR Savings	\$9,663,342	C&I ADR Savings Rate	\$134.21	\$/kW	C&I DR Benefit	\$9,663,342	0.0111	<b>\$81,037</b>
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs				\$5,410,342	Net Benefit C&I DR	\$5,410,342	0.0111	<b>\$81,037</b>

**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	<b>\$35,333</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of all signed projects	0.0250	<b>\$182,516</b>
Energy Conscious Blueprint	<b>\$13,013</b>	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero	Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	<b>\$146,012</b>
Small Business	<b>\$13,527</b>	Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of signed projects	0.0250	<b>\$182,516</b>
<b>Equitable Distribution</b>	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average)	The Companies will track this data by using 2017-2021 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	<b>\$27,377</b>
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average)			0.00375	<b>\$27,377</b>
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average)			0.00375	<b>\$27,377</b>
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average)			0.00375	<b>\$27,377</b>

**Eversource Electric PMI (2022)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	<b>\$3,126</b>	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).	Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM Minimum Elements	0.0150	<b>\$109,509</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.	Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$73,006</b>
<b>Total of Incentives</b>					<b>1.0000</b>	<b>\$7,300,622</b>

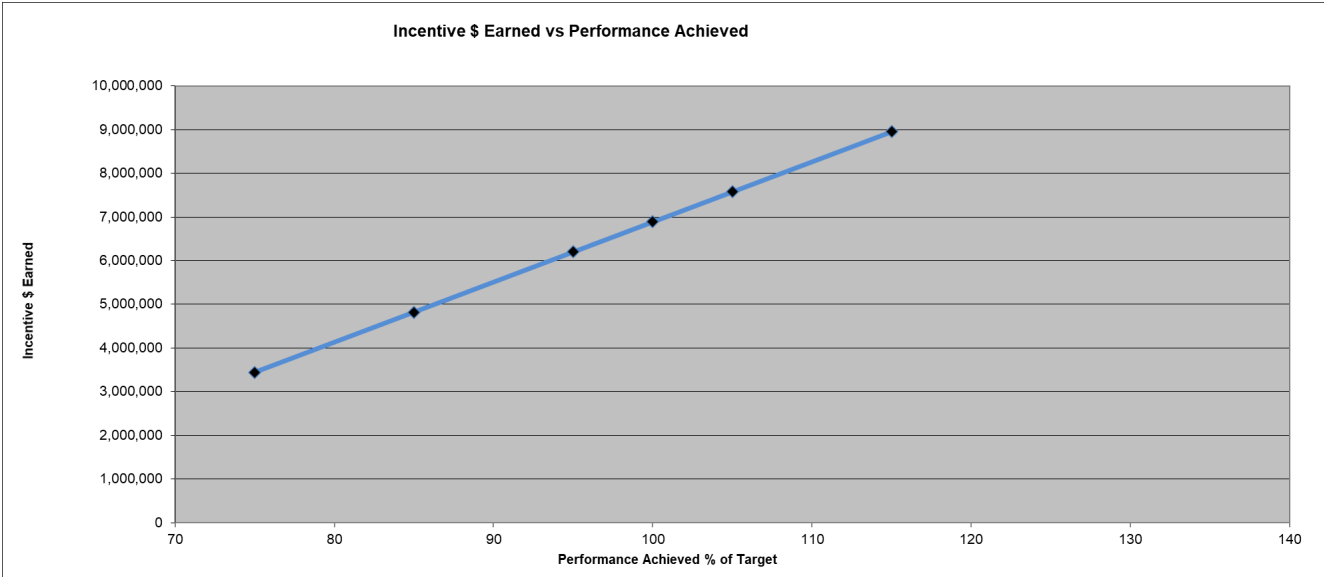
Eversource Electric PMI (2023)

**EVERSOURCE CT ELECTRIC**

Eversource CT Electric and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Performance Incentive is **\$6,888,515** and is based on achieving 100% of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$137,770,298** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

-Performance Incentive Illustration-

Minimum"	"Performance %	Pretax Incentive	Pre-tax Incentive
75	2.5%	\$3,444,257	
85	3.5%	\$4,821,960	
95	4.5%	\$6,199,663	
<b>100</b>	<b>5.0%</b>	<b>\$6,888,515</b>	
105	5.5%	\$7,577,366	
115	6.5%	\$8,955,069	
	Maximum		
	Incentive Basis Budget	\$137,770,298	
	"Goals will be prorated based on		



**Eversource Electric PMI (2023)(continued)**

Sector		Performance Indicators					Incentive Metrics			
Residential	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
Residential Programs (Sector Level) Sector Budget	<b>\$57,667</b>					Sum of Modified Utility Benefit from Res programs	Modified Utility Benefit from Residential programs	0.2099	<b>\$1,445,899</b>	
	Retail Products	63,924,794	1,372	37,179	-1,738					
	New Construction	56,332,844	496	0	479,678					
	Home Energy Solutions	71,729,506	1,293	11,063,804	1,181,508					
	HVAC	99,508,715	1,746	6,505,859	1,730,957					
	HES-Income Eligible	31,689,953	658	4,474,244	405,158					
	Behavior	715,000	82	0	0					
	Total	323,900,811	5,646	22,081,086	3,795,562					
	Savings Rate	\$0.07885 /kWh	\$2,596.72 /kW	\$3.33	\$3.48					
	Savings	\$25,540,619	\$14,661,096	\$73,617,578	\$13,202,007					
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$69,354,579			\$69,354,579	0.2099	\$1,445,899	
Resi Active Demand Response	<b>\$3,082</b>	Resi ADR		14,427	kW					
		Resi ADR Savings	\$3,231,791	Resi ADR Savings Rate	\$224.02	\$/kW	Resi DR Benefit	\$3,231,791	0.0045	\$30,998
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs		\$149,791		Net Benefit Resi DR	\$149,791	0.0045	\$30,998	

**Eversource Electric PMI (2023)(continued)**

Sector		Performance Indicators			Incentive Metrics			
Residential	\$				Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$20,601</b>	Electric Savings LTKWh:	71,729,506		Energy Savings included in appropriate sector-level metric			
		Demand Savings kW :	1,293					
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$68,885</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$68,885</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).			Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$68,885</b>
Residential New Construction	<b>\$3,506</b>	Electric Savings LTKWh :	56,332,844					
		Demand Savings kw :	496					
		The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).			Increase % of efficient new homes	X% of homes	0.0100	<b>\$68,885</b>

**Eversource Electric PMI (2023)(continued)**

Sector		Performance Indicators					Incentive Metrics				
Residential	\$	LT-kWh		kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
Home Energy Solutions- Income Eligible	<b>\$15,884</b>	Electric Savings LTkWh:	31,689,953				Energy Savings included in appropriate sector-level metric				
		Demand Savings kW :	658								
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).						Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$68,885</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).						Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$68,885</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).						Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$68,885</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2023 through December 31, 2023 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2022 and achieve X% participation.					Achieve X% Participation		0.0200	<b>\$137,770</b>	

**Eversource Electric PMI (2023)(continued)**

Sector		Performance Indicators				Incentive Metrics				
Commercial & Industrial	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
C&I Programs (Sector Level) Sector Budget	<b>\$59,526</b>					Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$1,202,046</b>	
	Energy Conscious Blueprint	257,843,456	4,212	12,240	10,200					
	Energy Opportunities	393,947,344	9,265	24,336	16,224					
	Business and Energy Sustainability	66,546,959	1,601	10,578	6,347					
	Small Business	171,973,120	4,431	14,256	13,142					
	<b>Total</b>	<b>890,310,879</b>	<b>19,510</b>	<b>61,410</b>	<b>45,912</b>					
	Savings Rate	\$0.08615 /kWh	\$1,895.22 / kW	\$3.02	\$3.48					
	Savings	\$ 76,698,949	\$ 36,975,830	\$185,187	\$159,820					
(1) percent of target goal										
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs			\$54,493,868		<b>\$54,493,868</b>	0.1745	<b>\$1,202,406</b>	
C&I Active Demand Response	<b>\$4,381</b>	C&I ADR			79,200	kW				
		C&I ADR Savings	\$10,751,288	C&I ADR Savings Rate	\$135.75	\$/kW	C&I DR Benefit	<b>\$10,751,288</b>	0.0111	<b>\$76,463</b>
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs				\$6,370,698	Net Benefit C&I DR	<b>\$6,370,698</b>	0.0111	<b>\$76,463</b>



**Eversource Electric PMI (2023)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	\$32,404	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X% +5%).	Continue to promote comprehensive projects	X% of all signed projects	0.0250	\$172,213
Energy Conscious Blueprint	\$11,494	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero.	Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	\$137,770
Small Business	\$12,527	Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of signed projects	0.0250	\$172,213
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average).	The Companies will track this data by using 2018-2022 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	\$25,832
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average).			0.00375	\$25,832
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average).			0.00375	\$25,832
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average).			0.00375	\$25,832

**Eversource Electric PMI (2023)(continued)**

Sector	Performance Indicators					Incentive Metrics			
Commercial & Industrial	\$	LT-kWh	kW	LT Oil Gas	LT Prop Gas	Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	<b>\$3,101</b>	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).				Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM  Minimum Elements	0.0150	<b>\$103,328</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.				Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$68,885</b>
<b>Total of Incentives</b>								<b>1.0000</b>	<b>\$6,888,515</b>

Eversource Electric PMI (2024)

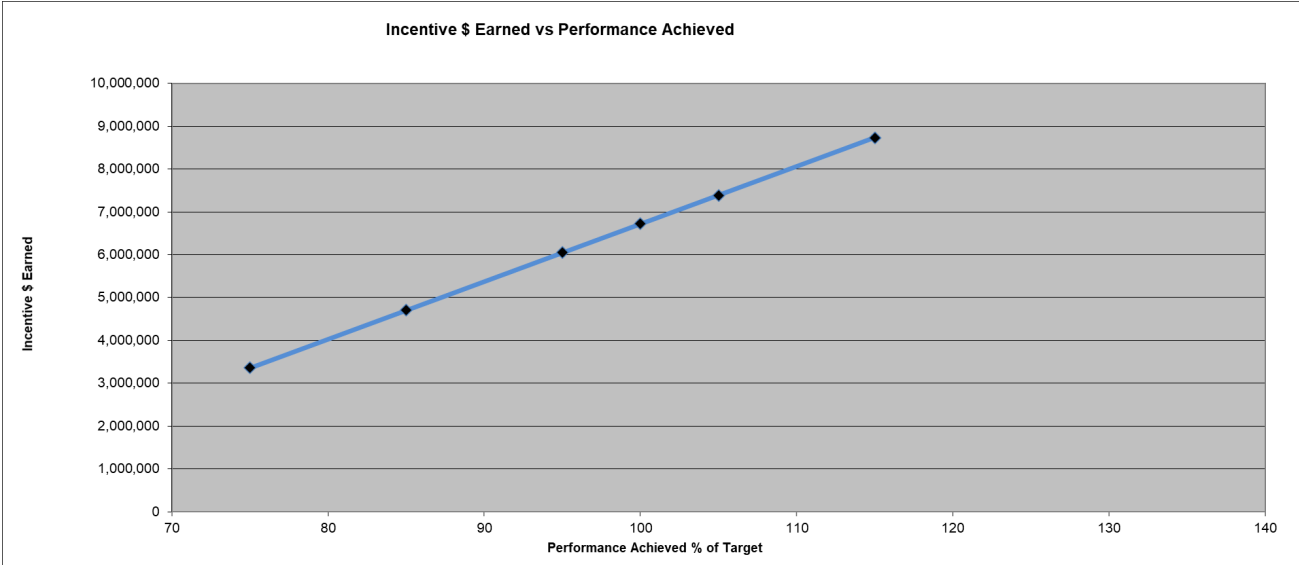
**EVERSOURCE CT ELECTRIC**

Eversource CT Electric and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Performance Incentive is \$6,717,979 and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of \$134,359,581 as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
<b>Minimum</b>		
75	2.5%	\$3,358,990
85	3.5%	\$4,702,585
95	4.5%	\$6,046,181
<b>100</b>	<b>5.0%</b>	<b>\$6,717,979</b>
105	5.5%	\$7,389,777
115	6.5%	\$8,733,373

**Maximum  
Incentive Basis  
Budget \$134,359,581  
Goals will be prorated based on  
actual over/under spend of budget.**



**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators				Incentive Metrics			
Residential	Program Name	LT-kWh	kW	LT Oil Gas	LT Prop Gas	Incentive Metric	Target Goal	Weight	Incentive
Residential Programs (Sector Level) Sector Budget	<b>\$55,902</b>					Sum of Modified Utility Benefit from Res programs	Modified Utility Benefit from Residential programs	0.2099	<b>\$1,410,104</b>
	Retail Products	46,075,123	845	40,438	0		<b>\$124,760,126</b>		
	New Construction	54,351,700	484	0	461,614				
	Home Energy Solutions	71,887,956	1,405	11,130,424	1,181,508				
	HVAC	97,293,324	1,708	6,361,017	1,692,420				
	HES-Income Eligible	28,877,759	541	4,197,256	389,428				
	Behavior	715,000	82	0	0				
	Total	299,200,862	5,064	21,729,134	3,724,970				
	Savings Rate	\$0.07746 /kWh	\$2,636.28 / kW	\$3.45	\$3.58				
	Savings	\$23,175,615	\$13,350,133	\$74,902,009	13,332,370				
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$68,858,156			<b>\$68,858,156</b>	<b>0.2099</b>	<b>\$1,410,104</b>
Resi Active Demand Response	<b>\$3,536</b>	Resi ADR		14,427	kW				
		Resi ADR Savings	\$3,622,394	Resi ADR Savings Rate	\$251.09	\$/kW	Resi DR Benefit	<b>\$3,622,394</b>	0.0045
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs		\$86,294		Net Benefit Resi DR	<b>\$86,294</b>	0.0045	<b>\$30,231</b>

**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators			Incentive Metrics			
Residential	\$				Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$20,631</b>	Electric Savings LTKWh:	71,887,956		Energy Savings included in appropriate sector-level metric			
		Demand Savings kW :	1,405					
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$67,180</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$67,180</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).			Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$67,180</b>
Residential New Construction	<b>\$3,506</b>	Electric Savings LTKWh :	54,551,700					
		Demand Savings kw :	484					
		The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).			<b>Increase % of efficient new homes</b>	<b>X% of homes</b>	0.0100	<b>\$67,180</b>

**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions-Income Eligible	<b>\$15,312</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$67,180</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$67,180</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).	Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$67,180</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2024 through December 31, 2024 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2023 and achieve X% participation.	Achieve X% Participation		0.0200	<b>\$134,360</b>

**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators				Incentive Metrics				
Commercial & Industrial		Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
C&I Programs (Sector Level) Sector Budget	<b>\$57,294</b>					Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$1,172,287</b>	
		Energy Conscious Blueprint	226,478,725	4,068	14,280					12,240
		Energy Opportunities	378,739,228	8,907	28,392					20,280
		Business and Energy Sustainability	65,004,731	1,564	7,738					6,199
		Small Business	156,637,531	4,202	15,509					13,105
		Total	826,860,214	18,742	65,919					51,825
		Savings Rate	\$0.08591 / kWh	\$1,895.22 / kW	\$3.02					\$3.48
		Savings	\$ 71,038,631	\$33,909,340	\$204,837					\$186,059
		(1) percent of target goal								
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs			\$48,044,436		<b>\$48,044,436</b>	0.1745	<b>\$1,172,287</b>	
C&I Active Demand Response	<b>\$4,512</b>	C&I ADR			84,662	kW				
		C&I ADR Savings	\$12,056,104	C&I ADR Savings Rate	\$142.40	\$/kW	C&I DR Benefit	<b>\$12,056,104</b>	0.0111	<b>\$74,570</b>
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs				\$7,544,097	Net Benefit C&I DR	<b>\$7,544,097</b>	0.0111	<b>\$74,570</b>

**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	\$31,573	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of all signed projects	0.0250	\$167,949
Energy Conscious Blueprint	\$10,623	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero.	Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	\$134,360
Small Business	\$12,039	Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of signed projects	0.0250	\$167,949
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average).	The Companies will track this data by using 2019-2023 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	\$25,192
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average).			0.00375	\$25,192
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average).			0.00375	\$25,192
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average).			0.00375	\$25,192



**Eversource Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	\$3,060	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).	Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM Minimum Elements	0.0150	\$100,770
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.	Timely turnaround	Based on 90% of data request and purchase orders	0.0100	\$67,180
<b>Total of Incentives</b>					<b>1.0000</b>	<b>\$6,717,979</b>

**E.4 UNITED ILLUMINATING ELECTRIC TABLES**

United Illuminating Electric Table A1 (2020-2024)

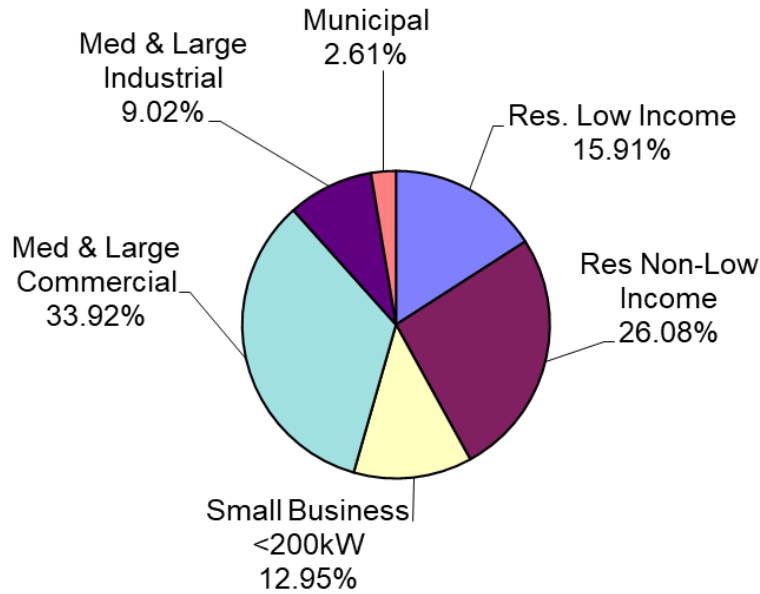
**Table A  
UI Proposed EE Budgets**

UNITED ILLUMINATING ELECTRIC EE BUDGET	2020 UI CT Electric Actual Results 12/31/20	2021 UI CT Electric Proposed Budget 03/01/21	2022 UI CT Electric Proposed Budget 11/01/21	2023 UI CT Electric Proposed Budget 11/01/21	2024 UI CT Electric Proposed Budget 11/01/21
<b>RESIDENTIAL</b>					
Residential Retail Products	\$2,795,488	\$1,834,499	\$761,503	\$ 761,503	\$ 761,503
Residential New Construction	\$423,435	\$620,438	\$622,961	\$ 572,026	\$ 550,424
Home Energy Solutions	\$3,521,888	\$3,600,244	\$3,361,814	\$ 3,104,689	\$ 2,928,056
HVAC & Domestic Water Heating	\$1,322,749	\$1,939,467	\$2,045,313	\$ 1,887,190	\$ 1,822,234
HES-Income Eligible	\$2,076,231	\$4,111,608	\$4,508,473	\$ 4,187,467	\$ 4,048,900
Residential Behavior	\$193,396	\$381,584	\$292,027	\$ 268,665	\$ 247,172
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 10,333,187</b>	<b>\$ 12,487,841</b>	<b>\$ 11,592,091</b>	<b>\$ 10,781,540</b>	<b>\$10,358,289</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>					
Energy Conscious Blueprint	\$2,903,674	\$4,266,953	\$4,349,702	\$4,092,154	\$3,966,855
Energy Opportunities	\$12,357,623	\$7,736,838	\$7,817,861	\$7,324,816	\$7,099,811
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$825,694	\$1,176,686	\$1,157,504	\$1,107,049	\$1,073,152
Small Business	\$3,913,845	\$3,873,853	\$3,817,481	\$3,667,159	\$3,603,264
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$20,000,835</b>	<b>\$17,054,330</b>	<b>\$17,142,548</b>	<b>\$16,191,178</b>	<b>\$15,743,082</b>
<b>OTHER - LOAD MANAGEMENT</b>					
Residential Demand Response	\$417,042	\$2,570,876	\$580,814	\$759,576	\$906,070
C&I Demand Response	\$103,718	\$381,455	\$315,975	\$389,658	\$456,897
<b>Subtotal: Load Management</b>	<b>\$520,761</b>	<b>\$2,952,331</b>	<b>\$896,789</b>	<b>\$1,149,233</b>	<b>\$1,362,967</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>					
Energy Education	\$112,232	\$102,752	\$184,000	\$184,000	\$184,000
Workforce Development	\$77,660	\$141,467	\$198,400	\$198,400	\$198,400
Community Outreach	\$174,462	\$327,634	\$192,000	\$192,000	\$192,000
Customer Engagement Initiative	\$ -	\$275,000	\$80,000	\$80,000	\$80,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$364,354</b>	<b>\$846,852</b>	<b>\$654,400</b>	<b>\$654,400</b>	<b>\$654,400</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>					
Residential Loan Program (Includes ECLF and OBR)	\$156,932	\$150,799	\$150,799	\$150,799	\$150,799
C&I Financing Support	\$ -	\$85,000	\$85,000	\$85,000	\$85,000
Research, Development & Demonstration	\$25,859	\$151,250	\$151,250	\$151,250	\$151,250
<b>Subtotal: Programs/Requirements</b>	<b>\$182,790</b>	<b>\$387,049</b>	<b>\$387,049</b>	<b>\$387,049</b>	<b>\$387,049</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>					
Administration	\$248,807	\$273,109	\$187,520	\$280,639	\$280,639
Marketing Plan	\$16,987	\$121,400	\$121,400	\$121,400	\$121,400
Planning	\$226,791	\$140,393	\$173,820	\$140,393	\$140,393
Evaluation Measurement and Verification	\$478,388	\$480,000	\$720,000	\$720,000	\$720,000
Evaluation Administrator	\$52,475	\$52,635	\$71,057	\$71,057	\$71,057
Information Technology	\$156,309	\$458,164	\$1,135,164	\$666,164	\$458,164
Energy Efficiency Board Consultants	\$104,000	\$104,000	\$128,000	\$128,000	\$128,000
Audits - Financial and Operational	\$3,904	\$24,000	\$24,000	\$24,000	\$24,000
Performance Management Incentive (PMI)	\$993,299	\$1,584,066	\$1,650,539	\$1,554,600	\$1,511,319
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$2,280,959</b>	<b>\$3,237,767</b>	<b>\$4,211,500</b>	<b>\$3,706,252</b>	<b>\$3,454,971</b>
<b>TOTAL</b>	<b>\$ 33,682,887</b>	<b>\$ 36,966,170</b>	<b>\$ 34,884,377</b>	<b>\$ 32,869,651</b>	<b>\$ 31,960,758</b>

United Illuminating Electric Table A Pie Chart (2022)

**THE UNITED ILLUMINATING COMPANY  
2022 ENERGY EFFICIENCY BUDGET PIES  
TABLE A**

**EE Budget By Customer Class**



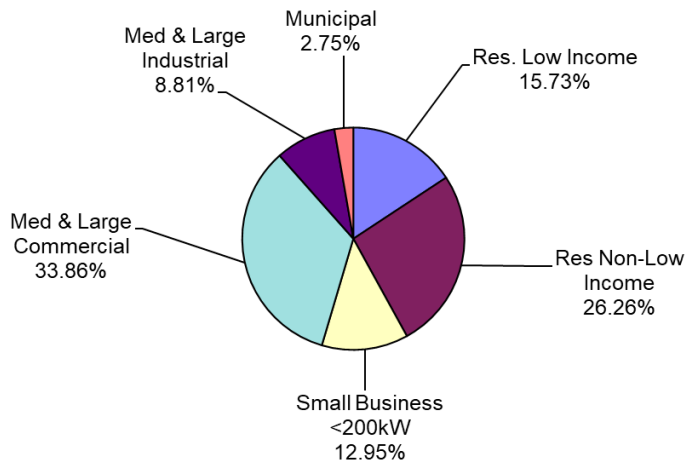
Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 4,874,675	13.97%	15.91%	13.07%	2.84%
Res. Non Income-Eligible	\$ 7,990,469	22.91%	26.08%	28.92%	-2.84%
<b>Residential Subtotal</b>	<b>\$ 12,865,144</b>	<b>36.88%</b>	<b>41.98%</b>	<b>41.99%</b>	<b>-0.01%</b>
Small Business <200kW	\$ 3,817,481	10.94%	12.46%	21.14%	-8.68%
Med & Large Commercial	\$ 10,395,388	29.80%	33.92%	24.71%	9.21%
Med & Large Industrial	\$ 2,765,014	7.93%	9.02%	7.84%	1.18%
Municipal	\$ 800,000	2.29%	2.61%	4.32%	-1.71%
<b>C&amp;I Subtotal</b>	<b>\$ 17,777,883</b>	<b>50.96%</b>	<b>58.02%</b>	<b>58.01%</b>	<b>0.01%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$ 30,643,027</b>	<b>87.84%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>0.00%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$ 4,241,350	12.16%	\$ 4,241,350	12.16%	\$ 4,241,350
<b>Other Expenditures Subtotal</b>	<b>\$ 4,241,350</b>	<b>12.16%</b>	<b>\$ 4,241,350</b>	<b>12.16%</b>	<b>\$ 4,241,350</b>
<b>Energy Efficiency Total</b>	<b>\$ 34,884,377</b>	<b>100%</b>			

Totals may vary due to rounding.  
Please see attached Budget Allocation Table.

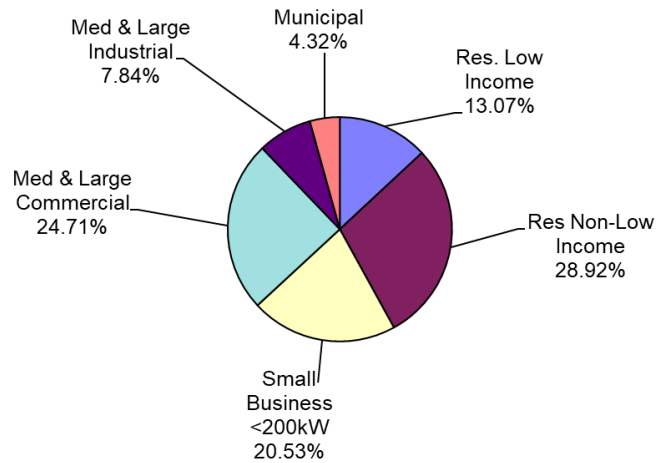
United Illuminating Electric Table A Pie Chart (2023)

**THE UNITED ILLUMINATING COMPANY  
2023 ENERGY EFFICIENCY BUDGET PIES  
TABLE A**

**EE Budget By Customer Class**



**EE Revenue By Customer Class**



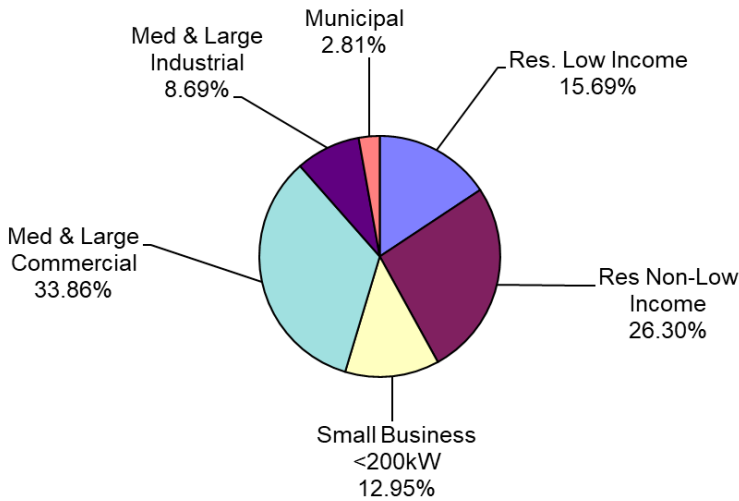
Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 4,582,414	13.94%	15.73%	13.07%	2.66%
Res. Non Income-Eligible	\$ 7,650,940	23.28%	26.26%	28.92%	-2.66%
<b>Residential Subtotal</b>	<b>\$ 12,233,354</b>	<b>37.22%</b>	<b>41.99%</b>	<b>41.99%</b>	<b>0.00%</b>
Small Business <200kW	\$ 3,667,159	11.16%	12.59%	21.14%	-8.55%
Med & Large Commercial	\$ 9,866,024	30.02%	33.86%	24.71%	9.15%
Med & Large Industrial	\$ 2,567,013	7.81%	8.81%	7.84%	0.97%
Municipal	\$ 800,000	2.43%	2.75%	4.32%	-1.57%
<b>C&amp;I Subtotal</b>	<b>\$ 16,900,195</b>	<b>51.42%</b>	<b>58.01%</b>	<b>58.01%</b>	<b>0.00%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$ 29,133,550</b>	<b>88.63%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>0.00%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$ 3,736,102	11.37%			
<b>Other Expenditures Subtotal</b>	<b>\$ 3,736,102</b>	<b>11.37%</b>			
<b>Energy Efficiency Total</b>	<b>\$ 32,869,651</b>	<b>100%</b>			

Totals may vary due to rounding.  
Please see attached Budget Allocation Table.

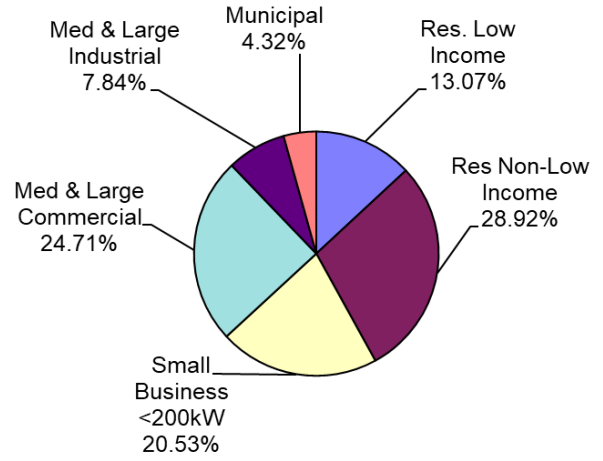
United Illuminating Electric Table A Pie Chart (2024)

**THE UNITED ILLUMINATING COMPANY  
2024 ENERGY EFFICIENCY BUDGET PIES  
TABLE A**

**EE Budget By Customer Class**



**EE Revenue By Customer Class**



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 4,466,697	13.98%	15.69%	13.07%	2.62%
Res. Non Income-Eligible	\$ 7,489,900	23.43%	26.30%	28.92%	-2.62%
<b>Residential Subtotal</b>	<b>\$ 11,956,597</b>	<b>37.41%</b>	<b>41.99%</b>	<b>41.99%</b>	<b>0.00%</b>
Small Business <200kW	\$ 3,603,264	11.27%	12.65%	21.14%	-8.49%
Med & Large Commercial	\$ 9,640,839	30.16%	33.86%	24.71%	9.15%
Med & Large Industrial	\$ 2,475,236	7.74%	8.69%	7.84%	0.85%
Municipal	\$ 800,000	2.50%	2.81%	4.32%	-1.51%
<b>C&amp;I Subtotal</b>	<b>\$ 16,519,339</b>	<b>51.69%</b>	<b>58.01%</b>	<b>58.01%</b>	<b>0.00%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$ 28,475,936</b>	<b>89.10%</b>	<b>100.00%</b>	<b>100.00%</b>	<b>0.00%</b>
<b>Other Expenditures</b>					
Other Expenditures	\$ 3,484,821	10.90%			
<b>Other Expenditures Subtotal</b>	<b>\$ 3,484,821</b>	<b>10.90%</b>			
<b>Energy Efficiency Total</b>	<b>\$ 31,960,758</b>	<b>100%</b>			

Totals may vary due to rounding.  
Please see attached Budget Allocation Table.

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 United Illuminating Electric Table A Budget Allocation (2022-2024)

Table A Pie Sector Allocation			
	Residential	C&I	Other
<b>OTHER - LOAD MANAGEMENT</b>			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	80%	20%	0%
Workforce Development	50%	50%	0%
Community Outreach	50%	50%	0%
Customer Engagement Initiative	80%	20%	0%
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	0%	0%	100%
Marketing Plan	80%	20%	0%
Planning	0%	0%	100%
Evaluation Measurement and Verification	0%	0%	100%
Evaluation Administrator	0%	0%	100%
Information Technology	0%	0%	100%
Energy Efficiency Board Consultants	0%	0%	100%
Audit - Financial and Operational	0%	0%	100%
Performance Management Incentive	0%	0%	100%
<i>Note: Core Residential and C&amp;I programs that produce savings are allocated 100% to the Residential and C&amp;I sectors, respectively. Other programs budgets are allocated to both Residential and C&amp;I sectors based on an estimated percentage of the sector that those dollars will directly benefit by the percentages above.</i>			

Table B – United Illuminating Electric Costs and Benefits (2022)

2022 United Illuminating	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test
Retail Products	\$761,503	\$761,503	\$2,371,299	\$2,157,535	\$2,284,732	\$3,074,916	2.83	3.00	1.30
New Construction	\$622,961	\$622,961	\$2,392,961	\$1,985,728	\$2,998,442	\$3,563,386	3.19	4.81	1.49
Home Energy Solutions	\$1,602,309	\$3,361,814	\$3,979,919	\$1,505,835	\$7,995,194	\$11,081,989	0.94	2.38	2.78
HVAC	\$2,045,313	\$2,045,313	\$5,607,499	\$2,269,243	\$6,426,907	\$8,681,294	1.11	3.14	1.55
HES - Income Eligible	\$2,174,888	\$4,508,473	\$4,508,473	\$795,693	\$7,180,871	\$13,420,789	0.37	1.59	2.98
Behavior	\$292,027	\$292,027	\$292,027	\$437,147	\$437,147	\$734,135	1.50	1.50	2.51
<b>Subtotal: Residential EE Portfolio</b>	<b>\$7,499,001</b>	<b>\$11,592,091</b>	<b>\$19,152,177</b>	<b>\$9,151,181</b>	<b>\$27,323,294</b>	<b>\$40,556,508</b>	<b>1.22</b>	<b>2.36</b>	<b>2.12</b>
Energy Conscious Blueprint	\$4,349,702	\$4,349,702	\$8,082,782	\$12,659,727	\$12,659,727	\$18,016,561	2.91	2.91	2.23
Energy Opportunities	\$7,817,861	\$7,817,861	\$14,914,263	\$11,081,825	\$11,100,658	\$16,562,040	1.42	1.42	1.11
BES	\$1,157,504	\$1,157,504	\$1,877,337	\$2,333,565	\$2,333,565	\$3,310,945	2.02	2.02	1.76
Small Business	\$3,817,481	\$3,817,481	\$7,899,953	\$5,730,628	\$5,753,462	\$8,444,463	1.50	1.51	1.07
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$17,142,548</b>	<b>\$17,142,548</b>	<b>\$32,774,334</b>	<b>\$31,805,745</b>	<b>\$31,847,412</b>	<b>\$46,334,010</b>	<b>1.86</b>	<b>1.86</b>	<b>1.41</b>
Demand Response - Res	\$580,814	\$580,814	-	\$944,744	\$944,744	\$944,744	-	-	-
Demand Response - C&I	\$315,975	\$315,975	-	\$328,790	\$328,790	\$328,790	-	-	-
<b>Subtotal: Demand Response</b>	<b>\$896,789</b>	<b>\$896,789</b>	<b>-</b>	<b>\$1,273,533</b>	<b>\$1,273,533</b>	<b>\$1,273,533</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>\$6,149,738</b>	<b>\$6,149,738</b>	<b>\$6,149,738</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$30,791,287</b>	<b>\$34,884,377</b>	<b>\$58,076,250</b>	<b>\$40,956,926</b>	<b>\$59,170,706</b>	<b>\$86,890,519</b>	<b>1.33</b>	<b>1.70</b>	<b>1.50</b>

Table B – United Illuminating Electric Costs and Benefits (2022) (continued)

2022 United Illuminating	Quantities		Electric Savings			Electric Cost Rates			
	No. of Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr
<b>Residential</b>									
Retail Products	80,563	Bulbs, Fixtures	2,348,578	14,650,469	664	\$0.3242	\$0.0520	\$1,146	\$184
New Construction	775	No. of Units	444,514	11,112,841	257	\$1.4014	\$0.0561	\$2,420	\$97
Home Energy Solutions	5,435	No. of Ptcps.	853,224	9,661,738	266	\$1.8779	\$0.1658	\$6,033	\$533
HVAC	14,739	No. of Ptcps.	939,243	14,914,977	338	\$2.1776	\$0.1371	\$6,046	\$381
HES - Income Eligible	5,255	Customers	962,644	7,589,497	160	\$2.2593	\$0.2866	\$13,585	\$1,723
Behavior	35,000	Customers	2,240,000	4,480,000	-	\$0.1304	\$0.0652	-	-
<b>Subtotal: Residential EE Portfolio</b>			<b>7,788,202</b>	<b>62,409,522</b>	<b>1,686</b>	<b>\$0.9629</b>	<b>\$0.1202</b>	<b>\$4,449</b>	<b>\$555</b>
<b>Commercial &amp; Industrial</b>									
Energy Conscious Blueprint	131	Projects	8,588,270	123,311,597	1,063	\$0.5065	\$0.0353	\$4,090	\$285
Energy Opportunities	606	Projects	13,733,619	101,458,007	1,077	\$0.5692	\$0.0771	\$7,260	\$983
BES	90	Projects	2,347,977	18,169,653	441	\$0.4930	\$0.0637	\$2,624	\$339
Small Business	225	Projects	6,562,191	50,641,679	715	\$0.5817	\$0.0754	\$5,339	\$692
<b>Subtotal: C&amp;I EE Portfolio</b>	-	-	<b>31,232,057</b>	<b>293,580,936</b>	<b>3,296</b>	<b>\$0.5489</b>	<b>\$0.0584</b>	<b>\$5,200</b>	<b>\$553</b>
<b>Load Response</b>									
Demand Response - Residential	5,904	-	-	-	4,724	-	-	-	-
Demand Response - C&I	29	-	-	-	2,008	-	-	-	-
<b>Subtotal: Demand Response</b>	-	-	-	-	<b>6,731</b>	-	-	-	-
<b>Subtotal: Other</b>	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	-	-	<b>39,020,259</b>	<b>355,990,458</b>	<b>4,982</b>	<b>\$0.7891</b>	<b>\$0.086</b>	<b>6,180</b>	<b>\$677</b>

2022 United Illuminating	Oil/Propane Savings				MMBtu Savings				Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>										
Retail Products	-9,381	-7,727	3,166	38,209	7,004	52,420	\$108.73	\$14.53	775	5,970
New Construction	-	-	12,241	306,033	2,635	65,878	\$236.41	\$9.46	271	6,769
Home Energy Solutions	94,676	1,911,611	5,502	115,063	16,545	308,606	\$96.84	\$5.19	1,646	30,990
HVAC	68,192	1,015,424	18,173	261,268	14,323	215,596	\$142.80	\$9.49	1,455	21,943
HES - Income Eligible	84,365	1,797,963	9,146	191,374	15,821	292,741	\$137.46	\$7.43	1,560	29,280
Behavior	-	-	-	-	7,645	15,290	\$38.20	\$19.10	859	1,719
<b>Subtotal: Residential EE Portfolio</b>	<b>237,852</b>	<b>4,717,271</b>	<b>48,228</b>	<b>911,947</b>	<b>63,974</b>	<b>950,530</b>	<b>\$117.22</b>	<b>\$7.89</b>	<b>6,566</b>	<b>96,671</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	-	-	-	-	29,312	420,862	\$148.39	\$10.34	3,295	47,310
Energy Opportunities	-	-	558	5,577	46,924	346,786	\$166.61	\$22.54	5,274	38,971
BES	-	-	-	-	8,014	62,013	\$144.44	\$18.67	901	6,971
Small Business	-	-	378	6,804	22,431	173,461	\$170.19	\$22.01	2,521	19,485
<b>Subtotal: C&amp;I EE Portfolio</b>	-	-	<b>936</b>	<b>12,381</b>	<b>106,680</b>	<b>1,003,122</b>	<b>\$160.69</b>	<b>\$17.09</b>	<b>11,990</b>	<b>112,736</b>
<b>Load Response</b>										
Demand Response - RES	-	-	-	-	-	-	-	-	-	-
Demand Response - C&I	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Demand Response</b>	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Other</b>	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>237,852</b>	<b>4,717,271</b>	<b>49,164</b>	<b>924,328</b>	<b>170,654</b>	<b>1,953,653</b>	<b>\$180.43</b>	<b>\$15.76</b>	<b>18,556</b>	<b>209,407</b>



Table B – United Illuminating Electric Costs and Benefits (2023)

2023 United Illuminating	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test
Retail Products	\$762	\$762	\$2,478	2,183	2,329	3,131	2.87	3.06	1.26
New Construction	\$572	\$572	\$2,054	1,641	2,574	3,048	2.87	4.50	1.48
Home Energy Solutions	\$1,777	\$3,105	\$3,671	1,583	6,608	9,129	0.89	2.13	2.49
HVAC	\$1,887	\$1,887	\$5,223	2,101	6,149	8,266	1.11	3.26	1.58
HES - Income Eligible	\$2,129	\$4,187	\$4,187	703	6,543	12,082	0.33	1.56	2.89
Behavior	\$269	\$269	\$269	425	425	695	1.58	1.58	2.59
<b>Subtotal: Residential EE Portfolio</b>	<b>\$7,395</b>	<b>\$10,782</b>	<b>\$17,882</b>	<b>8,635</b>	<b>24,628</b>	<b>36,351</b>	<b>1.17</b>	<b>2.28</b>	<b>2.03</b>
Energy Conscious Blueprint	\$4,092	\$4,092	\$7,411	10,794	10,794	15,220	2.64	2.64	2.05
Energy Opportunities	\$7,325	\$7,325	\$13,766	9,493	9,513	14,069	1.30	1.30	1.02
BES	\$1,107	\$1,107	\$1,739	2,012	2,012	2,844	1.82	1.82	1.63
Small Business	\$3,667	\$3,667	\$7,297	5,071	5,095	7,416	1.38	1.39	1.02
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$16,191</b>	<b>\$16,191</b>	<b>\$30,213</b>	<b>27,370</b>	<b>27,413</b>	<b>39,548</b>	<b>1.69</b>	<b>1.69</b>	<b>1.31</b>
Demand Response - Res	\$760	\$760	\$760	1,145	1,145	1,145	1.51	1.51	1.51
Demand Response - C&I	\$390	\$390	\$390	493	493	493	1.26	1.26	1.26
<b>Subtotal: Demand Response</b>	<b>\$1,149</b>	<b>\$1,149</b>	<b>\$1,149</b>	<b>\$1,637</b>	<b>\$1,637</b>	<b>\$1,637</b>			
<b>Subtotal: Other</b>	<b>\$4,748</b>	<b>\$4,748</b>	<b>\$4,748</b>						
<b>TOTAL</b>	<b>\$29,483</b>	<b>\$32,870</b>	<b>\$53,991</b>	<b>37,642</b>	<b>53,678</b>	<b>77,537</b>	<b>1.28</b>	<b>1.63</b>	<b>1.44</b>

Table B – United Illuminating Electric Costs and Benefits (2023) (continued)

2023 United Illuminating	Quantities		Electric Savings			Electric Cost Rates			
	No. of Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr
<b>Residential</b>									
Retail Products	78,803	Bulbs, Fixtures	2,383	15,414	669	\$0.320	\$0.049	\$1,137	\$176
New Construction	659	No. of Units	368	9,191	213	\$1.556	\$0.062	\$2,689	\$108
Home Energy Solutions	6,223	No. of Ptcps.	1,009	10,978	258	\$1.762	\$0.162	\$6,898	\$634
HVAC	13,801	No. of Ptcps.	879	13,966	316	\$2.146	\$0.135	\$5,964	\$376
HES - Income Eligible	4,636	Customers	849	6,696	141	\$2.506	\$0.318	\$15,071	\$1,912
Behavior	33,250	Customers	2,128	4,256	0	\$0.126	\$0.063		
<b>Subtotal: Residential EE Portfolio</b>			<b>7,616</b>	<b>60,500</b>	<b>1,598</b>	<b>\$0.971</b>	<b>\$0.122</b>	<b>\$4,629</b>	<b>\$583</b>
<b>Commercial &amp; Industrial</b>									
Energy Conscious Blueprint	116	Projects	7,412	106,428	918	\$0.552	\$0.038	\$4,459	\$311
Energy Opportunities	551	Projects	11,792	88,035	933	\$0.621	\$0.083	\$7,847	\$1,051
BES	66	Projects	2,057	15,976	371	\$0.538	\$0.069	\$2,980	\$384
Small Business	216	Projects	5,877	45,059	642	\$0.624	\$0.081	\$5,716	\$745
<b>Subtotal: C&amp;I EE Portfolio</b>	-	-	<b>27,139</b>	<b>255,498</b>	<b>2,864</b>	<b>\$0.597</b>	<b>\$0.063</b>	<b>\$5,653</b>	<b>\$600</b>
<b>Load Response</b>									
Demand Response - Residential	7,103	No. of Ptcps.	-	-	5,683	\$-	\$-	\$134	\$134
Demand Response - C&I	43	New Ptcps.	-	-	2,008	\$-	\$-	\$194	\$194
<b>Subtotal: Demand Response</b>	-	-	-	-	7,690	\$-	\$-	\$-	\$-
<b>Subtotal: Other</b>	-	-	-	-	-	\$-	\$-	\$-	\$-
<b>TOTAL</b>	-	-	<b>34,755</b>	<b>315,998</b>	<b>12,152</b>	<b>\$0.848</b>	<b>\$0.093</b>	<b>\$2,426</b>	<b>\$267</b>

2023 United Illuminating	Oil/Propane Savings				MMBtu Savings				Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>										
Retail Products	-8,901	-5,973	3,435	41,042	7,212	55,527	\$106	\$14	800	6,330
New Construction	-	-	10,953	273,819	2,255	56,375	\$254	\$10	231	5,768
Home Energy Solutions	74,028	1,494,702	1,239	25,903	13,824	247,134	\$225	\$13	1,368	24,878
HVAC	63,852	950,795	17,016	244,639	13,411	201,874	\$141	\$9	1,362	20,546
HES - Income Eligible	74,431	1,586,251	8,069	168,840	13,958	258,270	\$300	\$16	1,376	25,833
Behavior	-	-	-	-	7,263	14,526	\$37	\$18	816	1,633
<b>Subtotal: Residential EE Portfolio</b>	<b>203,409</b>	<b>4,025,775</b>	<b>40,711</b>	<b>754,242</b>	<b>57,923</b>	<b>833,706</b>	<b>\$186</b>	<b>\$13</b>	<b>5,954</b>	<b>84,987</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	-	-	-	-	25,298	363,238	\$162	\$11	2,844	40,832
Energy Opportunities	-	-	558	5,577	40,298	300,974	\$182	\$24	4,529	33,821
BES	-	-	-	-	7,021	54,527	\$158	\$20	789	6,129
Small Business	-	-	378	6,804	20,092	154,407	\$183	\$24	2,258	17,343
<b>Subtotal: C&amp;I EE Portfolio</b>	-	-	<b>936</b>	<b>12,381</b>	<b>92,709</b>	<b>873,146</b>	<b>\$175</b>	<b>\$19</b>	<b>10,420</b>	<b>98,126</b>
<b>Load Response</b>										
Demand Response - RES	-	-	-	-	-	-	-	-	-	-
Demand Response - C&I	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Demand Response</b>	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Other</b>	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>203,409</b>	<b>4,025,775</b>	<b>41,647</b>	<b>766,623</b>	<b>150,633</b>	<b>1,706,852</b>	<b>\$218</b>	<b>\$19</b>	<b>16,374</b>	<b>183,113</b>

Table B – United Illuminating Electric Costs and Benefits (2024)

2024 United Illuminating	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test
Retail Products	\$762	\$762	\$2,371	\$2,008	\$2,140	\$3,564	2.64	2.81	1.50
New Construction	\$550	\$550	\$2,629	\$1,528	\$2,430	\$2,856	2.78	4.42	1.09
Home Energy Solutions	\$1,693	\$2,928	\$3,454	\$1,456	\$6,288	\$8,772	0.86	2.15	2.54
HVAC	\$1,822	\$1,822	\$5,158	\$2,028	\$6,217	\$8,333	1.11	3.41	1.62
HES - Income Eligible	\$2,071	\$4,049	\$4,049	\$638	\$6,436	\$11,755	0.31	1.59	2.90
Behavior	\$247	\$247	\$247	\$395	\$395	\$633	1.60	1.60	2.56
<b>Subtotal: Residential EE Portfolio</b>	<b>\$7,146</b>	<b>\$10,358</b>	<b>\$17,908</b>	<b>\$8,053</b>	<b>\$23,906</b>	<b>\$35,913</b>	<b>1.13</b>	<b>2.31</b>	<b>2.01</b>
Energy Conscious Blueprint	\$3,967	\$3,967	\$7,160	\$9,922	\$9,922	\$13,821	2.50	2.50	1.93
Energy Opportunities	\$7,100	\$7,100	\$13,316	\$8,936	\$8,957	\$13,087	1.26	1.26	0.98
BES	\$1,073	\$1,073	\$1,672	\$1,595	\$1,595	\$2,238	1.49	1.49	1.34
Small Business	\$3,603	\$3,603	\$7,137	\$4,877	\$4,901	\$7,048	1.35	1.36	0.99
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$15,743</b>	<b>\$15,743</b>	<b>\$29,285</b>	<b>\$25,330</b>	<b>\$25,375</b>	<b>\$36,194</b>	<b>1.61</b>	<b>1.61</b>	<b>1.24</b>
Demand Response - Res	\$906	\$906	\$906	\$1,375	\$1,375	\$1,375	1.52	1.52	1.52
Demand Response - C&I	\$457	\$457	\$457	\$706	\$706	\$706	1.55	1.55	1.55
<b>Subtotal: Demand Response</b>	<b>\$1,363</b>	<b>\$1,363</b>	<b>\$1,363</b>	<b>\$2,081</b>	<b>\$2,081</b>	<b>\$2,081</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Subtotal: Other</b>	<b>\$4,496</b>	<b>\$4,496</b>	<b>\$4,496</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$28,749</b>	<b>\$31,961</b>	<b>\$53,052</b>	<b>35,464</b>	<b>51,362</b>	<b>74,189</b>	<b>1.23</b>	<b>1.61</b>	<b>1.40</b>

Table B – United Illuminating Electric Costs and Benefits (2024) (continued)

2024 United Illuminating	Quantities		Electric Savings			Electric Cost Rates			
	No. of Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/LT-kWh	Electric Demand Cost \$/kW	Electric Demand Cost \$/kW-yr
<b>Residential</b>									
Retail Products	77,663	Bulbs, Fixtures	2,305	14,564	660	\$0.330	\$0.052	\$1,154	\$183
New Construction	630	No. of Units	332	8,295	204	\$1.659	\$0.066	\$2,705	\$108
Home Energy Solutions	5,788	No. of Ptcps.	938	10,210	240	\$1.805	\$0.166	\$7,067	\$649
HVAC	13,801	No. of Ptcps.	879	13,966	301	\$2.072	\$0.130	\$6,059	\$382
HES - Income Eligible	4,293	Customers	771	6,197	130	\$2.686	\$0.334	\$15,958	\$1,986
Behavior	31,587	Customers	2,022	4,043	-	\$0.122	\$0.061	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	-	Bulbs, Fixtures	7,248	57,274	1,534	\$0.986	\$0.125	\$4,659	\$590
<b>Commercial &amp; Industrial</b>									
Energy Conscious Blueprint	112	Projects	6,925	99,427	857	\$0.573	\$0.040	\$4,627	\$322
Energy Opportunities	533	Projects	11,189	84,006	892	\$0.635	\$0.085	\$7,961	\$1,060
BES	67	Projects	1,685	13,067	277	\$0.637	\$0.082	\$3,878	\$500
Small Business	212	Projects	5,725	43,890	625	\$0.629	\$0.082	\$5,765	\$752
<b>Subtotal: C&amp;I EE Portfolio</b>	-	Projects	25,524	240,390	2,651	\$0.617	\$0.065	\$5,939	\$631
<b>Load Response</b>									
Demand Response - Residential	8,374	8,373.92	-	-	6,699	\$ -	\$ -	\$6,699	\$6,699
Demand Response - C&I	61	60.89	-	-	4,180	\$ -	\$ -	\$4,180	\$4,180
<b>Subtotal: Demand Response</b>	-	-	-	-	10,879	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Other</b>	-	-	-	-	-	\$ -	\$ -	\$ -	\$ -
<b>TOTAL</b>	-	-	<b>32,772</b>	<b>297,665</b>	<b>15,063</b>	<b>\$0.877</b>	<b>\$0.097</b>	<b>\$1,909</b>	<b>\$210</b>

2024 United Illuminating	Oil/Propane Savings				MMBtu Savings				Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>										
Retail Products	-8,989	-6,944	3,180	38,237	6,912	52,236	\$110	\$15	766	5,951
New Construction	-	-	10,308	257,712	2,074	51,846	\$265	\$11	212	5,292
Home Energy Solutions	68,851	1,390,174	1,152	24,092	12,857	229,852	\$228	\$13	1,273	23,138
HVAC	63,852	950,795	17,016	244,639	13,411	201,874	\$136	\$9	1,362	20,546
HES - Income Eligible	71,489	1,523,562	7,750	162,167	13,255	247,263	\$305	\$16	1,311	24,754
Behavior	0	0	0	0	6,900	13,799	\$36	\$18	776	1,551
<b>Subtotal: Residential EE Portfolio</b>	195,203	3,857,587	39,407	726,846	55,408	796,869	\$187	\$13	5,699	81,232
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	-	-	-	-	23,634	339,343	\$168	\$12	2,657	38,146
Energy Opportunities	-	-	558	5,577	38,239	287,223	\$186	\$25	4,297	32,275
BES	-	-	-	-	5,752	44,599	\$187	\$24	647	5,013
Small Business	-	-	378	6,804	19,573	150,418	\$184	\$24	2,199	16,895
<b>Subtotal: C&amp;I EE Portfolio</b>	-	-	936	12,381	87,198	821,583	\$181	\$19	9,800	92,329
<b>Load Response</b>										
Demand Response - RES	-	-	-	-	-	-	\$ -	\$ -	-	-
Demand Response - C&I	-	-	-	-	-	-	\$ -	\$ -	-	-
<b>Subtotal: Demand Response</b>	-	-	-	-	-	-	\$ -	\$ -	-	-
<b>Subtotal: Other</b>	195,203	3,857,587	40,342	739,227	142,607	1,618,452	\$224	\$20	15,499	173,562
<b>TOTAL</b>										

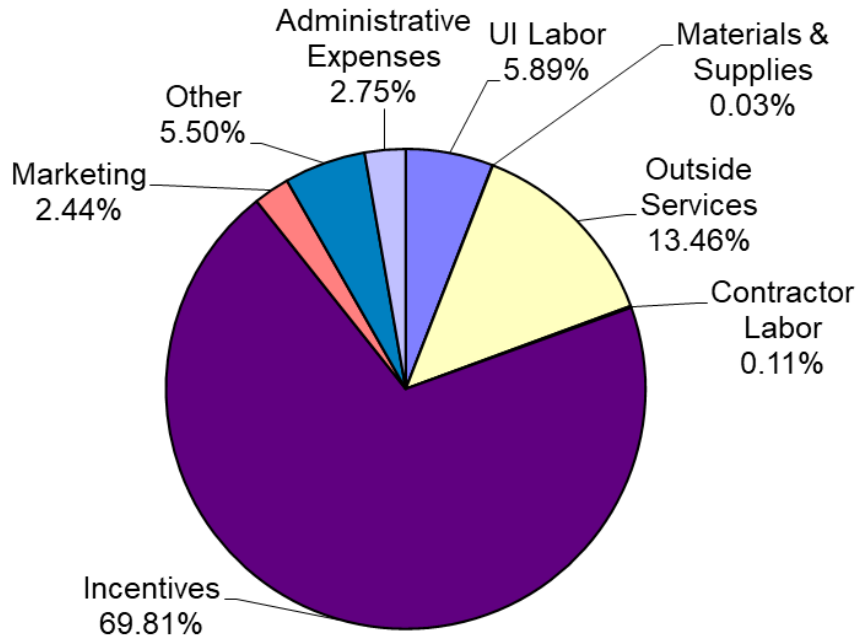
Table C – United Illuminating Electric Energy Efficiency Budget Details (2022)

Table C  
United Illuminating Electric 2022 EE Budget Details

United Illuminating Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$139,698	\$ -	\$87,989	\$ -	\$500,000	\$25,817	\$5,000	\$3,000	\$761,503
Residential New Construction	\$14,729	\$ -	\$6,457	\$ -	\$579,267	\$15,349	\$4,000	\$3,158	\$622,961
Home Energy Solutions – Core Services	\$106,708	\$ -	\$200,000	\$ -	\$2,885,050	\$149,056	\$5,000	\$16,000	\$3,361,814
Home Energy Solutions – HVAC, Water Heaters	\$67,877	\$ -	\$126,000	\$ -	\$1,825,061	\$22,608	\$767	\$3,000	\$2,045,313
HES-Income Eligible	\$61,903	\$ -	\$259,881	\$ -	\$3,974,189	\$200,000	\$4,000	\$8,500	\$4,508,473
Residential Behavior	\$17,354	\$ -	\$268,601	\$ -	\$ -	\$3,895	\$1,101	\$1,077	\$292,027
<b>Subtotal: Residential EE Portfolio</b>	<b>\$408,268</b>	<b>\$ -</b>	<b>\$948,928</b>	<b>\$ -</b>	<b>\$9,763,567</b>	<b>\$416,724</b>	<b>\$19,868</b>	<b>\$34,735</b>	<b>\$11,592,091</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$304,880	\$500	\$163,319	\$0	\$3,733,080	\$77,922	\$10,000	\$60,000	\$4,349,702
Energy Opportunities	\$299,318	\$3,500	\$102,662	\$0	\$7,096,402	\$114,223	\$5,000	\$196,757	\$7,817,861
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$53,663	\$200	\$339,338	\$0	\$719,833	\$27,970	\$4,000	\$12,500	\$1,157,504
Small Business	\$282,941	\$1,000	\$223,992	\$25,000	\$2,721,648	\$70,400	\$2,500	\$490,000	\$3,817,481
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$940,802</b>	<b>\$5,200</b>	<b>\$829,311</b>	<b>\$25,000</b>	<b>\$14,270,962</b>	<b>\$290,515</b>	<b>\$21,500</b>	<b>\$759,257</b>	<b>\$17,142,548</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$126,896	\$ -	\$266,725	\$ -	\$187,193	\$ -	\$ -	\$ -	\$580,814
C&I Demand Response	\$16,995	\$ -	\$170,280	\$ -	\$128,700	\$ -	\$ -	\$ -	\$315,975
<b>Subtotal: Load Management</b>	<b>\$143,891</b>	<b>\$ -</b>	<b>\$437,005</b>	<b>\$ -</b>	<b>\$315,893</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$896,789</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$58,669	\$3,572	\$71,650	\$13,064	\$4,074	\$4,971	\$20,419	\$7,581	\$184,000
Workforce Development	\$23,560	\$ -	\$174,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$198,400
Community Outreach	\$36,588	\$1,190	\$131,193	\$ -	\$ -	\$15,151	\$7,525	\$353	\$192,000
Customer Engagement Initiative	\$5,432	\$133	\$71,689	\$ -	\$ -	\$763	\$1,774	\$210	\$80,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$124,249</b>	<b>\$4,895</b>	<b>\$449,372</b>	<b>\$13,064</b>	<b>\$4,074</b>	<b>\$20,885</b>	<b>\$29,717</b>	<b>\$8,144</b>	<b>\$654,400</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$37,436	\$ -	\$ -	\$ -	\$ -	\$ -	\$113,363	\$ -	\$150,799
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$85,000	\$ -	\$85,000
Research, Development & Demonstration	\$ -	\$ -	\$151,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$151,250
<b>Subtotal: Programs/Requirements</b>	<b>\$37,436</b>	<b>\$ -</b>	<b>\$151,250</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$198,363</b>	<b>\$ -</b>	<b>\$387,049</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$164,800	\$ -	\$1,000	\$ -	\$ -	\$ -	\$ -	\$21,720	\$187,520
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$121,400	\$ -	\$ -	\$121,400
Planning	\$137,299	\$ -	\$32,271	\$ -	\$ -	\$ -	\$ -	\$4,250	\$173,820
Evaluation Measurement and Verification	\$ -	\$ -	\$720,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$720,000
Evaluation Administrator	\$ -	\$ -	\$71,057	\$ -	\$ -	\$ -	\$ -	\$ -	\$71,057
Information Technology	\$98,310	\$ -	\$904,593	\$ -	\$ -	\$ -	\$ -	\$132,260	\$1,135,164
Energy Efficiency Board Consultants	\$ -	\$ -	\$128,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$128,000
Audits - Financial and Operational	\$ -	\$ -	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000
Performance Management Incentive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,650,539	\$ -	\$1,650,539
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$400,409</b>	<b>\$ -</b>	<b>\$1,880,921</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$121,400</b>	<b>\$1,650,539</b>	<b>\$158,230</b>	<b>\$4,211,500</b>
<b>TOTAL BUDGET</b>	<b>\$2,055,056</b>	<b>\$10,095</b>	<b>\$4,696,788</b>	<b>\$38,064</b>	<b>\$24,354,496</b>	<b>\$849,524</b>	<b>\$1,919,987</b>	<b>\$960,366</b>	<b>\$34,884,377</b>

United Illuminating Electric Table C Pie Chart (2022)

**THE UNITED ILLUMINATING COMPANY**  
**2022 ENERGY EFFICIENCY**  
**EE BUDGET BY EXPENSE CLASS**



Expense Classes	Budget	% of Budget
Labor	\$2,055,056	5.89%
Materials & Supplies	\$10,095	0.03%
Outside Services	\$4,696,788	13.46%
Contractor Labor	\$38,064	0.11%
Incentives	\$24,354,496	69.81%
Marketing	\$849,524	2.44%
Other	\$1,919,987	5.50%
Administrative Expenses	<u>\$960,366</u>	<u>2.75%</u>
<b>Total</b>	<b>\$ 34,884,377</b>	<b>100.00%</b>

Totals may vary due to rounding.

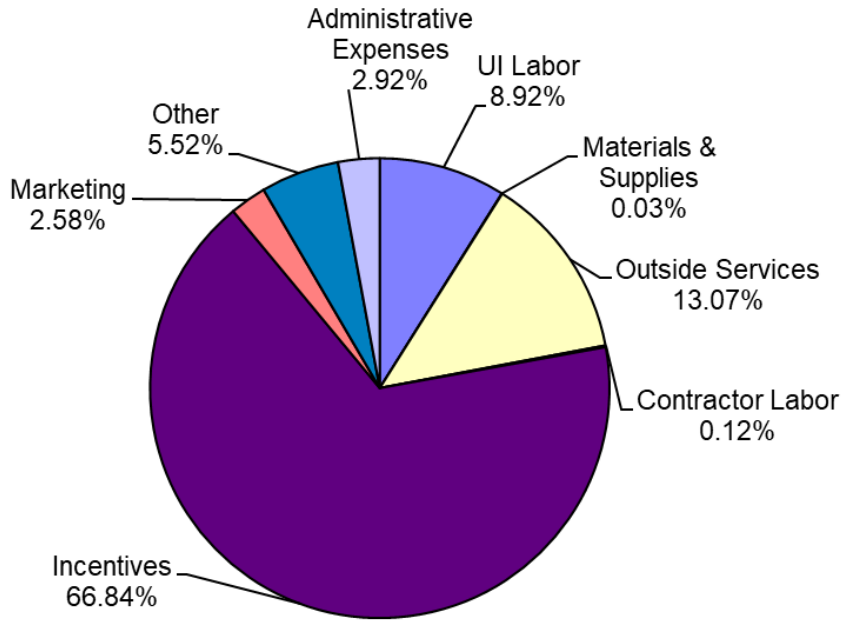
Table C – United Illuminating Electric Energy Efficiency Budget Details (2023)

Table C  
United Illuminating Electric 2023 EE Budget Details

United Illuminating Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$139,698	\$ -	\$87,989	\$ -	\$500,000	\$25,817	\$5,000	\$3,000	\$761,503
Residential New Construction	\$41,028	\$ -	\$6,457	\$ -	\$502,033	\$15,349	\$4,000	\$3,158	\$572,026
Home Energy Solutions - Core Services	\$208,863	\$ -	\$200,000	\$ -	\$2,525,770	\$149,056	\$5,000	\$16,000	\$3,104,689
Home Energy Solutions - HVAC, Water Heaters	\$25,914	\$ -	\$126,000	\$ -	\$1,708,902	\$22,608	\$767	\$3,000	\$1,887,190
HES-Income Eligible	\$208,863	\$ -	\$259,881	\$ -	\$3,506,224	\$200,000	\$4,000	\$8,500	\$4,187,467
Residential Behavior	\$17,354	\$ -	\$245,238	\$ -	\$ -	\$3,895	\$1,101	\$1,077	\$268,665
<b>Subtotal: Residential EE Portfolio</b>	<b>\$641,718</b>	<b>\$ -</b>	<b>\$925,566</b>	<b>\$ -</b>	<b>\$8,742,928</b>	<b>\$416,724</b>	<b>\$19,868</b>	<b>\$34,735</b>	<b>\$10,781,540</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$461,810	\$500	\$163,319	\$ -	\$3,318,603	\$77,922	\$10,000	\$60,000	\$4,092,154
Energy Opportunities	\$461,810	\$3,500	\$102,662	\$ -	\$6,440,864	\$114,223	\$5,000	\$196,757	\$7,324,816
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$90,694	\$200	\$339,338	\$ -	\$632,347	\$27,970	\$4,000	\$12,500	\$1,107,049
Small Business	\$434,446	\$1,000	\$223,992	\$25,000	\$2,419,821	\$70,400	\$2,500	\$490,000	\$3,667,159
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$1,448,759</b>	<b>\$5,200</b>	<b>\$829,311</b>	<b>\$25,000</b>	<b>\$12,811,635</b>	<b>\$290,515</b>	<b>\$21,500</b>	<b>\$759,257</b>	<b>\$16,191,178</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$183,579	\$ -	\$356,481	\$ -	\$219,516	\$ -	\$ -	\$ -	\$759,576
C&I Demand Response	\$25,968	\$ -	\$173,115	\$ -	\$190,575	\$ -	\$ -	\$ -	\$389,658
<b>Subtotal: Load Management</b>	<b>\$209,547</b>	<b>\$ -</b>	<b>\$529,596</b>	<b>\$ -</b>	<b>\$410,091</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$1,149,233</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$58,669	\$3,572	\$71,650	\$13,064	\$4,074	\$4,971	\$20,419	\$7,581	\$184,000
Workforce Development	\$23,560	\$ -	\$174,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$198,400
Community Outreach	\$36,588	\$1,190	\$131,193	\$ -	\$ -	\$15,151	\$7,525	\$353	\$192,000
Customer Engagement Initiative	\$5,432	\$133	\$71,689	\$ -	\$ -	\$763	\$1,774	\$210	\$80,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$124,249</b>	<b>\$4,895</b>	<b>\$449,372</b>	<b>\$13,064</b>	<b>\$4,074</b>	<b>\$20,885</b>	<b>\$29,717</b>	<b>\$8,144</b>	<b>\$654,400</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$48,690	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,109	\$ -	\$150,799
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$85,000	\$ -	\$85,000
Research, Development & Demonstration	\$ -	\$ -	\$151,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$151,250
<b>Subtotal: Programs/Requirements</b>	<b>\$48,690</b>	<b>\$ -</b>	<b>\$151,250</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$187,109</b>	<b>\$ -</b>	<b>\$387,049</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$257,919	\$ -	\$1,000	\$ -	\$ -	\$ -	\$ -	\$21,720	\$280,639
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$121,400	\$ -	\$ -	\$121,400
Planning	\$103,872	\$ -	\$32,271	\$ -	\$ -	\$ -	\$ -	\$4,250	\$140,393
Evaluation Measurement and Verification	\$ -	\$ -	\$720,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$720,000
Evaluation Administrator	\$ -	\$ -	\$71,057	\$ -	\$ -	\$ -	\$ -	\$ -	\$71,057
Information Technology	\$98,310	\$ -	\$435,593	\$ -	\$ -	\$ -	\$ -	\$132,260	\$666,164
Energy Efficiency Board Consultants	\$ -	\$ -	\$128,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$128,000
Audits - Financial and Operational	\$ -	\$ -	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000
Performance Management Incentive	\$ -	\$ -	\$0	\$ -	\$ -	\$ -	\$1,554,600	\$ -	\$1,554,600
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$460,101</b>	<b>\$ -</b>	<b>\$1,411,921</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$121,400</b>	<b>\$1,554,600</b>	<b>\$158,230</b>	<b>\$3,706,252</b>
<b>TOTAL BUDGET</b>	<b>\$2,933,063</b>	<b>\$10,095</b>	<b>\$4,297,016</b>	<b>\$38,064</b>	<b>\$21,968,728</b>	<b>\$849,524</b>	<b>\$1,812,794</b>	<b>\$960,366</b>	<b>\$32,869,651</b>

United Illuminating Electric Table C Pie Chart (2023)

**THE UNITED ILLUMINATING COMPANY**  
**2023 ENERGY EFFICIENCY**  
**EE BUDGET BY EXPENSE CLASS**



Expense Classes	Budget	% of Budget
Labor	\$ 2,933,063	8.92%
Materials & Supplies	\$ 10,095	0.03%
Outside Services	\$ 4,297,016	13.07%
Contractor Labor	\$ 38,064	0.12%
Incentives	\$ 21,968,728	66.84%
Marketing	\$ 849,524	2.58%
Other	\$ 1,812,794	5.52%
Administrative Expenses	\$ 960,366	2.92%
<b>Total</b>	<b>\$ 32,869,651</b>	<b>100.00%</b>

Totals may vary due to rounding.



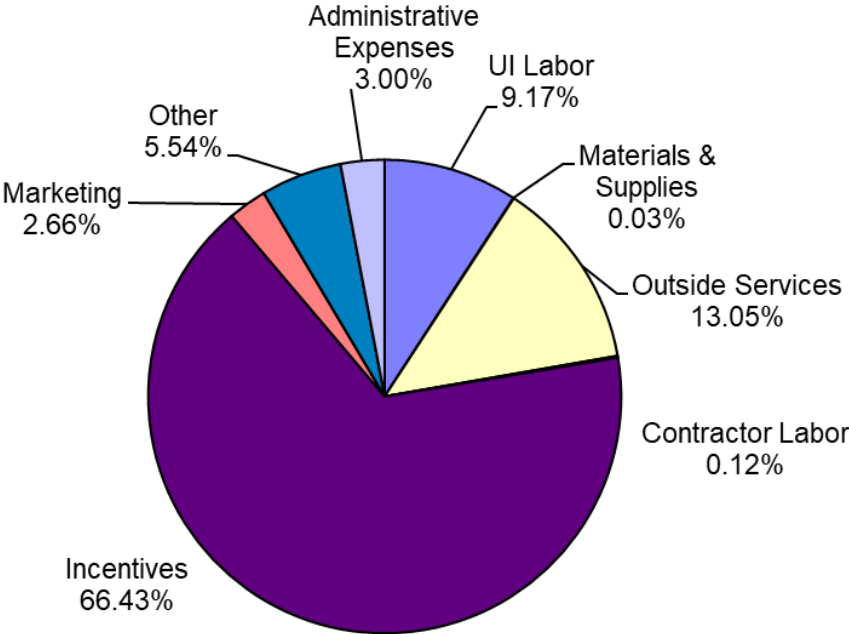
Table C – United Illuminating Electric Energy Efficiency Budget Details (2024)

Table C  
United Illuminating Electric 2024 EE Budget Details

United Illuminating Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential Retail Products	\$139,698	\$ -	\$87,989	\$ -	\$500,000	\$25,817	\$5,000	\$3,000	\$761,503
Residential New Construction	\$41,028	\$ -	\$6,457	\$ -	\$480,431	\$15,349	\$4,000	\$3,158	\$550,424
Home Energy Solutions - Core Services	\$208,863	\$ -	\$200,000	\$ -	\$2,349,138	\$149,056	\$5,000	\$16,000	\$2,928,056
Home Energy Solutions - HVAC, Water Heaters	\$25,914	\$ -	\$126,000	\$ -	\$1,643,945	\$22,608	\$767	\$3,000	\$1,822,234
HES-Income Eligible	\$208,863	\$ -	\$259,881	\$ -	\$3,367,656	\$200,000	\$4,000	\$8,500	\$4,048,900
Residential Behavior	\$17,354	\$ -	\$223,745	\$ -	\$0	\$3,895	\$1,101	\$1,077	\$247,172
<b>Subtotal: Residential EE Portfolio</b>	<b>\$641,718</b>	<b>\$ -</b>	<b>\$904,073</b>	<b>\$ -</b>	<b>\$8,341,170</b>	<b>\$416,724</b>	<b>\$19,868</b>	<b>\$34,735</b>	<b>\$10,358,289</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$461,810	\$500	\$163,319	\$ -	\$3,193,304	\$77,922	\$10,000	\$60,000	\$3,966,855
Energy Opportunities	\$461,810	\$3,500	\$102,662	\$ -	\$6,215,859	\$114,223	\$5,000	\$196,757	\$7,099,811
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$90,694	\$200	\$339,338	\$ -	\$598,450	\$27,970	\$4,000	\$12,500	\$1,073,152
Small Business	\$434,446	\$1,000	\$223,992	\$25,000	\$2,355,926	\$70,400	\$2,500	\$490,000	\$3,603,264
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$1,448,759</b>	<b>\$5,200</b>	<b>\$829,311</b>	<b>\$25,000</b>	<b>\$12,363,539</b>	<b>\$290,515</b>	<b>\$21,500</b>	<b>\$759,257</b>	<b>\$15,743,082</b>
<b>OTHER - LOAD MANAGEMENT</b>									
Residential Demand Response	\$183,579	\$ -	\$468,668	\$ -	\$253,823	\$ -	\$ -	\$ -	\$906,070
C&I Demand Response	\$24,477	\$ -	\$164,501	\$ -	\$267,919	\$ -	\$ -	\$ -	\$456,897
<b>Subtotal: Load Management</b>	<b>\$208,056</b>	<b>\$ -</b>	<b>\$633,169</b>	<b>\$ -</b>	<b>\$521,742</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$1,362,967</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$58,669	\$3,572	\$71,650	\$13,064	\$4,074	\$4,971	\$20,419	\$7,581	\$184,000
Workforce Development	\$23,560	\$ -	\$174,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$198,400
Community Outreach	\$36,588	\$1,190	\$131,193	\$ -	\$ -	\$15,151	\$7,525	\$353	\$192,000
Customer Engagement Initiative	\$5,432	\$133	\$71,689	\$ -	\$ -	\$763	\$1,774	\$210	\$80,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$124,249</b>	<b>\$4,895</b>	<b>\$449,372</b>	<b>\$13,064</b>	<b>\$4,074</b>	<b>\$20,885</b>	<b>\$29,717</b>	<b>\$8,144</b>	<b>\$654,400</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (includes ECLF and OBR)	\$48,690	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,109	\$ -	\$150,799
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$85,000	\$ -	\$85,000
Research, Development & Demonstration	\$ -	\$ -	\$151,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$151,250
<b>Subtotal: Programs/ Requirements</b>	<b>\$48,690</b>	<b>\$ -</b>	<b>\$151,250</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$187,109</b>	<b>\$ -</b>	<b>\$387,049</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$257,919	\$ -	\$1,000	\$ -	\$ -	\$ -	\$ -	\$21,720	\$280,639
Marketing Plan	\$ -	\$ -	\$0	\$ -	\$ -	\$121,400	\$ -	\$ -	\$121,400
Planning	\$103,872	\$ -	\$32,271	\$ -	\$ -	\$ -	\$ -	\$4,250	\$140,393
Evaluation Measurement and Verification	\$ -	\$ -	\$720,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$720,000
Evaluation Administrator	\$ -	\$ -	\$71,057	\$ -	\$ -	\$ -	\$ -	\$ -	\$71,057
Information Technology	\$98,310	\$ -	\$227,593	\$ -	\$ -	\$ -	\$ -	\$132,260	\$458,164
Energy Efficiency Board Consultants	\$ -	\$ -	\$128,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$128,000
Audits - Financial and Operational	\$ -	\$ -	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000
Performance Management Incentive	\$ -	\$ -	\$0	\$ -	\$ -	\$ -	\$1,511,319	\$ -	\$1,511,319
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$460,101</b>	<b>\$ -</b>	<b>\$1,203,921</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$121,400</b>	<b>\$1,511,319</b>	<b>\$158,230</b>	<b>\$3,454,971</b>
<b>TOTAL BUDGET</b>	<b>\$2,931,572</b>	<b>\$10,095</b>	<b>\$4,171,096</b>	<b>\$38,064</b>	<b>\$21,230,526</b>	<b>\$849,524</b>	<b>\$1,769,513</b>	<b>\$960,366</b>	<b>\$31,960,758</b>

United Illuminating Electric Table C Pie Chart (2024)

**THE UNITED ILLUMINATING COMPANY**  
**2024 ENERGY EFFICIENCY**  
**EE BUDGET BY EXPENSE CLASS**



Expense Classes	Budget	% of Budget
Labor	\$2,931,572	9.17%
Materials & Supplies	\$10,095	0.03%
Outside Services	\$4,171,096	13.05%
Contractor Labor	\$38,064	0.12%
Incentives	\$21,230,526	66.43%
Marketing	\$849,524	2.66%
Other	\$1,769,513	5.54%
Administrative Expenses	\$960,366	3.00%
<b>Total</b>	<b>\$ 31,960,758</b>	<b>100.00%</b>

Totals may vary due to rounding.

Table D – United Illuminating Electric Historical and Projected (\$) (2013-2024)

**Table D  
United Illuminating Electric Historical and Projected \$**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$2,084	\$3,908	\$3,368	\$4,422	\$4,091	\$1,070
Residential New Construction	\$171	\$257	\$285	\$497	\$481	-\$36
Home Energy Solutions	\$2,958	\$4,591	\$3,710	\$3,256	\$3,154	\$2,117
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$1,016	\$1,120	\$1,229
HES-Income Eligible	\$4,776	\$3,897	\$3,319	\$3,808	\$3,770	\$2,732
Residential Behavior	\$ -	\$137	\$710	\$489	\$72	\$0
<b>Subtotal: Residential EE Portfolio</b>	<b>\$9,989</b>	<b>\$12,790</b>	<b>\$11,392</b>	<b>\$13,488</b>	<b>\$12,688</b>	<b>\$7,112</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$2,103	\$3,960	\$2,687	\$3,091	\$2,280	\$1,721
Energy Opportunities	\$4,124	\$7,261	\$9,501	\$11,003	\$9,622	\$4,208
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$358	\$653	\$731	\$503	\$541	\$358
Small Business	\$2,404	\$2,553	\$3,548	\$3,349	\$4,430	\$2,285
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$8,989</b>	<b>\$14,427</b>	<b>\$16,467</b>	<b>\$17,946</b>	<b>\$16,873</b>	<b>\$8,572</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot - Residential	\$ -	\$ -	\$ -	\$339	\$644	\$558
Demand Response Pilot – C&I	\$ -	\$ -	\$ -	\$ -	\$18	\$158
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$339</b>	<b>\$662</b>	<b>\$716</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Educate the Public	\$ -	\$ -	\$ -	\$564	\$542	\$294
Customer Engagement	\$ -	\$ -	\$ -	\$137	\$20	\$8
Educate the Students	\$ -	\$ -	\$ -	\$127	\$203	\$83
Educate the workforce	\$ -	\$ -	\$ -	\$76	\$54	\$36
SmartLiving Center® / Science Center	\$602	\$1,095	\$513	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$343	\$304	\$322	\$ -	\$ -	\$ -
Clean Energy Communities	\$241	\$360	\$492	\$ -	\$ -	\$ -
<b>Subtotal: Education &amp; Engagement</b>	<b>\$1,186</b>	<b>\$1,759</b>	<b>\$1,327</b>	<b>\$904</b>	<b>\$819</b>	<b>\$421</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Financing Support – Residential	\$158	\$920	\$596	\$249	\$208	\$74
Financing Support – C&I	\$ -	\$ -	\$ -	\$87	\$98	\$ -
Time-of-Use Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Research, Development & Demonstration	\$290	\$59	\$9	\$74	\$185	\$80
Institute for Sustainable Energy	\$112	\$90	\$99	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$3	\$17	\$7	\$ -	\$ -	\$ -
C&I Loan Program	\$9	\$16	\$34	\$ -	\$ -	\$ -
EE Loan Defaults	\$32	\$ -	\$1	\$ -	\$ -	\$ -
C&I Self-Funding	\$ -	\$1,000	\$ -	\$ -	\$ -	\$ -
Other Funding Requests	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Other Programs/Requirements</b>	<b>\$604</b>	<b>\$2,101</b>	<b>\$746</b>	<b>\$410</b>	<b>\$491</b>	<b>\$155</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$901	\$648	\$532	\$475	\$551	\$378
Marketing Plan	\$35	\$247	\$249	\$227	\$175	\$73
Planning	\$344	\$314	\$214	\$315	\$283	\$205
Evaluation Measurement and Verification	\$736	\$486	\$642	\$480	\$494	\$256
Evaluation Administrator	\$ -	\$46	\$52	\$48	\$34	\$45
Information Technology	\$249	\$192	\$308	\$402	\$273	\$335
Energy Efficiency Board Consultants	\$232	\$287	\$54	\$208	\$208	\$76
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$24	\$12
Performance Management Incentive	\$1,518	\$1,743	\$1,821	\$2,353	\$2,370	\$1,321
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$4,016</b>	<b>\$3,963</b>	<b>\$3,872</b>	<b>\$4,508</b>	<b>\$4,412</b>	<b>\$2,700</b>
<b>TOTAL</b>	<b>\$24,784</b>	<b>\$35,041</b>	<b>\$33,804</b>	<b>\$37,595</b>	<b>\$35,945</b>	<b>\$19,676</b>

**Table D – United Illuminating Electric Historical and Projected (\$) (2013-2024)(continued)**

**Table D: United Illuminating Electric Historical and Projected \$**

	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget	2024 Budget
<b>RESIDENTIAL</b>						
Residential Retail Products	\$2,060	\$2,795	\$1,834	\$762	\$762	\$762
Residential New Construction	\$795	\$423	\$620	\$623	\$572	\$550
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$2,815	\$3,522	\$3,600	\$3,362	\$3,105	\$2,928
HVAC & Domestic Water Heating	\$1,651	\$1,323	\$1,939	\$2,045	\$1,887	\$1,822
HES-Income Eligible	\$4,181	\$2,076	\$4,112	\$4,508	\$4,187	\$4,049
Residential Behavior	\$32	\$193	\$382	\$292	\$269	\$247
<b>Subtotal: Residential EE Portfolio</b>	<b>\$11,533</b>	<b>\$10,333</b>	<b>\$12,488</b>	<b>\$11,592</b>	<b>\$10,782</b>	<b>\$10,358</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$4,622	\$2,904	\$4,267	\$4,350	\$4,092	\$3,967
Energy Opportunities	\$6,213	\$12,358	\$7,737	\$7,818	\$7,325	\$7,100
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$720	\$826	\$1,177	\$1,158	\$1,107	\$1,073
Small Business	\$2,298	\$3,914	\$3,874	\$3,817	\$3,667	\$3,603
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$13,854</b>	<b>\$20,001</b>	<b>\$17,054</b>	<b>\$17,143</b>	<b>\$16,191</b>	<b>\$15,743</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot – Residential	\$853	\$417	\$2,571	\$581	\$760	\$906
Demand Response Pilot – C&I	\$80	\$104	\$381	\$316	\$390	\$457
<b>Subtotal: Load Management</b>	<b>\$933</b>	<b>\$521</b>	<b>\$2,952</b>	<b>\$897</b>	<b>\$1,149</b>	<b>\$1,363</b>
<b>OTHER - EDUCATION</b>						
Educate the Public	\$290	\$112	\$103	\$184	\$184	\$184
Customer Engagement	\$ -	\$78	\$141	\$198	\$198	\$198
Educate the Students	\$109	\$174	\$328	\$192	\$192	\$192
Educate the Workforce	\$58	\$ -	\$275	\$80	\$80	\$80
Smart Living Center / Science Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Education &amp; Engagement</b>	<b>\$458</b>	<b>\$364</b>	<b>\$847</b>	<b>\$654</b>	<b>\$654</b>	<b>\$654</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Financing Support – Residential	\$72	\$157	\$151	\$151	\$151	\$151
C&I Financing Support	\$ -	\$ -	\$85	\$85	\$85	\$85
Time-of-Use Program	\$0	(\$2)	(\$1)	\$ -	\$ -	\$ -
Research, Development & Demonstration	\$49	\$26	\$151	\$151	\$151	\$151
Institute for Sustainable Energy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Self-Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Funding Requests	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Other Programs/Requirements</b>	<b>\$121</b>	<b>\$181</b>	<b>\$386</b>	<b>\$387</b>	<b>\$387</b>	<b>\$387</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$255	\$250	\$274	\$188	\$281	\$281
Marketing Plan	\$43	\$17	\$121	\$121	\$121	\$121
Planning	\$125	\$227	\$140	\$174	\$140	\$140
Evaluation Measurement and Verification	\$256	\$478	\$480	\$720	\$720	\$720
Evaluation Administrator	\$45	\$52	\$53	\$71	\$71	\$71
Information Technology	\$231	\$156	\$458	\$1,135	\$666	\$458
Energy Efficiency Board Consultants	\$74	\$104	\$104	\$128	\$128	\$128
Audits - Financial and Operational	\$24	\$4	\$24	\$24	\$24	\$24
Performance Management Incentive	\$1,904	\$993	\$1,584	\$1,651	\$1,555	\$1,511
<b>Subtotal: Admin/Planning Expenditures</b>	<b>\$2,957</b>	<b>\$2,282</b>	<b>\$3,239</b>	<b>\$4,212</b>	<b>\$3,706</b>	<b>\$3,455</b>
<b>TOTAL</b>	<b>\$29,857</b>	<b>\$33,682</b>	<b>\$36,966</b>	<b>\$34,884</b>	<b>\$32,870</b>	<b>\$31,961</b>

Table D1 – United Illuminating Electric Historical and Projected (kW)(2013-2024)

**Table D1**  
**United Illuminating Electric Historical and Projected kW**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	1,860	1,907	2,757	3,180	3,365	610	1,569	1,834	869	664	669	660
Residential New Construction	47	130	75	140	58	42	122	47	246	257	213	204
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	553	783	537	551	561	273	691	595	675	266	258	240
HVAC & Domestic Water Heating	-	-	-	86	97	78	271	343	245	338	316	301
HES-Income Eligible	473	268	192	427	542	108	366	77	133	160	141	130
Residential Behavior	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Residential EE Portfolio</b>	<b>2,933</b>	<b>3,088</b>	<b>3,561</b>	<b>4,384</b>	<b>4,623</b>	<b>1,110</b>	<b>3,019</b>	<b>2,896</b>	<b>2,168</b>	<b>1,686</b>	<b>1,598</b>	<b>1,534</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	1,267	1,344	1,414	1,567	992	386	1,948	757	999	1,063	918	857
Energy Opportunities	1,164	2,171	4,331	3,830	4,348	1,347	2,942	3,422	1,601	1,077	933	892
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	20	93	153	113	7	27	-	-	505	441	371	277
Small Business	579	587	1,176	1,238	1,316	515	498	553	552	715	642	625
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>3,030</b>	<b>4,195</b>	<b>7,074</b>	<b>6,748</b>	<b>6,663</b>	<b>2,276</b>	<b>5,388</b>	<b>4,732</b>	<b>3,657</b>	<b>3,296</b>	<b>2,864</b>	<b>2,651</b>
<b>OTHER - LOAD MANAGEMENT</b>												
Demand Response Pilot - Res	-	-	-	-	-	-	-	2,218	4,480	4,724	5,683	6,699
Demand Response Pilot – C&I	-	-	-	-	-	-	-	266	1,498	2,008	2,008	4,180
<b>Subtotal: Load Management</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2,484</b>	<b>5,978</b>	<b>6,731</b>	<b>7,690</b>	<b>10,879</b>
<b>TOTAL</b>	<b>5,963</b>	<b>7,283</b>	<b>10,635</b>	<b>11,132</b>	<b>11,286</b>	<b>3,386</b>	<b>8,407</b>	<b>10,112</b>	<b>11,803</b>	<b>11,713</b>	<b>12,152</b>	<b>15,063</b>

Table D2 – United Illuminating Electric Historical and Projected Annual kWh (000s)(2013-2024)

**Table D2**  
**United Illuminating Electric Historical and Projected Annual kWh (000s)**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goals	Goals	Goals	Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	21,333	21,900	22,493	25,732	27,168	3,510	11,254	9,882	5,943	2,349	2,383	2,305
Residential New Construction	180	203	145	405	231	210	496	304	389	445	368	332
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	2,344	4,492	3,207	2,635	2,789	2,721	2,983	1,580	1,524	853	1,009	938
HVAC & Domestic Water Heating	-	-	-	1,948	2,032	1,367	1,335	649	671	939	879	879
HES-Income Eligible	3,787	3,754	1,994	4,450	3,765	3,648	4,226	1,270	1,996	963	849	771
Residential Behavior	0	0	4,204	4,265	3,396	-	-	-	812	2,240	2,128	2,022
<b>Subtotal: Residential EE Portfolio</b>	<b>27,644</b>	<b>30,349</b>	<b>32,043</b>	<b>39,435</b>	<b>39,381</b>	<b>11,456</b>	<b>20,294</b>	<b>13,685</b>	<b>11,335</b>	<b>7,788</b>	<b>7,616</b>	<b>7,248</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	8,277	12,505	7,942	10,688	5,660	5,821	16,558	4,550	7,693	8,588	7,412	6,925
Energy Opportunities	10,833	19,506	35,303	34,249	40,174	20,639	19,164	26,627	13,701	13,734	11,792	11,189
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	1,939	3,112	2,072	1,636	567	164	1,258	1,852	2,510	2,348	2,057	1,685
Small Business	5,131	7,114	8,297	8,053	8,847	6,238	3,532	3,135	6,259	6,562	5,877	5,725
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>26,180</b>	<b>42,237</b>	<b>53,614</b>	<b>54,626</b>	<b>55,248</b>	<b>32,862</b>	<b>40,512</b>	<b>36,164</b>	<b>30,163</b>	<b>31,232</b>	<b>27,139</b>	<b>25,524</b>
<b>TOTAL</b>	<b>53,824</b>	<b>72,586</b>	<b>85,657</b>	<b>94,061</b>	<b>94,629</b>	<b>44,318</b>	<b>60,806</b>	<b>49,849</b>	<b>41,498</b>	<b>39,020</b>	<b>34,755</b>	<b>32,772</b>

Table D3– United Illuminating Electric Historical and Projected Lifetime kWh (000s)(2013-2024)

**Table D3**  
**United Illuminating Electric Historical and Projected Lifetime kWh**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goals	Goals	Goals	Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	124,693	181,837	214,911	302,910	218,858	21,744	58,083	43,986	21,051	14,650	15,414	14,564
Residential New Construction	1,702	2,498	1,817	5,995	1,836	3,169	8,319	3,441	8,901	11,113	9,191	8,295
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	23,439	57,406	43,369	31,635	28,492	24,573	23,696	15,343	17,255	9,662	10,978	10,210
HVAC & Domestic Water Heating	-	-	-	26,930	26,354	24,042	22,619	10,468	11,205	14,915	13,966	13,966
HES-Income Eligible	46,117	50,273	24,573	58,090	42,317	40,013	45,338	18,007	17,760	7,589	6,696	6,197
Residential Behavior	-	-	10,931	11,088	8,830	-	-	-	1,624	4,480	4,256	4,043
<b>Subtotal: Residential EE Portfolio</b>	<b>195,951</b>	<b>292,014</b>	<b>295,601</b>	<b>436,648</b>	<b>326,687</b>	<b>113,541</b>	<b>158,055</b>	<b>91,245</b>	<b>77,796</b>	<b>62,410</b>	<b>60,500</b>	<b>57,274</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	128,278	195,048	121,435	160,561	89,308	98,486	264,135	66,080	132,312	123,312	106,428	99,427
Energy Opportunities	137,393	230,606	393,904	415,779	480,512	254,831	216,084	313,454	162,166	101,458	88,035	84,006
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	14,596	24,020	12,710	9,922	2,837	821	6,292	10,560	15,062	18,170	15,976	13,067
Small Business	65,167	88,661	103,281	100,003	110,908	78,121	42,728	37,734	70,374	50,642	45,059	43,890
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>345,434</b>	<b>538,335</b>	<b>631,330</b>	<b>686,265</b>	<b>683,565</b>	<b>432,259</b>	<b>529,239</b>	<b>427,828</b>	<b>379,914</b>	<b>293,581</b>	<b>255,498</b>	<b>240,390</b>
<b>TOTAL</b>	<b>541,385</b>	<b>830,349</b>	<b>926,931</b>	<b>1,122,913</b>	<b>1,010,252</b>	<b>545,800</b>	<b>687,294</b>	<b>519,073</b>	<b>457,710</b>	<b>355,990</b>	<b>315,998</b>	<b>297,665</b>

Table D4– United Illuminating Electric Historical and Projected Units (2013-2024)

**Table D4**  
**United Illuminating Electric Historical and Projected Units**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	747,037	1,018,092	624,729	1,016,284	1,207,300	183,614
Residential New Construction	115	341	66	319	43	99
Home Energy Solutions	3,933	7,370	5,585	3,178	3,367	2,656
HVAC & Domestic Water Heating	-	-	-	5,100	4,140	5,995
HES-Income Eligible	4,932	4,948	2,783	2,475	3,827	2,607
Residential Behavior	-	-	54,304	44,439	60,868	-
<b>Subtotal: Residential EE Portfolio</b>	<b>756,017</b>	<b>1,030,751</b>	<b>687,467</b>	<b>1,071,795</b>	<b>1,279,545</b>	<b>194,971</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	306	264	208	342	316	221
Energy Opportunities	224	888	1,290	1,154	1,391	1,228
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	41	381	707	586	42	62
Small Business	323	404	357	355	369	223
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>894</b>	<b>1,937</b>	<b>2,562</b>	<b>2,437</b>	<b>2,118</b>	<b>1,734</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot - Residential	-	-	-	-	-	-
Demand Response Pilot – C&I	-	-	-	-	-	-
<b>Subtotal: Load Management</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>756,911</b>	<b>1,032,688</b>	<b>690,029</b>	<b>1,074,232</b>	<b>1,281,663</b>	<b>196,705</b>



**Table D4– United Illuminating Electric Historical and Projected Units (2013-2024) (continued)**

**Table D4**  
**United Illuminating Electric Historical and Projected Units**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	1,122,906	625,469	423,214	80,563	78,803	77,663
Residential New Construction	357	208	570	775	659	630
Home Energy Solutions	3,101	3,326	3,890	5,435	6,223	5,788
HVAC & Domestic Water Heating	8,326	14,091	5,791	14,739	13,801	13,801
HES-Income Eligible	1,539	1,263	2,846	5,255	4,636	4,293
Residential Behavior	-	-	36,900	35,000	33,250	31,587
<b>Subtotal: Residential EE Portfolio</b>	<b>1,136,229</b>	<b>644,357</b>	<b>473,211</b>	<b>141,767</b>	<b>137,372</b>	<b>133,761</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	486	298	230	131	116	112
Energy Opportunities	1,578	2,107	1,340	606	551	533
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	62	8	33	90	66	67
Small Business	158	135	270	225	216	212
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>2,284</b>	<b>2,548</b>	<b>1,873</b>	<b>1,051</b>	<b>949</b>	<b>924</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot - Residential	-	2,579	5,833	5,904	7,103	8,374
Demand Response Pilot – C&I	-	3	17	29	43	61
<b>Subtotal: Load Management</b>	<b>-</b>	<b>2,582</b>	<b>5,850</b>	<b>5,934</b>	<b>7,147</b>	<b>8,435</b>
<b>TOTAL</b>	<b>1,138,513</b>	<b>649,487</b>	<b>480,934</b>	<b>148,752</b>	<b>145,468</b>	<b>143,120</b>

Table D5 – United Illuminating Electric Historical and Cost per Projected kW

**Table D5**  
**United Illuminating Electric Historical and Cost per Projected kW**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$1,120	\$2,049	\$1,222	\$1,391	\$1,216	\$1,755
Residential New Construction	\$3,638	\$1,977	\$3,800	\$3,550	\$8,293	-\$843
Home Energy Solutions	\$5,349	\$5,863	\$6,909	\$5,909	\$5,622	\$7,750
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$11,814	\$11,546	\$15,822
HES-Income Eligible	\$10,097	\$14,541	\$17,286	\$8,918	\$6,956	\$25,362
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$3,406</b>	<b>\$4,142</b>	<b>\$3,199</b>	<b>\$3,077</b>	<b>\$2,745</b>	<b>\$6,405</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$1,660	\$2,946	\$1,900	\$1,973	\$2,298	\$4,456
Energy Opportunities	\$3,543	\$3,345	\$2,194	\$2,873	\$2,213	\$3,123
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$17,900	\$7,022	\$4,778	\$4,451	\$77,286	\$13,126
Small Business	\$4,152	\$4,349	\$3,017	\$2,705	\$3,366	\$4,438
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$2,967</b>	<b>\$3,439</b>	<b>\$2,328</b>	<b>\$2,659</b>	<b>\$2,532</b>	<b>\$3,767</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Response Pilot – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL</b>	<b>\$3,183</b>	<b>\$3,737</b>	<b>\$2,620</b>	<b>\$2,854</b>	<b>\$2,678</b>	<b>\$4,843</b>

**Table D5 – United Illuminating Electric Historical and Cost per Projected kW (continued)****Table D5  
United Illuminating Electric Historical and Cost per Projected kW**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	\$1,313	\$1,524	\$2,111	\$1,146	\$1,137	\$1,154
Residential New Construction	\$6,514	\$9,009	\$2,522	\$2,420	\$2,689	\$2,705
Home Energy Solutions	\$4,074	\$5,919	\$5,334	\$6,033	\$6,898	\$7,067
HVAC & Domestic Water Heating	\$6,093	\$3,856	\$7,916	\$6,046	\$5,964	\$6,059
HES-Income Eligible	\$11,423	\$26,964	\$30,914	\$13,585	\$15,071	\$15,958
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$3,820</b>	<b>\$3,568</b>	<b>\$5,760</b>	<b>\$4,449</b>	<b>\$4,629</b>	<b>\$4,659</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$2,373	\$3,836	\$4,271	\$4,090	\$4,459	\$4,627
Energy Opportunities	\$2,112	\$3,611	\$4,833	\$7,260	\$7,847	\$7,961
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$ -	\$ -	\$2,330	\$2,624	\$2,980	\$3,878
Small Business	\$4,615	\$7,077	\$7,018	\$5,339	\$5,716	\$5,765
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$2,571</b>	<b>\$4,227</b>	<b>\$4,663</b>	<b>\$5,200</b>	<b>\$5,653</b>	<b>\$5,939</b>
<b>OTHER - LOAD MANAGEMENT</b>						
Demand Response Pilot - Residential	\$ -	\$188	\$574	\$123	\$134	\$135
Demand Response Pilot – C&I	\$ -	\$390	\$255	\$157	\$194	\$109
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$210</b>	<b>\$494</b>	<b>\$133</b>	<b>\$149</b>	<b>\$125</b>
<b>TOTAL</b>	<b>\$3,131</b>	<b>\$3,051</b>	<b>\$2,753</b>	<b>\$2,530</b>	<b>\$2,314</b>	<b>\$1,823</b>

Table D6 – United Illuminating Electric Historical and Cost per Projected Annual kWh (2013-2024)

**Table D6**  
**United Illuminating Electric Historical and Cost per Projected Annual kWh**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential Retail Products	\$0.098	\$0.178	\$0.150	\$0.172	\$0.151	\$0.305
Residential New Construction	\$0.950	\$1.266	\$1.966	\$1.227	\$2.082	-\$0.169
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$1.262	\$1.022	\$1.157	\$1.236	\$1.131	\$0.778
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$0.522	\$0.551	\$0.899
HES Income Eligible	\$1.261	\$1.038	\$1.664	\$0.856	\$1.001	\$0.749
Residential Behavior	\$ -	\$ -	\$0.169	\$0.115	\$0.021	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.361</b>	<b>\$0.421</b>	<b>\$0.356</b>	<b>\$0.342</b>	<b>\$0.322</b>	<b>\$0.621</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$0.254	\$0.317	\$0.338	\$0.289	\$0.403	\$0.296
Energy Opportunities	\$0.381	\$0.372	\$0.269	\$0.321	\$0.240	\$0.204
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$0.185	\$0.210	\$0.353	\$0.307	\$0.954	\$2.180
Small Business	\$0.469	\$0.359	\$0.428	\$0.416	\$0.501	\$0.366
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.343</b>	<b>\$0.342</b>	<b>\$0.307</b>	<b>\$0.329</b>	<b>\$0.305</b>	<b>\$0.261</b>
<b>TOTAL</b>	<b>\$0.353</b>	<b>\$0.375</b>	<b>\$0.325</b>	<b>\$0.334</b>	<b>\$0.312</b>	<b>\$0.354</b>

**Table D6 – United Illuminating Electric Historical and Cost per Projected Annual kWh (2013-2024) (continued)****Table D6  
United Illuminating Electric Historical and Cost per Projected Annual kWh**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	\$0.183	\$0.283	\$0.309	\$0.324	\$0.320	\$0.330
Residential New Construction	\$1.602	\$1.393	\$1.595	\$1.401	\$1.556	\$1.659
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$0.944	\$2.229	\$2.362	\$1.878	\$1.762	\$1.805
HVAC & Domestic Water Heating	\$1.237	\$2.038	\$2.890	\$2.178	\$2.146	\$2.072
HES Income Eligible	\$0.989	\$1.635	\$2.060	\$2.259	\$2.506	\$2.686
Residential Behavior	NA	NA	\$0.470	\$0.130	\$0.126	\$0.122
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.183</b>	<b>\$0.283</b>	<b>\$0.309</b>	<b>\$0.324</b>	<b>\$0.320</b>	<b>\$0.330</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$0.279	\$0.638	\$0.555	\$0.506	\$0.552	\$0.573
Energy Opportunities	\$0.324	\$0.464	\$0.565	\$0.569	\$0.621	\$0.635
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	\$0.573	\$0.446	\$0.469	\$0.493	\$0.538	\$0.637
Small Business	\$0.651	\$1.248	\$0.619	\$0.582	\$0.624	\$0.629
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.342</b>	<b>\$0.553</b>	<b>\$0.565</b>	<b>\$0.549</b>	<b>\$0.597</b>	<b>\$0.617</b>
<b>TOTAL</b>	<b>\$0.418</b>	<b>\$0.609</b>	<b>\$0.712</b>	<b>\$0.736</b>	<b>\$0.776</b>	<b>\$0.796</b>

Table D7 – United Illuminating Electric Historical and Cost per Projected Lifetime kWh (2013-2024)

**Table D7**  
**United Illuminating Electric Historical and Cost per Projected Lifetime kWh**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential Retail Products	\$1.224	\$1.564	\$1.854	\$0.738	\$2.228	\$0.338	\$0.248	\$0.812	\$0.087	\$0.052	\$0.049	\$0.052
Residential New Construction	\$0.001	\$0.001	\$0.001	\$0.002	\$0.002	-\$0.002	\$0.014	\$0.010	\$0.070	\$0.056	\$0.062	\$0.066
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	\$0.126	\$0.080	\$0.086	\$0.103	\$0.111	\$0.086	\$0.119	\$0.230	\$0.209	\$0.166	\$0.162	\$0.166
HVAC & Domestic Water Heating	NA	NA	NA	\$0.038	\$0.042	\$0.051	\$0.073	\$0.126	\$0.173	\$0.137	\$0.135	\$0.130
HES Income Eligible	\$0.104	\$0.078	\$0.135	\$0.066	\$0.089	\$0.068	\$0.092	\$0.115	\$0.232	\$0.287	\$0.318	\$0.334
Residential Behavior	NA	NA	\$0.065	\$0.044	\$0.008	NA	NA	NA	\$0.235	\$0.065	\$0.063	\$0.061
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.051</b>	<b>\$0.044</b>	<b>\$0.039</b>	<b>\$0.031</b>	<b>\$0.039</b>	<b>\$0.063</b>	<b>\$0.073</b>	<b>\$0.113</b>	<b>\$0.161</b>	<b>\$0.120</b>	<b>\$0.122</b>	<b>\$0.125</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$0.016	\$0.020	\$0.022	\$0.019	\$0.026	\$0.017	\$0.018	\$0.044	\$0.032	\$0.035	\$0.038	\$0.040
Energy Opportunities	\$0.030	\$0.031	\$0.024	\$0.026	\$0.020	\$0.017	\$0.029	\$0.039	\$0.048	\$0.077	\$0.083	\$0.085
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.025	\$0.027	\$0.058	\$0.051	\$0.191	\$0.436	\$0.114	\$0.078	\$0.078	\$0.064	\$0.069	\$0.082
Small Business	\$0.037	\$0.029	\$0.034	\$0.033	\$0.040	\$0.029	\$0.054	\$0.104	\$0.055	\$0.075	\$0.081	\$0.082
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.026</b>	<b>\$0.027</b>	<b>\$0.026</b>	<b>\$0.026</b>	<b>\$0.025</b>	<b>\$0.020</b>	<b>\$0.026</b>	<b>\$0.047</b>	<b>\$0.045</b>	<b>\$0.058</b>	<b>\$0.063</b>	<b>\$0.065</b>
<b>TOTAL</b>	<b>\$0.035</b>	<b>\$0.033</b>	<b>\$0.030</b>	<b>\$0.028</b>	<b>\$0.029</b>	<b>\$0.029</b>	<b>\$0.037</b>	<b>\$0.058</b>	<b>\$0.065</b>	<b>\$0.081</b>	<b>\$0.085</b>	<b>\$0.088</b>

Table D8 – United Illuminating Electric Historical and Projected Annual MMBtu

**Table D8**  
**United Illuminating Electric Historical and Projected Annual MMBtu**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	38,399	33,716	14,467	7,004	7,212	6,912
Residential New Construction	12,493	10,832	31,579	33,022	33,639	33,847
Home Energy Solutions (Core Services, HVAC, Duct Sealing through 2015)	70,861	58,209	71,855	45,347	43,623	42,972
HVAC & Domestic Water Heating	76,648	65,013	57,974	56,974	57,495	57,950
HES-Income Eligible	96,561	35,216	73,467	56,234	54,630	53,289
Residential Behavior	19,686	0	24,603	35,381	35,136	33,523
<b>Subtotal: Residential EE Portfolio</b>	<b>314,647</b>	<b>202,986</b>	<b>273,945</b>	<b>233,962</b>	<b>231,735</b>	<b>228,492</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	100,217	113,318	72,511	68,344	64,728	62,524
Energy Opportunities	149,139	168,822	78,831	86,630	80,653	78,249
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	53,944	42,734	71,015	55,649	55,632	54,031
Small Business	20,453	13,692	28,543	29,554	27,387	26,763
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>323,754</b>	<b>338,566</b>	<b>250,901</b>	<b>240,177</b>	<b>228,399</b>	<b>221,568</b>
<b>TOTAL</b>	<b>638,401</b>	<b>541,552</b>	<b>524,846</b>	<b>474,139</b>	<b>460,134</b>	<b>450,060</b>

Table D9 – United Illuminating Electric Historical and Projected Lifetime MMBtu

**Table D9**  
**United Illuminating Electric Historical and Projected Lifetime MMBtu**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential Retail Products	198,181	150,079	61,651	52,420	55,527	52,236
Residential New Construction	357,351	256,618	786,687	825,558	840,976	846,179
Home Energy Solutions	1,304,698	1,156,727	1,495,827	884,542	843,112	832,192
HVAC & Domestic Water Heating	1,480,320	1,221,008	1,126,569	1,065,939	1,080,765	1,089,841
HES-Income Eligible	1,912,108	724,956	1,431,670	1,143,963	1,120,068	1,101,107
Residential Behavior	41,340	-	49,207	70,762	70,272	67,045
<b>Subtotal: Residential EE Portfolio</b>	<b>5,293,997</b>	<b>3,509,388</b>	<b>4,951,612</b>	<b>4,043,184</b>	<b>4,010,721</b>	<b>3,988,600</b>
<b>Commercial &amp; Industrial</b>						
Energy Conscious Blueprint	1,519,783	1,669,768	1,151,508	1,099,189	1,048,291	1,015,059
Energy Opportunities	1,535,463	1,948,068	1,014,036	729,976	690,480	673,440
Business & Energy Sustainability (O&M, RCx, PRIME, CSP/SEM)	277,679	237,137	398,367	332,077	329,937	318,043
Small Business	247,109	165,222	330,467	264,292	247,522	242,236
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>3,580,033</b>	<b>4,020,195</b>	<b>2,894,378</b>	<b>2,425,535</b>	<b>2,316,230</b>	<b>2,248,778</b>
<b>TOTAL</b>	<b>8,874,030</b>	<b>7,529,583</b>	<b>7,845,990</b>	<b>6,468,719</b>	<b>6,326,951</b>	<b>6,237,378</b>



United Illuminating Electric PMI (2022)

**UNITED ILLUMINATING ELECTRIC**

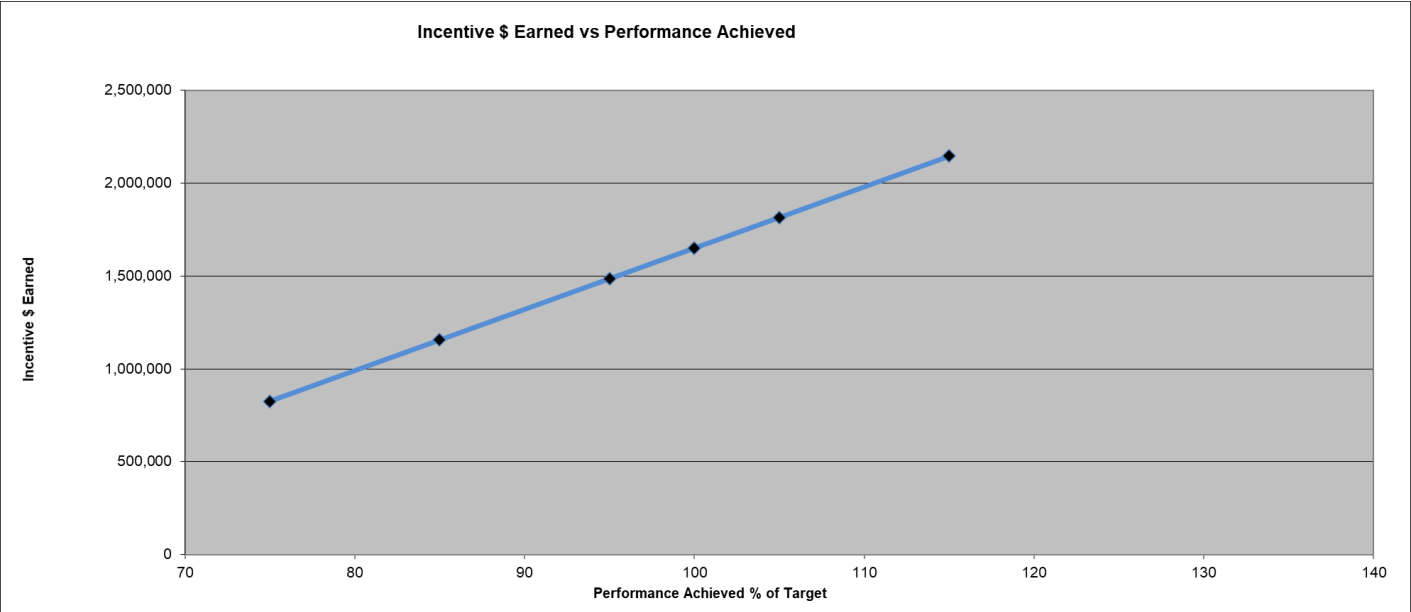
**2022 Management Incentive Performance Indicators and Incentive Matrix**

United Illuminating Electric and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected UI Performance Incentive is **\$1,650,539** and is based on achieving **100%** of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$33,010,781** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration**

<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
2.5%	\$825,270
3.5%	\$1,155,377
4.5%	\$1,485,485
<b>5.0%</b>	<b>\$1,650,539</b>
5.5%	\$1,815,593
6.5%	\$2,145,701

**\$33,010,781**  
**Goals will be prorated based on actual over/under spend of budget.**



**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators				Incentive Metrics					
Residential		Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
Residential Programs (Sector Level) Sector Budget	<b>\$11,592</b>						Sum of Modified Utility Benefit from Residential programs	Modified Utility Benefit from Res programs	0.2099	<b>\$346,448</b>	
		Retail Products	14,650,469	664	-7,727	38,209					
		New Construction	11,112,841	257	-	306,033					
		Home Energy Solutions	9,661,738	266	1,911,611	115,063					
		HVAC	14,914,977	338	1,015,424	261,268					
		HES-Income Eligible	7,589,497	160	1,797,963	191,374					
		Behavior	4,480,000	-	-	-					
		<b>Total</b>	<b>62,409,522</b>	<b>1,686</b>	<b>4,717,270</b>	<b>911,947</b>					
		Savings Rate	\$0.08034 /kWh	\$2,453.84 /kW	\$3.21	\$3.32					
		Savings	\$5,014,008	\$4,137,172	\$15,141,168	\$3,030,945					
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$15,731,203				\$15,731,203	0.2099	\$346,448	
Res Active Demand Response	<b>\$581</b>	Rei ADR			4,724	kW					
		Res ADR Savings	\$944,744	Resi ADR Savings Rate	\$200.01	\$/kW	Resi DR Benefit	\$944,744	0.0045	\$7,427	
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs			\$363,930			Net Benefit Resi DR	\$363,930	0.0045	\$7,427

**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$3,362</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$16,505</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$16,505</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).	Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$16,505</b>
Residential New Construction	<b>\$623</b>	The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).	Increase % of efficient new homes	X% of homes	0.0100	<b>\$16,505</b>

**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators	Incentive Metrics			
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions-Income Eligible	<b>\$16,944</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$16,505</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$16,505</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).	Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$16,505</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2022 through December 31, 2022 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2021 and achieve X% participation.	Achieve X% Participation		0.0200	<b>\$33,011</b>

**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators				Incentive Metrics			
Commercial & Industrial	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
C&I Programs (Sector Level) Sector Budget	<b>\$17,143</b>					Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$288,019</b>
	Energy Conscious Blueprint	123,311,597	1,063	-	-		<b>\$31,847,412</b>		
	Energy Opportunities	101,458,007	1,077	-	5,577				
	Business and Energy Sustainability	18,169,653	441	-	-				
	Small Business	50,641,679	715	-	6,804				
	<b>Total</b>	<b>293,580,936</b>	<b>3,296</b>	<b>-</b>	<b>12,381</b>				
	Savings Rate	\$0.08556 /kWh	\$2,028 /kW	-	-\$3.37				
	Savings	\$ 25,120,207	\$ 6,685,538	-	-\$41,667				
(1) percent of target goal									
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs			\$14,704,864		\$14,704,864	0.1745	<b>\$288,019</b>
C&I Active Demand Response	<b>\$316</b>	C&I ADR		2,008	kW				
		C&I ADR Savings	\$328,790	C&I ADR Savings Rate	\$163.76	\$/kW	C&I DR Benefit	\$328,790	0.0111
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs			\$12,814.69	Net Benefit C&I DR	\$12,815	0.0111	<b>\$18,321</b>

**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	\$7,818	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of all signed projects	0.0250	\$41,263
Energy Conscious Blueprint	\$4,350	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero.	Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	\$33,011
Small Business	\$3,817	Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of signed projects	0.0250	\$41,263
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average).	The Companies will track this data by using 2017-2021 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	\$6,190
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average).			0.00375	\$6,190
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average).			0.00375	\$6,190
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average).			0.00375	\$6,190

**United Illuminating Electric PMI (2022)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	<b>\$1,158</b>	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).	Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM  Minimum Elements	0.0150	<b>\$24,758</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.	Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$16,505</b>
<b>Total of Incentives</b>					<b>1.0000</b>	<b>\$1,650,539</b>

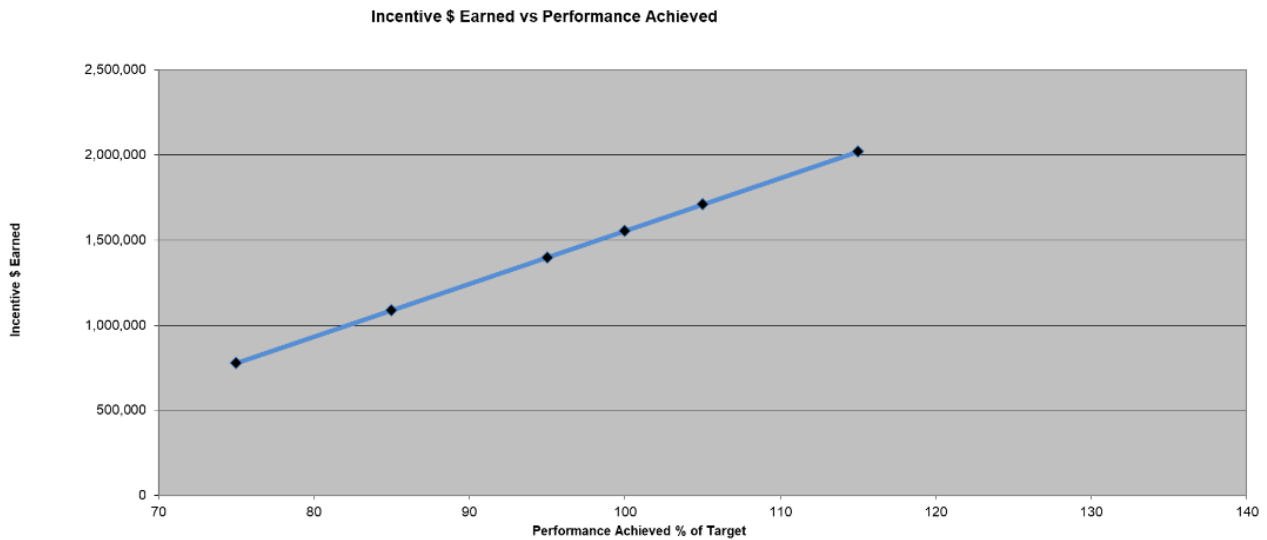
United Illuminating Electric PMI (2023)

**UNITED ILLUMINATING ELECTRIC**

United Illuminating and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected United Illuminating Performance Incentive is **\$1,554,600** and is based on achieving 100% of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$31,091,995** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

<u>Performance %</u>	<u>-Performance Incentive Illustration-</u>	
<u>Minimum</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$777,300
85	3.5%	\$1,088,220
95	4.5%	\$1,399,140
<b>100</b>	<b>5.0%</b>	<b>\$1,554,600</b>
105	5.5%	\$1,710,060
115	6.5%	\$2,020,980
<b>Maximum</b>		

Incentive Basis Budget **\$31,091,995**  
 Goals will be prorated based on actual over/under spend of budget.





**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators					Incentive Metrics				
Residential	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive		
Residential Programs (Sector Level) Sector Budget	<b>\$10,782</b>					Sum of Modified Utility Benefit from Res programs	Modified Utility Benefit from Residential programs	0.2099	<b>\$326,310</b>		
	Retail Products	15,413,764	669	-5,973	41,042						
	New Construction	9,190,55	213	-	273,819						
	Home Energy Solutions	10,978,185	258	1,494,702	25,903						
	HVAC	13,965,684	316	950,795	244,639						
	HES-Income Eligible	6,695,826	141	1,586,251	168,840						
	Behavior	4,256,000	-	-	-						
	<b>Total</b>	<b>60,500,013</b>	<b>1,598</b>	<b>4,025,774</b>	<b>754,242</b>						
	Savings Rate	\$0.08087 /kWh	\$2,356.19 / kW	\$ 3.33	\$3.41					<b>\$13,869,189</b>	
	Savings	\$4,892,621	\$3,765,195	\$13,417,465	\$2,575,446						
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$13,869,189			<b>\$ 1,144,665</b>	<b>0.2099</b>	<b>\$326,310</b>		
Resi Active Demand Response	<b>\$760</b>	Resi ADR			5,683	kW					
		Resi ADR Savings	\$1,144,665	Resi ADR Savings Rate	\$201.43	\$/kW	Resi DR Benefit	<b>\$1,144,665</b>	0.0045	<b>\$6,996</b>	
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs		\$385,089			Net Benefit Resi DR	<b>\$385,089</b>	0.0045	<b>\$6,996</b>	

**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators		Incentive Metrics			
Residential	\$			Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$3,105</b>			Energy Savings included in appropriate sector-level metric			
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).		Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$15,546</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).		Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$15,546</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).		Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$15,546</b>
Residential New Construction	<b>\$572</b>	Electric Savings LTKWh :	9,190,555				
		Demand Savings kw :	213				
		The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).		Increase % of efficient new homes	X% of homes	0.0100	<b>\$15,546</b>

**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions- Income Eligible	<b>\$4,187</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$15,546</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$15,546</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).	Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$15,546</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2022 through December 31, 2022 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2021 and achieve X% participation.	Achieve X% Participation		0.0200	<b>\$31,092</b>

**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators				Incentive Metrics				
Commercial & Industrial	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
C&I Programs (Sector Level) Sector Budget	<b>\$16,191</b>					Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$271,278</b>	
	Energy Conscious Blueprint	106,427,693	918	-	-					
	Energy Opportunities	80,035,210	933	-	5,577					
	Business and Energy Sustainability	15,976,354	371	-	-		<b>\$30,083,290</b>			
	Small Business	45,058,785	642	-	6,804					
	<b>Total</b>	<b>255,498,043</b>	<b>2,864</b>	<b>-</b>	<b>12,381</b>					
	Savings Rate	\$0.09339 /kWh	\$2,158 /kW	\$ -	\$ 3.48					
	Savings	\$ 23,860,277	\$ 6,179,893	\$ -	\$ 43,120					
	(1) percent of target goal									
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs			\$13,848,992		<b>\$13,848,992</b>	0.1745	<b>\$271,278</b>	
C&I Active Demand Response	<b>\$316</b>	C&I ADR			2,008	kW				
		C&I ADR Savings	\$492,773	C&I ADR Savings Rate	\$245.44	\$/kW	C&I DR Benefit	<b>\$492,773</b>	0.0111	<b>\$17,256</b>
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs				\$176,798.01	Net Benefit C&I DR	<b>\$176,798</b>	0.0111	<b>\$17,256</b>

**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	\$7,325	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X% +5%).	Continue to promote comprehensive projects	X% of all signed projects	0.0250	\$38,865
Energy Conscious Blueprint	\$4,092	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero.	Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	\$31,092
Small Business	\$3,667	Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).	Continue to promote comprehensive projects	X% of signed projects	0.0250	\$38,865
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average).	The Companies will track this data by using 2018-2022 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	\$5,830
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average).			0.00375	\$5,830
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average).			0.00375	\$5,830
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average).			0.00375	\$5,830

**United Illuminating Electric PMI (2023)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	<b>\$1,158</b>	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).	Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM Minimum Elements	0.0150	<b>\$23,319</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.	Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$15,546</b>
<b>Total of Incentives</b>					<b>1.0000</b>	<b>\$1,554,600</b>

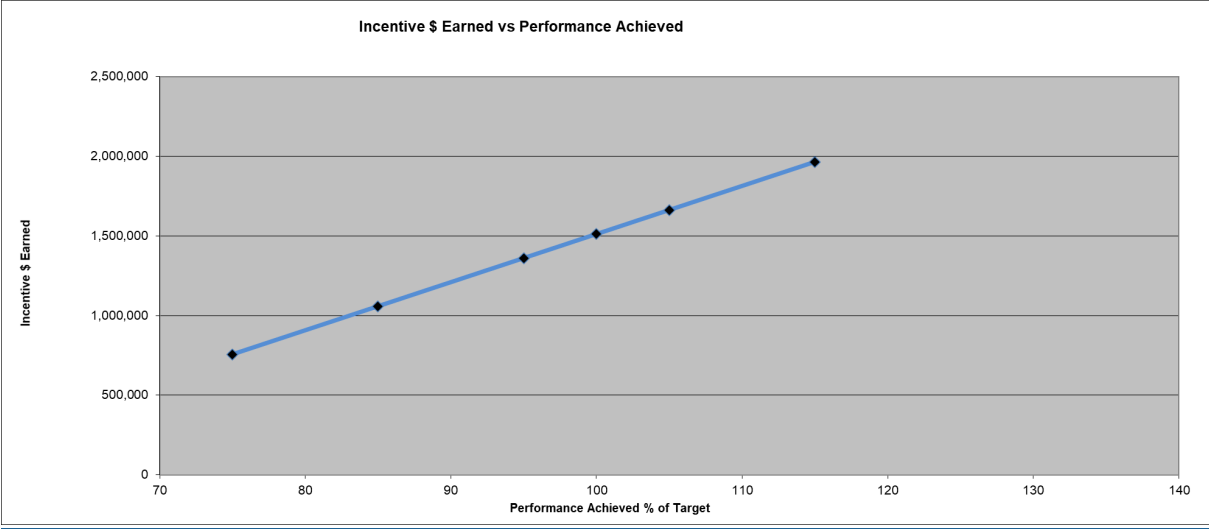
United Illuminating Electric PMI (2024)

**UNITED ILLUMINATING ELECTRIC**

United Illuminating and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected United Illuminating Performance Incentive is **\$1,511,319** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of \$134,359,581 as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

<u>Performance %</u> <u>Minimum</u>	<u>-Performance Incentive Illustration-</u> <u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$755,660
85	3.5%	\$1,057,923
95	4.5%	\$1,360,187
<b>100</b>	<b>5.0%</b>	<b>\$1,511,319</b>
105	5.5%	\$1,662,451
115	6.5%	\$1,964,715
<b>Maximum</b> <b>Incentive Basis Budget</b>	<b>\$30,226,381</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators					Incentive Metrics			
Residential	Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive	
Residential Programs (Sector Level) Sector Budget	<b>\$10,358</b>					Sum of Modified Utility Benefit from Res programs	Modified Utility Benefit from Residential programs	0.2099	<b>\$317,226</b>	
	Retail Products	14,563,903	660	-6,944	-					
	New Construction	8,294,514	204	-	257,712					
	Home Energy Solutions	10,210,457	240	1,390,174	24,092		<b>\$23,928,546</b>			
	HVAC	13,965,684	301	950,795	244,639					
	HES-Income Eligible	6,196,619	130	1,523,562	162,167					
	Behavior	4,043,136	-	-	-					
	<b>Total</b>	<b>57,274,313</b>	<b>1,534</b>	<b>3,857,586</b>	<b>726,846</b>					
	Savings Rate	\$0.07977 /kWh	\$2,285.63 /kW	\$ 3.45	\$ 3.52					
	Savings	\$4,568,871	\$3,506,155	\$ 13,292,321	\$2,561,200					
Net Modified Utility Benefit - Res.		Modified Utility Benefit less Program Costs		\$ 13,570,257			<b>\$13,570,257</b>	<b>0.2099</b>	<b>\$317,226</b>	
Resi Active Demand Response	<b>\$906</b>	Resi ADR			6,699	kW				
		Resi ADR Savings	\$1,375,250	Resi ADR Savings Rate	\$205.29	\$/kW	Resi DR Benefit	<b>\$1,375,250</b>	0.0045	<b>\$6,801</b>
Net Modified Utility Benefit Resi Active Demand Response		System Benefit less Program Costs		\$469,180		Net Benefit Resi DR	<b>\$469,180</b>	0.0045	<b>\$6,801</b>	



**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics			
Residential	\$			Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions	<b>\$20,631</b>			Energy Savings included in appropriate sector-level metric			
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).		Increase in HES savings per ducted home	Achieve X MMBtu in HES per single-family ducted home savings across	0.0100	<b>\$15,113</b>
		MMBtu per HES single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes).Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).		Increase in HES savings per non-ducted home	Achieve X MMBtu in HES per single-family non-ducted home savings across all fuels	0.0100	<b>\$15,113</b>
		Number of HES homes that receive insulation rebates divided by the number of homes that receive the HES Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baselines will be calculated for Eversource and United Illuminating individually).		Increase Homes being Weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$15,113</b>
Residential New Construction	<b>\$550</b>	Electric Savings LtkWh :	8,294,514				
		Demand Savings kw :	204				
		The weighted average percentage* of HERS rated participating units in the RNC program that achieve a HERS rating of 50 or less, based on the number of units in the previous year results plus 4.0% (X%+4%). *Weighted average percentage = (SF/SFA Tier 2 -4 quantity * SF/SFA Tier 2-4 percent of all SF/SFA activity + MF Tier 2 -4 quantity * MF Tier 2-4 percent of all MF activity) / (SF/SFA Tier 2-4 quantity + MF Tier 2-4 Quantity).		<b>Increase % of efficient new homes</b>	<b>X% of homes</b>	0.0100	<b>\$15,113</b>

**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Residential	\$		Incentive Metric	Target Goal	Weight	Incentive
Home Energy Solutions-Income Eligible	<b>\$4,049</b>		Energy Savings included in appropriate sector-level metric			
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per ducted home	Achieve X MMBtu in HES-IE per single-family ducted home savings across all fuels	0.0100	<b>\$15,113</b>
		MMBtu per HES-IE single-family home (not including lighting) for Core Services where ductwork is not present that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).	Increase in HES-IE savings per non-ducted home	Achieve X MMBtu in HES-IE per single-family non-ducted home savings across all fuels	0.0100	<b>\$15,113</b>
		Number of HES-IE homes that receive insulation divided by the number of homes that receive the HES-IE Assessments. Based on 2019 actuals for 2022, then based on the previous year's actuals thereafter plus 2.0% (X%+2%). (Baseline for 2022 will be 2019, for 2023 will be 2022 actuals, and for 2024 will be 2023 actuals. Baseline will be calculated with all the Companies together).	Increase in homes being weatherized	X% of homes that receive insulation rebates	0.0100	<b>\$15,113</b>
Equitable Distribution		The Companies will track the participation in 1-4 unit HES or HES-IE from January 1, 2022 through December 31, 2022 of all electric customers that are coded "hardship" (i.e., MPP, Eversource New Start and UI Forgiveness programs) on November 1, 2021 and achieve X% participation.	Achieve X% Participation		0.0200	<b>\$30,226</b>

**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators				Incentive Metrics				
Commercial & Industrial		Program Name	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
C&I Programs (Sector Level) Sector Budget	<b>\$15,743</b>						Sum of Modified Utility Benefit from C&I programs	Modified Utility Benefit from C&I programs	0.1745	<b>\$263,725</b>
		Energy Conscious Blueprint	99,426,558	857	-	-				
		Energy Opportunities	84,006,333	892	-	5,577				
		Business and Energy Sustainability	13,067,428	277	-	-				
		Small Business	43,890,040	625	-	6,804				
		<b>Total</b>	<b>240,390,358</b>	<b>2,651</b>	<b>-</b>	<b>12,381</b>				
		Savings Rate	\$0.09425 / kWh	\$2,114 / kW	\$ -	\$ 3.59				
		Savings	\$ 22,656,678	\$5,603,766	\$ -	\$44,448				
		(1) percent of target goal								
Net Modified Utility Benefit – C&I		Modified Utility Benefit less Program Costs				\$12,517,362		<b>\$12,517,362</b>	0.1745	<b>\$263,725</b>
C&I Active Demand Response	<b>\$316</b>	C&I ADR			4,180	kW				
		C&I ADR Savings	\$706,250	C&I ADR Savings Rate	\$168.98	\$/kW	C&I DR Benefit	<b>\$706,250</b>	0.0111	<b>\$16,776</b>
Net Modified Utility Benefit C&I Active Demand Response		System Benefit less Program Costs				\$390,275	Net Benefit C&I DR	<b>\$390,275</b>	0.0111	<b>\$16,776</b>

**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators				Incentive Metrics			
Commercial & Industrial	\$	LT-kWh	kW	LT Oil	LT Prop	Incentive Metric	Target Goal	Weight	Incentive
Energy Opportunities	\$7,100	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, and technical assistance for SEM, benchmarking. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including multiple end-use measures with BES counting as an end use. Based on Prior Year Actual results + 5% (X%+5%).				Continue to promote comprehensive projects	X% of all signed projects	0.0250	\$37,783
Energy Conscious Blueprint	\$3,967	Number of new construction/major renovation projects that are more efficient than the State Energy Code and are: 30% > ASHRAE 90.1-2013 or IECC 2015, or utilize Whole Building Performance, or Near Net Zero.				Continue to advance projects that are more efficient than the State Energy	50% of signed projects	0.0200	\$30,226
Small Business	\$3,603	Electric Savings LTkWh :	43,890,040						
		Demand Savings kw :		625					
		Develop and implement comprehensive projects. Offerings will consist of a tailored combination of measure and service bundles, and energy management. Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Based on Prior Year Actual results + 5% (X%+5%).				Continue to promote comprehensive projects	X% of signed projects	0.0250	\$37,783
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average).				The Companies will track this data by using 2019-2023 data as a baseline to evaluate customer savings. The customers addressed by this KPI are customers who have not participated over the past 5 years.		0.00375	\$5,667
	Quartile 2 Financial, Real Estate & Insurance	The Companies will increase savings from customers in the Quartile 2 Financial, Real Estate & Insurance sector by 3% (relative to baseline average).						0.00375	\$5,667
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average).						0.00375	\$5,667
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average).						0.00375	\$5,667

**United Illuminating Electric PMI (2024)(continued)**

Sector		Performance Indicators		Incentive Metrics		
Commercial & Industrial	\$		Incentive Metric	Target Goal	Weight	Incentive
Strategic Energy Management	<b>\$1,158</b>	The Companies will engage 10 companies that are part of a cohort (one or more) with each company saving a minimum of 10 annual MWh and the Companies also will engage with 10 individual companies with each company's savings a minimum of 25 annual MWh. SEM savings will be measured and claimed as per CEE SEM Minimum Elements. Based on the above the participation goal is 20 total companies with savings (10 as part of a cohort and 10 individuals).	Promote Strategic Energy Management (SEM) Initiatives	20 CEE SEM Minimum Elements	0.0150	<b>\$22,670</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.	Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$15,113</b>
<b>Total of Incentives</b>					<b>1.0000</b>	<b>\$1,511,319</b>

**E.5 COMBINED NATURAL GAS BUDGET AND SAVINGS TABLES**

Combined Natural Gas Table A1 (2022)

**Table A1  
EVERSOURCE CT GAS, CNG, and SCG  
2022-2024 Natural Gas Budget**

2022 Natural Gas EE Budget	2022 Eversource CT Gas Proposed Budget 11/01/21	2022 CNG Proposed Budget 11/01/21	2022 SCG Proposed Budget 11/01/21	2022 Eversource CT Gas/ CNG/SCG Combined Total 11/01/21
<b>RESIDENTIAL</b>				
Residential New Construction	\$ 635,403	\$ 677,884	\$ 894,921	\$ 2,208,208
Home Energy Solutions	\$ 2,214,576	\$ 2,911,381	\$ 1,596,867	\$ 6,722,824
HVAC & Domestic Water Heating	\$ 4,585,934	\$ 1,825,036	\$ 2,918,842	\$ 9,329,812
HES-Income Eligible	\$ 4,149,666	\$ 3,937,478	\$ 2,852,125	\$ 10,939,269
Residential Behavior	\$ 10,000	\$ 149,033	\$ 146,052	\$ 305,085
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 11,595,579</b>	<b>\$ 9,500,811</b>	<b>\$ 8,408,808</b>	<b>\$ 29,505,198</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>				
Energy Conscious Blueprint	\$ 4,140,857	\$ 2,018,487	\$ 1,608,506	\$ 7,767,850
Energy Opportunities	\$ 3,769,533	\$ 1,147,575	\$ 1,059,521	\$ 5,976,629
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 715,350	\$ 665,196	\$ 472,119	\$ 1,852,664
Small Business	\$ 736,472	\$ 310,869	\$ 231,969	\$ 1,279,309
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 9,362,211</b>	<b>\$ 4,142,127</b>	<b>\$ 3,372,115</b>	<b>\$ 16,876,453</b>
<b>OTHER - LOAD MANAGEMENT</b>				
Residential Demand Response	\$ -	\$ 51,485	\$ 155,468	\$ 206,953
C&I Demand Response	\$ -	\$ 140,292	\$ 140,292	\$ 280,584
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$ 191,777</b>	<b>\$ 295,760</b>	<b>\$ 487,537</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>				
Energy Education	\$ 76,667	\$ 76,667	\$ 76,667	\$ 230,000
Workforce Development	\$ 82,667	\$ 82,667	\$ 82,667	\$ 248,000
Community Outreach	\$ 80,000	\$ 80,000	\$ 80,000	\$ 240,000
Customer Engagement Initiative	\$ 70,000	\$ 50,000	\$ 50,000	\$ 170,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 309,333</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>	<b>\$ 888,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>				
Residential Loan Program (includes ECLF/OBR)	\$ 84,523	\$ 86,292	\$ 86,292	\$ 257,107
C&I Financing Support	\$ 93,905	\$ 20,000	\$ 75,000	\$ 188,905
Research, Development and Demonstration	\$ 50,000	\$ 50,000	\$ 50,000	\$ 150,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 228,428</b>	<b>\$ 156,292</b>	<b>\$ 211,292</b>	<b>\$ 596,012</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>				
Administration	\$ 150,933	\$ 159,218	\$ 159,219	\$ 469,370
Marketing Plan	\$ 40,100	\$ 40,100	\$ 40,100	\$ 120,300
Planning	\$ 79,158	\$ 102,465	\$ 102,465	\$ 284,088
Evaluation Measurement and Verification	\$ 300,000	\$ 300,000	\$ 300,000	\$ 900,000
Evaluation Administrator	\$ 29,607	\$ 29,607	\$ 29,607	\$ 88,821
Information Technology	\$ 140,726	\$ 574,589	\$ 540,590	\$ 1,255,904
Energy Efficiency Board Consultants	\$ 53,333	\$ 53,333	\$ 53,333	\$ 159,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive	\$ 1,110,323	\$ 772,836	\$ 685,984	\$ 2,569,143
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 1,914,180</b>	<b>\$ 2,042,147</b>	<b>\$ 1,921,298</b>	<b>\$ 5,877,626</b>
<b>TOTAL</b>	<b>\$ 23,409,733</b>	<b>\$ 16,322,487</b>	<b>\$ 14,498,605</b>	<b>\$ 54,230,826</b>

Combined Natural Gas Table A1 (2023)

**Table A1  
EVERSOURCE CT GAS, CNG, and SCG  
2022-2024 Natural Gas Budget**

2023 Natural Gas EE Budget	2023 Eversource CT Gas Proposed Budget 11/01/21	2023 CNG Proposed Budget 11/01/21	2023 SCG Proposed Budget 11/01/21	2023 Eversource CT Gas/ CNG/SCG Combined Total 11/01/21
<b>RESIDENTIAL</b>				
Residential New Construction	\$ 635,403	\$ 692,644	\$ 927,086	\$ 2,255,133
Home Energy Solutions	\$ 2,437,902	\$ 2,974,775	\$ 1,654,261	\$ 7,066,938
HVAC & Domestic Water Heating	\$ 4,641,653	\$ 1,865,615	\$ 3,021,171	\$ 9,528,440
HES-Income Eligible	\$ 4,217,953	\$ 4,020,763	\$ 2,954,634	\$ 11,193,350
Residential Behavior	\$ 10,000	\$ 152,278	\$ 152,140	\$ 314,418
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 11,942,911</b>	<b>\$ 9,706,075</b>	<b>\$ 8,709,292</b>	<b>\$ 30,358,277</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>				
Energy Conscious Blueprint	\$ 4,285,543	\$ 2,062,439	\$ 1,675,551	\$ 8,023,533
Energy Opportunities	\$ 3,912,565	\$ 1,172,502	\$ 1,099,050	\$ 6,184,117
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 727,122	\$ 679,680	\$ 491,797	\$ 1,898,599
Small Business	\$ 751,883	\$ 317,638	\$ 241,638	\$ 1,311,158
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 9,677,112</b>	<b>\$ 4,232,258</b>	<b>\$ 3,508,036</b>	<b>\$ 17,417,407</b>
<b>OTHER - LOAD MANAGEMENT</b>				
Residential Demand Response	\$ -	\$ 108,119	\$ 163,650	\$ 271,769
C&I Demand Response	\$ -	\$ 144,501	\$ 157,376	\$ 301,877
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$ 252,619</b>	<b>\$ 321,026</b>	<b>\$ 573,645</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>				
Energy Education	\$ 76,667	\$ 76,667	\$ 76,667	\$ 230,000
Workforce Development	\$ 82,667	\$ 82,667	\$ 82,667	\$ 248,000
Community Outreach	\$ 80,000	\$ 80,000	\$ 80,000	\$ 240,000
Customer Engagement Initiative	\$ 70,000	\$ 50,000	\$ 50,000	\$ 170,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 309,333</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>	<b>\$ 888,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>				
Residential Loan Program (includes ECLF/OBR)	\$ 84,523	\$ 86,292	\$ 86,292	\$ 257,107
C&I Financing Support	\$ 93,905	\$ 20,000	\$ 75,000	\$ 188,905
Research, Development and Demonstration	\$ 50,000	\$ 50,000	\$ 50,000	\$ 150,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 228,428</b>	<b>\$ 156,292</b>	<b>\$ 211,292</b>	<b>\$ 596,012</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>				
Administration	\$ 150,933	\$ 159,218	\$ 159,219	\$ 469,370
Marketing Plan	\$ 40,100	\$ 40,100	\$ 40,100	\$ 120,300
Planning	\$ 79,158	\$ 102,465	\$ 102,465	\$ 284,088
Evaluation Measurement and Verification	\$ 300,000	\$ 300,000	\$ 300,000	\$ 900,000
Evaluation Administrator	\$ 29,607	\$ 29,607	\$ 29,607	\$ 88,821
Information Technology	\$ 140,726	\$ 274,589	\$ 263,590	\$ 678,904
Energy Efficiency Board Consultants	\$ 53,333	\$ 53,333	\$ 53,333	\$ 159,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive	\$ 1,143,435	\$ 775,647	\$ 695,218	\$ 2,614,300
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 150,933</b>	<b>\$ 159,218</b>	<b>\$ 159,219</b>	<b>\$ 469,370</b>
<b>TOTAL</b>	<b>\$ 24,105,077</b>	<b>\$ 16,381,537</b>	<b>\$ 14,692,511</b>	<b>\$ 55,179,125</b>

Combined Natural Gas Table A1 (2024)

**Table A1  
EVERSOURCE CT GAS, CNG, and SCG  
2022-2024 Natural Gas Budget**

2024 Natural Gas EE Budget	2024 Eversource CT Gas Proposed Budget 11/01/21	2024 CNG Proposed Budget 11/01/21	2024 SCG Proposed Budget 11/01/21	2024 Eversource CT Gas/ CNG/SCG Combined Total 11/01/21
<b>RESIDENTIAL</b>				
Residential New Construction	\$ 635,403	\$ 696,740	\$ 938,626	\$ 2,270,769
Home Energy Solutions	\$ 2,853,980	\$ 2,992,367	\$ 1,674,853	\$ 7,521,200
HVAC & Domestic Water Heating	\$ 4,641,653	\$ 1,874,345	\$ 3,057,929	\$ 9,573,927
HES-Income Eligible	\$ 4,217,953	\$ 4,044,542	\$ 2,991,413	\$ 11,253,908
Residential Behavior	\$ 10,000	\$ 153,178	\$ 154,034	\$ 317,212
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 12,358,989</b>	<b>\$ 9,761,173</b>	<b>\$ 8,816,855</b>	<b>\$ 30,937,016</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>				
Energy Conscious Blueprint	\$ 4,285,543	\$ 2,074,000	\$ 1,696,408	\$ 8,055,951
Energy Opportunities	\$ 3,914,766	\$ 1,179,436	\$ 1,112,731	\$ 6,206,933
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 727,122	\$ 683,699	\$ 497,919	\$ 1,908,740
Small Business	\$ 751,883	\$ 319,516	\$ 244,646	\$ 1,316,044
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 9,679,313</b>	<b>\$ 4,256,651</b>	<b>\$ 3,551,704</b>	<b>\$ 17,487,669</b>
<b>OTHER - LOAD MANAGEMENT</b>				
Residential Demand Response	\$ -	\$ 113,524	\$ 171,833	\$ 285,357
C&I Demand Response	\$ -	\$ 148,836	\$ 162,097	\$ 310,933
<b>Subtotal: Load Management</b>	<b>\$ -</b>	<b>\$ 262,360</b>	<b>\$ 333,930</b>	<b>\$ 596,290</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>				
Energy Education	\$ 76,667	\$ 76,667	\$ 76,667	\$ 230,000
Workforce Development	\$ 82,667	\$ 82,667	\$ 82,667	\$ 248,000
Community Outreach	\$ 80,000	\$ 80,000	\$ 80,000	\$ 240,000
Customer Engagement Initiative	\$ 70,000	\$ 50,000	\$ 50,000	\$ 170,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 309,333</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>	<b>\$ 888,000</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>				
Residential Loan Program (includes ECLF/OBR)	\$ 84,523	\$ 86,292	\$ 86,292	\$ 257,107
C&I Financing Support	\$ 93,905	\$ 20,000	\$ 75,000	\$ 188,905
Research, Development and Demonstration	\$ 50,000	\$ 50,000	\$ 50,000	\$ 150,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 228,428</b>	<b>\$ 156,292</b>	<b>\$ 211,292</b>	<b>\$ 596,012</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>				
Administration	\$ 150,933	\$ 159,218	\$ 159,219	\$ 469,370
Marketing Plan	\$ 40,100	\$ 40,100	\$ 40,100	\$ 120,300
Planning	\$ 79,158	\$ 102,465	\$ 102,465	\$ 284,088
Evaluation Measurement and Verification	\$ 300,000	\$ 300,000	\$ 300,000	\$ 900,000
Evaluation Administrator	\$ 29,607	\$ 29,607	\$ 29,607	\$ 88,821
Information Technology	\$ 140,726	\$ 250,589	\$ 241,590	\$ 632,904
Energy Efficiency Board Consultants	\$ 53,333	\$ 53,333	\$ 53,333	\$ 159,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive	\$ 1,164,349	\$ 778,909	\$ 702,324	\$ 2,645,582
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 1,968,206</b>	<b>\$ 1,724,221</b>	<b>\$ 1,638,638</b>	<b>\$ 5,331,066</b>
<b>TOTAL</b>	<b>\$ 24,544,270</b>	<b>\$ 16,450,030</b>	<b>\$ 14,841,752</b>	<b>\$ 55,836,052</b>



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**Combined Natural Gas Table A2 (2021-2024)**

**Table A2**  
**Eversource CT Gas, CNG, and SCG**  
**2021-2024 Natural Gas Revenues**

Natural Gas EE Revenues	2021 Eversource CT Gas Revenues 03/01/2021	2021 CNG Revenues 03/01/2021	2021 SCG Revenues 03/01/2021	2021 Combined Eversource CT Gas/CNG/SCG Total	2022 Eversource CT Gas Revenues 11/01/2021	2022 CNG Revenues 11/01/2021	2022 SCG Revenues 11/01/2021	2022 Combined Eversource CT Gas/CNG/SCG Total
Conservation Adjustment Mechanism (CAM)	\$23,227,356	\$ 13,490,545	\$13,350,257	\$50,068,158	\$23,409,733	\$16,322,487	\$14,498,605	\$ 54,230,826
Prior Period Over/(Under) Collections	\$(3,319,814)	\$( 2,210,145)	\$(1,755,578)	\$(7,285,537)	\$ -	\$ -	\$ -	\$ -
Prior Period Under/(Over) Budget	\$ 797,645	\$ 5,102,519	\$ 3,188,750	\$ 9,088,914	\$ -	\$ -	\$ -	\$ -
Interest Due to Company/Other Revenues	\$ -	\$ 368,376	\$ 309,972	\$ 678,348	\$ -	\$ -	\$ -	\$ -
<b>Total Revenues</b>	<b>\$ 20,705,187</b>	<b>\$ 16,751,296</b>	<b>\$15,093,401</b>	<b>\$52,549,884</b>	<b>\$23,409,733</b>	<b>\$16,322,487</b>	<b>\$14,498,605</b>	<b>\$ 54,230,826</b>

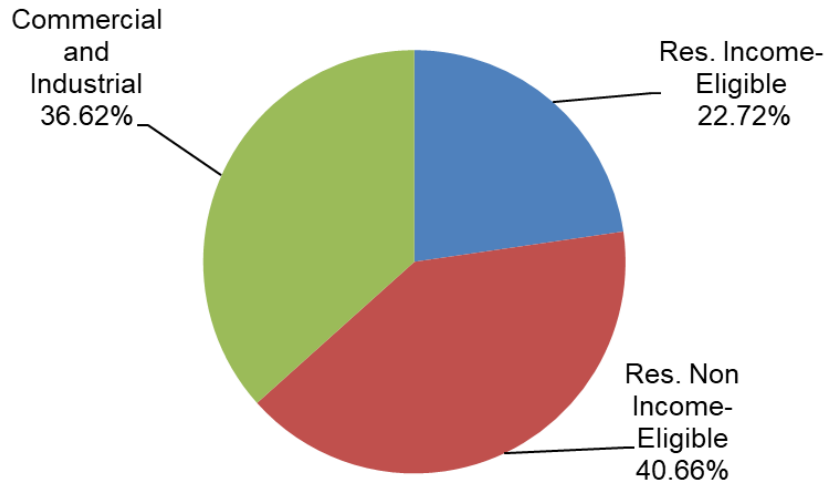
Natural Gas EE Revenues	2023 Eversource CT Gas Revenues 11/01/2021	2023 CNG Revenues 11/01/2021	2023 SCG Revenues 11/01/2021	2023 Combined Eversource CT Gas/CNG/SCG Total	2024 Eversource CT Gas Revenues 11/01/2021	2024 CNG Revenues 11/01/2021	2024 SCG Revenues 11/01/2021	2024 Combined Eversource CT Gas/CNG/SCG Total
Conservation Adjustment Mechanism (CAM)	\$ 24,105,077	\$ 16,381,537	\$14,692,511	\$ 55,179,125	\$24,544,270	\$16,450,030	\$14,841,752	\$ 55,836,052
<b>Total Revenues</b>	<b>\$ 24,105,077</b>	<b>\$ 16,381,537</b>	<b>\$14,692,511</b>	<b>\$ 55,179,125</b>	<b>\$24,544,270</b>	<b>\$16,450,030</b>	<b>\$14,841,752</b>	<b>\$ 55,836,052</b>

All Figures are net of GET. All Companies are decoupled.

Combined Natural Gas Table A1 Pie Chart (2022)

Statewide 2022 Update Budget Analysis  
Table A1 Pie Chart

**Budget by Customer Class**

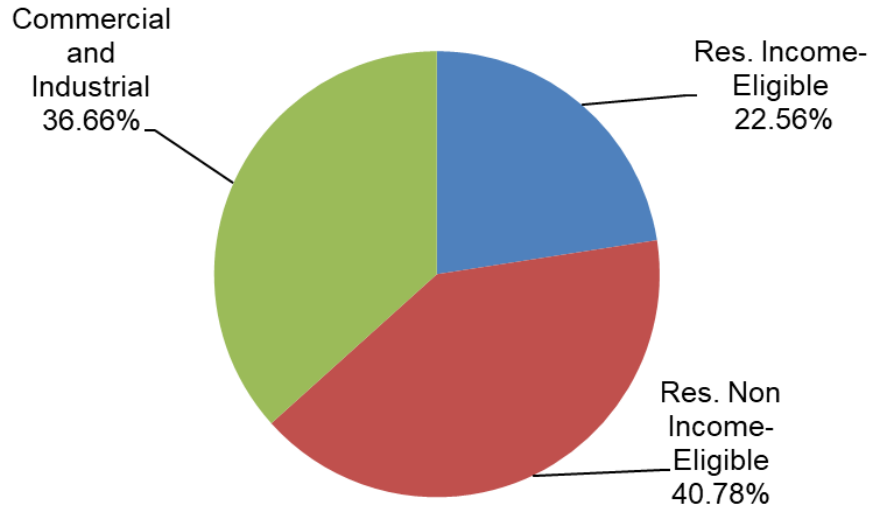


Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$10,981,531	20.25%	22.72%
Res. Non Income-Eligible	\$19,647,967	36.23%	40.66%
<b>Residential Subtotal</b>	<b>\$30,629,498</b>	<b>56.48%</b>	<b>63.38%</b>
Commercial and Industrial	\$17,694,002	32.63%	36.62%
<b>C&amp;I Subtotal</b>	<b>\$17,694,002</b>	<b>32.63%</b>	<b>36.62%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$48,323,500</b>	<b>89.11%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$5,907,325	10.89%	
<b>Other Expenditures Subtotal</b>	<b>\$5,907,325</b>	<b>10.89%</b>	
<b>TOTAL</b>	<b>\$54,230,826</b>	<b>100.00%</b>	
<b>ES CT Gas</b>	<b>\$23,409,733</b>	<b>43.17%</b>	
<b>CNG</b>	<b>\$16,322,487</b>	<b>30.10%</b>	
<b>SCG</b>	<b>\$14,498,605</b>	<b>26.73%</b>	

Combined Natural Gas Table A1 Pie Chart (2023)

Statewide 2023 Update Budget Analysis  
Table A1 Pie Chart

**Budget by Customer Class**

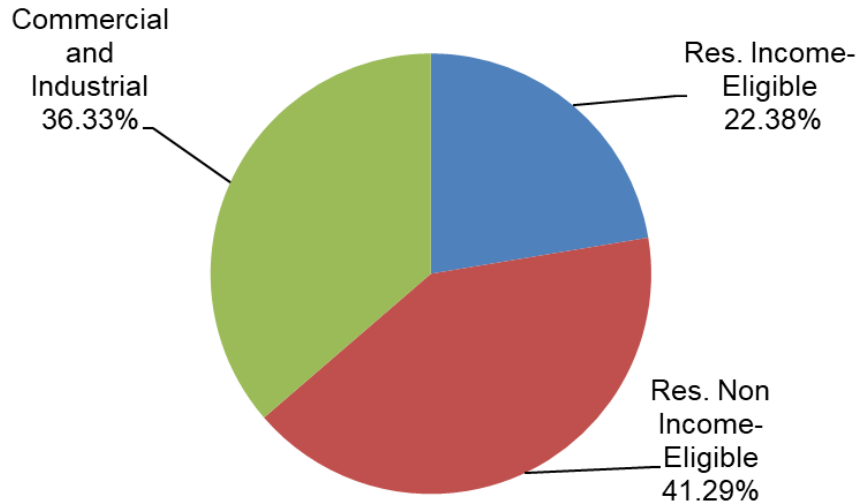


Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$11,235,611	20.36%	22.56%
Res. Non Income-Eligible	\$20,311,782	36.81%	40.78%
<b>Residential Subtotal</b>	<b>\$31,547,393</b>	<b>57.17%</b>	<b>63.34%</b>
Commercial and Industrial	\$18,256,249	33.09%	36.66%
<b>C&amp;I Subtotal</b>	<b>\$18,256,249</b>	<b>33.09%</b>	<b>36.66%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$49,803,642</b>	<b>90.26%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$5,375,483	9.74%	
<b>Other Expenditures Subtotal</b>	<b>\$5,375,483</b>	<b>9.74%</b>	
<b>TOTAL</b>	<b>\$55,179,125</b>	<b>100.00%</b>	
ES CT Gas	\$24,105,077	43.69%	
CNG	\$16,381,537	29.69%	
SCG	\$14,692,511	26.63%	

Combined Natural Gas Table A1 Pie Chart (2024)

Statewide 2024 Update Budget Analysis  
Table A1 Pie Chart

**Budget by Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$11,296,169	20.23%	22.38%
Res. Non Income-Eligible	\$20,843,551	37.33%	41.29%
<b>Residential Subtotal</b>	<b>\$32,139,720</b>	<b>57.56%</b>	<b>63.67%</b>
Commercial and Industrial	\$18,335,567	32.84%	36.33%
<b>C&amp;I Subtotal</b>	<b>\$18,335,567</b>	<b>32.84%</b>	<b>36.33%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$50,475,287</b>	<b>90.40%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$5,360,765	9.60%	
<b>Other Expenditures Subtotal</b>	<b>\$5,360,765</b>	<b>9.60%</b>	
<b>TOTAL</b>	<b>\$55,836,052</b>	<b>100.00%</b>	
<b>ES CT Gas</b>	<b>\$24,544,270</b>	<b>43.96%</b>	
<b>CNG</b>	<b>\$16,450,030</b>	<b>29.46%</b>	
<b>SCG</b>	<b>\$14,841,752</b>	<b>26.58%</b>	

Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

**E.6 EVERSOURCE (NATURAL GAS) BUDGET AND SAVINGS TABLES**

Table A – Eversource Natural Gas (2020-2024)

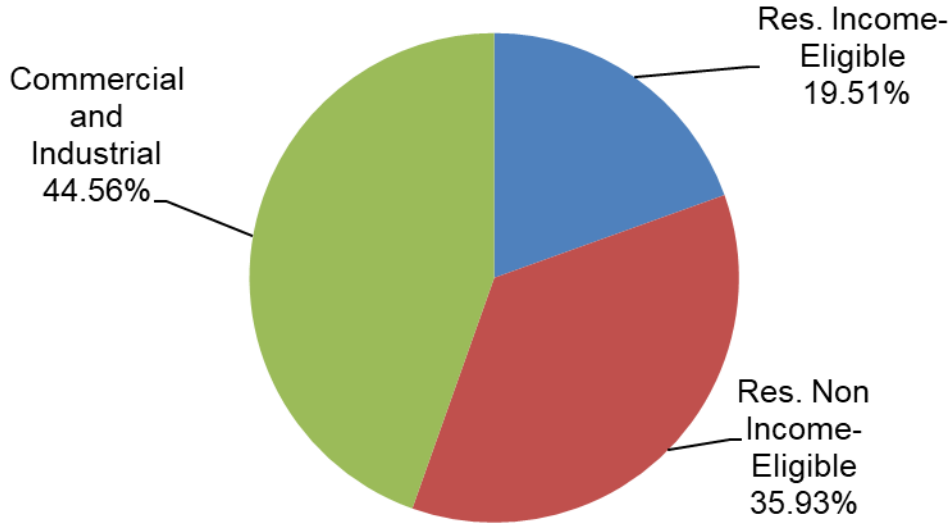
**Table A**  
**Eversource CT Gas Service Company**  
**2020-2024 Natural Gas Conservation Budget**

Eversource CT Gas EE Budget	2020 Eversource CT Gas Actual Results 12/31/2020	2021 Eversource CT Gas Proposed Budget 3/1/2021	2022 Eversource CT Gas Proposed Budget 11/1/2021	2023 Eversource CT Gas Proposed Budget 11/1/2021	2024 Eversource CT Gas Proposed Budget 11/1/2021
<b>RESIDENTIAL</b>					
Residential New Construction	\$ 489,620	\$ 887,629	\$ 635,403	\$ 635,403	\$ 635,403
Home Energy Solutions	\$ 2,893,620	\$ 1,949,441	\$ 2,214,576	\$ 2,437,902	\$ 2,853,980
HVAC & Domestic Water Heating	\$ 4,573,515	\$ 3,096,217	\$ 4,585,934	\$ 4,641,653	\$ 4,641,653
HES-Income Eligible	\$ 4,303,596	\$ 3,792,458	\$ 4,149,666	\$ 4,217,953	\$ 4,217,953
Residential Behavior	\$ -	\$ -	\$ 10,000	\$ 10,000	\$ 10,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 12,260,351</b>	<b>\$ 9,725,745</b>	<b>\$ 11,595,579</b>	<b>\$ 11,942,911</b>	<b>\$ 12,358,989</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>					
Energy Conscious Blueprint	\$ 3,510,955	\$ 3,815,820	\$ 4,140,857	\$ 4,285,543	\$ 4,285,543
Energy Opportunities	\$ 3,377,127	\$ 3,555,712	\$ 3,769,533	\$ 3,912,565	\$ 3,914,766
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 645,936	\$ 592,154	\$ 715,350	\$ 727,122	\$ 727,122
Small Business	\$ 125,273	\$ 775,196	\$ 736,472	\$ 751,883	\$ 751,883
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 7,659,291</b>	<b>\$ 8,738,881</b>	<b>\$ 9,362,211</b>	<b>\$ 9,677,112</b>	<b>\$ 9,679,313</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>					
Energy Education	\$ 33,239	\$ 45,164	\$ 76,667	\$ 76,667	\$ 76,667
Workforce Development	\$ 42,041	\$ 36,774	\$ 82,667	\$ 82,667	\$ 82,667
Community Outreach	\$ 34,537	\$ 123,642	\$ 80,000	\$ 80,000	\$ 80,000
Customer Engagement Initiative	\$ 197,010	\$ 232,000	\$ 70,000	\$ 70,000	\$ 70,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 306,829</b>	<b>\$ 437,581</b>	<b>\$ 309,333</b>	<b>\$ 309,333</b>	<b>\$ 309,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>					
Residential Loan Program (includes ECLF and OBR)	\$ 99,172	\$ 84,523	\$ 84,523	\$ 84,523	\$ 84,523
C&I Financing Support	\$ -	\$ 93,905	\$ 93,905	\$ 93,905	\$ 93,905
Research, Development and Demonstration	\$ 15,680	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 114,852</b>	<b>\$ 228,428</b>	<b>\$ 228,428</b>	<b>\$ 228,428</b>	<b>\$ 228,428</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>					
Administration	\$ 121,815	\$ 150,933	\$ 150,933	\$ 150,933	\$ 150,933
Marketing Plan	\$ 35,467	\$ 40,100	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 136,377	\$ 79,158	\$ 79,158	\$ 79,158	\$ 79,158
Evaluation Measurement and Verification	\$ 200,000	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000
Evaluation Administrator	\$ 25,798	\$ 21,931	\$ 29,607	\$ 29,607	\$ 29,607
Information Technology	\$ 122,356	\$ 140,726	\$ 140,726	\$ 140,726	\$ 140,726
Energy Efficiency Board Consultants	\$ 44,501	\$ 43,333	\$ 53,333	\$ 53,333	\$ 53,333
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Performance Management Incentive	\$ 1,277,162	\$ 888,370	\$ 1,110,323	\$ 1,143,435	\$ 1,164,349
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 1,973,476</b>	<b>\$ 1,574,552</b>	<b>\$ 1,914,180</b>	<b>\$ 1,947,292</b>	<b>\$ 1,968,206</b>
<b>TOTAL</b>	<b>\$ 22,314,798</b>	<b>\$ 20,705,187</b>	<b>\$ 23,409,733</b>	<b>\$ 24,105,077</b>	<b>\$ 24,544,270</b>

Table A Pie Chart - Eversource Natural Gas (2022)

Eversource CT Gas  
2022 Budget Analysis

**Budget by Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$4,191,928	17.91%	19.51%
Res. Non Income-Eligible	\$7,718,922	32.97%	35.93%
<b>Residential Subtotal</b>	<b>\$11,910,849</b>	<b>50.88%</b>	<b>55.44%</b>
Commercial and Industrial	\$9,574,804	40.90%	44.56%
<b>C&amp;I Subtotal</b>	<b>\$9,574,804</b>	<b>40.90%</b>	<b>44.56%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$21,485,653</b>	<b>91.78%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,924,080	8.22%	
<b>Other Expenditures Subtotal</b>	<b>\$1,924,080</b>	<b>8.22%</b>	
<b>TOTAL</b>	<b>\$23,409,733</b>	<b>100.00%</b>	

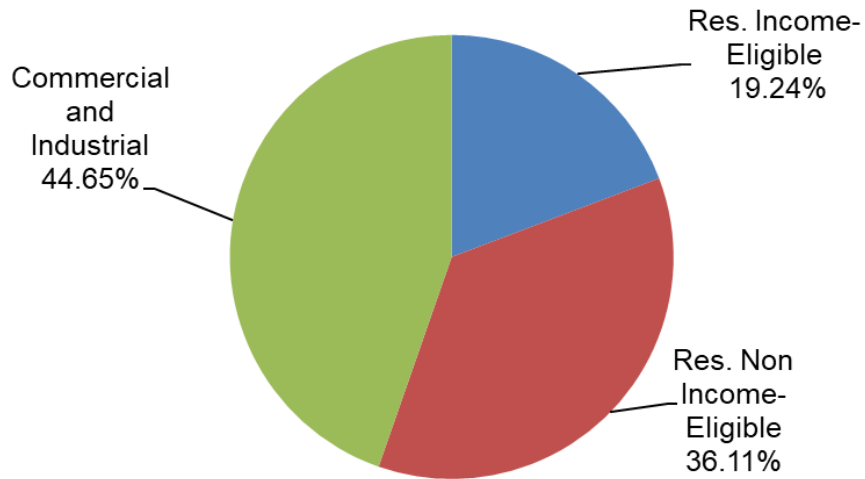
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Table A Pie Chart - Eversource Natural Gas (2023)

Eversource CT Gas  
2023 Budget Analysis

**Budget by Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$4,260,214	17.67%	19.24%
Res. Non Income-Eligible	\$7,997,967	33.18%	36.11%
<b>Residential Subtotal</b>	<b>\$12,258,181</b>	<b>50.85%</b>	<b>55.35%</b>
Commercial and Industrial	\$9,889,704	41.03%	44.65%
<b>C&amp;I Subtotal</b>	<b>\$9,889,704</b>	<b>41.03%</b>	<b>44.65%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$22,147,885</b>	<b>91.88%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,957,192	8.12%	
<b>Other Expenditures Subtotal</b>	<b>\$1,957,192</b>	<b>8.12%</b>	
<b>TOTAL</b>	<b>\$24,105,077</b>	<b>100.00%</b>	

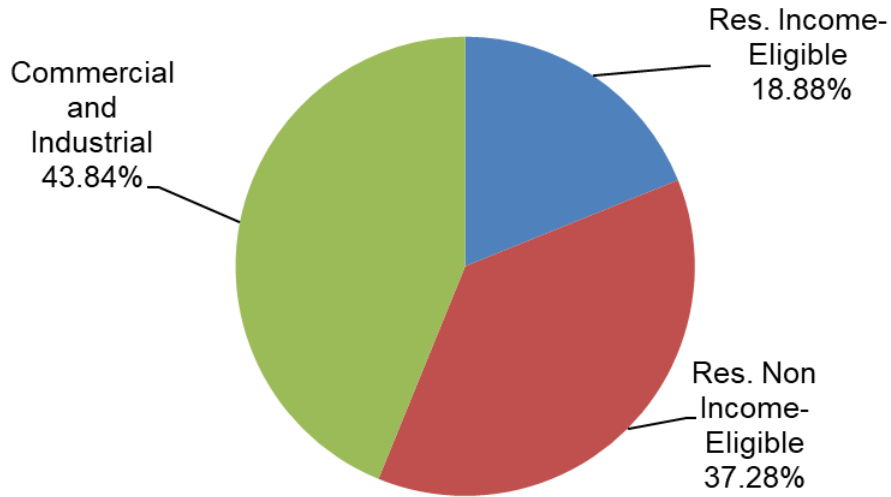
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Table A Pie Chart - Eversource Natural Gas (2024)

Eversource CT Gas  
2024 Budget Analysis

**Budget by Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$4,260,214	17.36%	18.88%
Res. Non Income-Eligible	\$8,414,045	34.28%	37.28%
<b>Residential Subtotal</b>	<b>\$12,674,259</b>	<b>51.64%</b>	<b>56.16%</b>
Commercial and Industrial	\$9,891,905	40.30%	43.84%
<b>C&amp;I Subtotal</b>	<b>\$9,891,905</b>	<b>40.30%</b>	<b>43.84%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$22,566,164</b>	<b>91.94%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,978,106	8.06%	
<b>Other Expenditures Subtotal</b>	<b>\$1,978,106</b>	<b>8.06%</b>	
<b>TOTAL</b>	<b>\$24,544,270</b>	<b>100.00%</b>	

Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.



Eversource Natural Gas Table A Budget Allocation (2022-2024)

Table A Pie Sector Allocation			
	Residential	C&I	Other
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	80%	20%	0%
Workforce Development	50%	50%	0%
Community Outreach	50%	50%	0%
Customer Engagement Initiative	80%	20%	0%
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	0%	0%	100%
Marketing Plan	80%	20%	0%
Planning	0%	0%	100%
Evaluation Measurement and Verification	0%	0%	100%
Evaluation Administrator	0%	0%	100%
Information Technology	0%	0%	100%
Energy Efficiency Board Consultants	0%	0%	100%
Audit - Financial and Operational	0%	0%	100%
Performance Management Incentive	0%	0%	100%
<p>Note: Core Residential and C&amp;I programs that produce savings are allocated 100% to the Residential and C&amp;I sectors, respectively. Other programs budgets are allocated to both Residential and C&amp;I sectors based on an estimated percentage of the sector that those dollars will directly benefit by the percentages above.</p>			

Table B – Eversource Natural Gas (2022)

2022 ES Gas	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$635	\$635	\$1,158	\$2,469	\$2,469	\$4,801	3.89	4.15	326	Homes
Home Energy Solutions	\$2,215	\$2,215	\$2,342	\$2,168	\$2,168	\$4,140	0.98	1.77	2,130	Homes
HVAC	\$4,586	\$4,586	\$7,262	\$7,747	\$7,747	\$14,837	1.69	2.04	16,768	Products
HES - Income Eligible	\$4,150	\$4,150	\$5,013	\$2,861	\$2,861	\$7,572	0.69	1.51	4,449	Homes
Behavior	\$10	\$10	\$10	\$10	\$10	\$17	1.00	1.75	22,000	Customers
<b>Subtotal: Residential</b>	<b>\$11,596</b>	<b>\$11,596</b>	<b>\$15,785</b>	<b>\$15,255</b>	<b>\$15,255</b>	<b>\$31,367</b>	<b>1.32</b>	<b>1.99</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$4,141	\$4,141	\$4,508	\$4,320	\$4,320	\$9,031	1.04	2.00	23	Projects
Energy Opportunities	\$3,770	\$3,770	\$6,636	\$4,214	\$4,214	\$8,844	1.12	1.33	188	Projects
BES	\$715	\$715	\$1,215	\$1,495	\$1,495	\$2,998	2.09	2.47	22	Projects
Small Business	\$736	\$736	\$1,359	\$828	\$828	\$1,697	1.12	1.25	504	Projects
<b>Subtotal: C&amp;I</b>	<b>\$9,362</b>	<b>\$9,362</b>	<b>\$13,717</b>	<b>\$10,857</b>	<b>\$10,857</b>	<b>\$22,570</b>	<b>1.16</b>	<b>1.65</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,452</b>	<b>\$2,452</b>	<b>\$2,452</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$23,410</b>	<b>\$23,410</b>	<b>\$31,954</b>	<b>\$26,112</b>	<b>\$26,112</b>	<b>\$53,937</b>	<b>1.12</b>	<b>1.69</b>	-	-

**Table B – Eversource Natural Gas (2022) (continued)**

2022 ES Gas	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	-	-	-	-	-	-	-	-	-	-
New Construction	129,607	3,240,166	1,154	\$4.903	\$0.196	\$550	\$22	13,337	333,413	\$48	\$2	959	23,979
Home Energy Solutions	131,402	2,688,671	1,242	\$16.853	\$0.82	\$1,782	\$87	13,521	276,664	\$164	\$8	972	19,898
HVAC	511,246	9,575,932	4,785	\$8.970	\$0.479	\$958	\$51	52,607	985,363	\$87	\$5	3,784	70,868
HES - Income Eligible	177,771	3,521,346	1,654	\$23.343	\$1.178	\$2,509	\$127	18,293	362,347	\$227	\$11	1,316	26,060
Behavior	9,218	9,218	90	\$1.085	\$1.085	\$111	\$111	949	949	\$11	\$11	68	68
<b>Subtotal: Residential</b>	<b>959,243</b>	<b>19,035,332</b>	<b>8,926</b>	<b>\$12.088</b>	<b>\$0.609</b>	<b>\$1,299</b>	<b>\$65</b>	<b>98,706</b>	<b>1,958,736</b>	<b>\$117</b>	<b>\$6</b>	<b>7,099</b>	<b>140,873</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	433,021	6,249,496	3,730	\$9.563	\$0.663	\$1,110	\$77	44,558	643,073	\$93	\$6	3,205	46,250
Energy Opportunities	591,239	6,000,870	3,238	\$6.376	\$0.628	\$1,164	\$115	60,838	617,490	\$62	\$6	4,376	44,410
BES	250,431	1,924,382	1,262	\$2.856	\$0.372	\$567	\$74	25,769	198,019	\$28	\$4	1,853	14,242
Small Business	94,863	1,136,144	815	\$7.764	\$0.648	\$903	\$75	9,761	116,909	\$75	\$6	702	8,408
<b>Subtotal: C&amp;I</b>	<b>1,369,553</b>	<b>15,310,892</b>	<b>9,045</b>	<b>\$6.836</b>	<b>\$0.611</b>	<b>\$1,035</b>	<b>\$93</b>	<b>140,927</b>	<b>1,575,491</b>	<b>\$66</b>	<b>\$6</b>	<b>10,136</b>	<b>113,310</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	-	-	-	-	\$-	\$-	\$-	-	-	\$-	\$-	-	-
<b>TOTAL</b>	<b>2,328,796</b>	<b>34,346,224</b>	<b>17,971</b>	<b>\$10.052</b>	<b>\$0.682</b>	<b>\$1,303</b>	<b>\$88</b>	<b>239,633</b>	<b>3,534,226</b>	<b>\$98</b>	<b>\$7</b>	<b>17,234</b>	<b>254,183</b>

Table B – Eversource Natural Gas (2023)

2023 ES Gas	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
New Construction	\$635	\$635	\$1,157	\$2,481	\$2,481	\$4,850	3.91	4.19	324	Homes
Home Energy Solutions	\$2,438	\$2,438	\$2,438	\$2,416	\$2,416	\$4,674	0.99	1.92	2,450	Homes
HVAC	\$4,642	\$4,642	\$7,353	\$7,160	\$7,160	\$14,486	1.54	1.97	16,987	Products
HES - Income Eligible	\$4,218	\$4,218	\$4,263	\$2,911	\$2,911	\$7,770	0.69	1.82	4,530	Homes
Behavior	\$10	\$10	\$10	\$11	\$11	\$18	1.08	1.83	22,000	Customers
<b>Subtotal: Residential</b>	<b>\$11,943</b>	<b>\$11,943</b>	<b>\$15,221</b>	<b>\$14,979</b>	<b>\$14,979</b>	<b>\$31,799</b>	<b>1.25</b>	<b>2.09</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$4,286	\$4,286	\$4,667	\$4,487	\$4,487	\$9,432	1.05	2.02	24	Projects
Energy Opportunities	\$3,913	\$3,913	\$6,901	\$4,413	\$4,413	\$9,336	1.13	1.35	196	Projects
BES	\$727	\$727	\$1,236	\$1,525	\$1,525	\$3,087	2.10	2.50	23	Projects
Small Business	\$752	\$752	\$1,388	\$852	\$852	\$1,758	1.13	1.27	515	Projects
<b>Subtotal: C&amp;I</b>	<b>\$9,677</b>	<b>\$9,677</b>	<b>\$14,192</b>	<b>\$11,278</b>	<b>\$11,278</b>	<b>\$23,612</b>	<b>1.17</b>	<b>1.66</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,485</b>	<b>\$2,485</b>	<b>\$2,485</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$24,105</b>	<b>\$24,105</b>	<b>\$31,898</b>	<b>\$26,256</b>	<b>\$26,256</b>	<b>\$55,411</b>	<b>1.09</b>	<b>1.74</b>	<b>-</b>	<b>-</b>

**Table B – Eversource Natural Gas (2023) (continued)**

2023 ES Gas	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	-	-	-	-	-	-	-	-	-	-
New Construction	129,070	3,226,745	1,150	\$4.923	\$0.197	\$553	\$22	13,281	332,032	\$48	\$2	955	23,880
Home Energy Solutions	147,435	3,018,284	1,393	\$16.535	\$0.808	\$1,750	\$85	15,171	310,581	\$161	\$8	1,091	22,337
HVAC	517,922	9,700,981	4,848	\$8.962	\$0.478	\$958	\$51	53,294	998,231	\$87	\$5	3,833	71,793
HES - Income Eligible	181,308	3,591,979	1,687	\$23.264	\$1.174	\$2,500	\$126	18,657	369,615	\$226	\$11	1,342	26,583
Behavior	9,218	9,218	90	\$1.085	\$1.085	\$111	\$111	949	949	\$11	\$11	68	68
<b>Subtotal: Residential</b>	<b>984,953</b>	<b>19,547,207</b>	<b>9,167</b>	<b>\$12.125</b>	<b>\$0.611</b>	<b>\$1,303</b>	<b>\$66</b>	<b>101,352</b>	<b>2,011,408</b>	<b>\$118</b>	<b>\$6</b>	<b>7,289</b>	<b>144,661</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	446,483	6,429,084	3,882	\$9.598	\$0.667	\$1,104	\$77	45,943	661,553	\$93	\$6	3,304	47,579
Energy Opportunities	616,436	6,256,615	3,376	\$6.347	\$0.625	\$1,159	\$114	63,431	643,806	\$62	\$6	4,562	46,303
BES	255,025	1,959,686	1,285	\$2.851	\$0.371	\$566	\$74	26,242	201,652	\$28	\$4	1,887	14,503
Small Business	96,930	1,160,901	833	\$7.757	\$0.648	\$902	\$75	9,974	119,457	\$75	\$6	717	8,591
<b>Subtotal: C&amp;I</b>	<b>1,414,874</b>	<b>15,806,286</b>	<b>9,376</b>	<b>\$6.840</b>	<b>\$0.612</b>	<b>\$1,032</b>	<b>\$92</b>	<b>145,591</b>	<b>1,626,467</b>	<b>\$66</b>	<b>\$6</b>	<b>10,471</b>	<b>116,976</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	-	-	-	\$-	\$-	\$-	\$-	-	-	-	-	-	-
<b>TOTAL</b>	<b>2,399,827</b>	<b>35,353,493</b>	<b>18,543</b>	<b>\$10.045</b>	<b>\$0.682</b>	<b>\$1,300</b>	<b>\$88</b>	<b>246,942</b>	<b>3,637,874</b>	<b>\$98</b>	<b>\$7</b>	<b>17,760</b>	<b>261,637</b>

Table B – Eversource Natural Gas (2024)

2024 ES Gas	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	-	-	-	-	-	-	-
New Construction	\$635	\$635	\$1,153	2,487	\$2,487	\$4,892	3.91	4.24	323	Homes
Home Energy Solutions	\$2,854	\$2,854	\$2,854	2,845	\$2,845	\$5,554	1.00	1.95	3,064	Homes
HVAC	\$4,642	\$4,642	\$7,351	7,181	\$7,181	\$14,650	1.55	1.99	16,977	Products
HES - Income Eligible	\$4,218	\$4,218	\$5,092	2,904	\$2,904	\$7,797	0.69	1.53	4,511	Homes
Behavior	\$10	\$10	\$10	10	\$10	\$18	1.03	1.81	22,000	Customers
<b>Subtotal: Residential</b>	<b>\$12,359</b>	<b>\$12,359</b>	<b>\$16,461</b>	<b>\$15,428</b>	<b>\$15,428</b>	<b>\$32,911</b>	<b>1.25</b>	<b>2.00</b>		-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$4,286	\$4,286	\$4,667	\$4,451	\$4,451	\$9,410	1.04	2.02	24	Projects
Energy Opportunities	\$3,915	\$3,915	\$6,884	\$4,402	\$4,402	\$9,391	1.12	1.36	195	Projects
BES	\$727	\$727	\$1,233	\$1,516	\$1,516	\$3,100	2.09	2.51	22	Projects
Small Business	\$752	\$752	\$1,386	\$856	\$856	\$1,776	1.14	1.28	514	Projects
<b>Subtotal: C&amp;I</b>	<b>\$9,679</b>	<b>\$9,679</b>	<b>\$14,169</b>	<b>\$11,225</b>	<b>\$11,225</b>	<b>\$23,678</b>	<b>1.16</b>	<b>1.67</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,506</b>	<b>\$2,506</b>	<b>\$2,506</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$24,544</b>	<b>\$24,544</b>	<b>\$33,136</b>	<b>\$26,652</b>	<b>\$26,652</b>	<b>\$56,588</b>	<b>1.09</b>	<b>1.71</b>	<b>-</b>	<b>-</b>

**Table B – Eversource Natural Gas (2024) (continued)**

2024 ES Gas	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	-	-	-	-	-	-	-	-	-	-
New Construction	128,517	3,212,921	1,145	\$4.944	\$0.198	\$555	\$22	13,224	330,610	\$48	\$2	951	23,778
Home Energy Solutions	174,052	3,547,954	1,641	\$16.397	\$0.804	\$1,739	\$85	17,910	365,084	\$159	\$8	1,288	26,257
HVAC	517,616.7	9,695,260	4,845	\$8.967	\$0.479	\$958	\$51	53,263	997,642	\$87	\$5	3,831	71,751
HES - Income Eligible	180,542	3,576,809	1,680	\$23.363	\$1.179	\$2,511	\$127	18,578	368,054	\$227	\$11	1,336	26,471
Behavior	9,218	9,218	90	\$1.085	\$1.085	\$111	\$111	949	949	\$11	\$11	68	68
<b>Subtotal: Residential</b>	<b>1,009,946</b>	<b>20,042,162</b>	<b>9,400</b>	<b>\$12.237</b>	<b>\$0.617</b>	<b>\$1,315</b>	<b>\$66</b>	<b>103,923</b>	<b>2,062,338</b>	<b>\$119</b>	<b>\$6</b>	<b>7,474</b>	<b>148,324</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	439,271	6,321,465	3,874	\$9.756	\$0.678	\$1,106	\$77	45,201	650,479	\$95	\$7	3,251	46,783
Energy Opportunities	612,455	6,216,201	3,354	\$6.392	\$0.630	\$1,167	\$115	63,022	639,647	\$62	\$6	4,533	46,004
BES	253,677	1,949,328	1,278	\$2.866	\$0.373	\$569	\$74	26,103	200,586	\$28	\$4	1,877	14,426
Small Business	96,639	1,157,418	831	\$7.780	\$0.650	\$905	\$76	9,944	119,098	\$76	\$6	715	8,566
<b>Subtotal: C&amp;I</b>	<b>1,402,042</b>	<b>15,644,412</b>	<b>9,336</b>	<b>\$6.904</b>	<b>\$0.619</b>	<b>\$1,037</b>	<b>\$93</b>	<b>144,270</b>	<b>1,609,810</b>	<b>\$67</b>	<b>\$6</b>	<b>10,376</b>	<b>115,778</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	-	-	-	\$-	\$-	\$-	\$-	-	-	\$-	\$-	-	-
<b>TOTAL</b>	<b>2,411,987</b>	<b>35,686,574</b>	<b>18,737</b>	<b>\$10.176</b>	<b>\$0.688</b>	<b>\$1,310</b>	<b>\$89</b>	<b>248,193</b>	<b>3,672,148</b>	<b>\$99</b>	<b>\$7</b>	<b>17,850</b>	<b>264,102</b>

Table C – Eversource Natural Gas (2022)

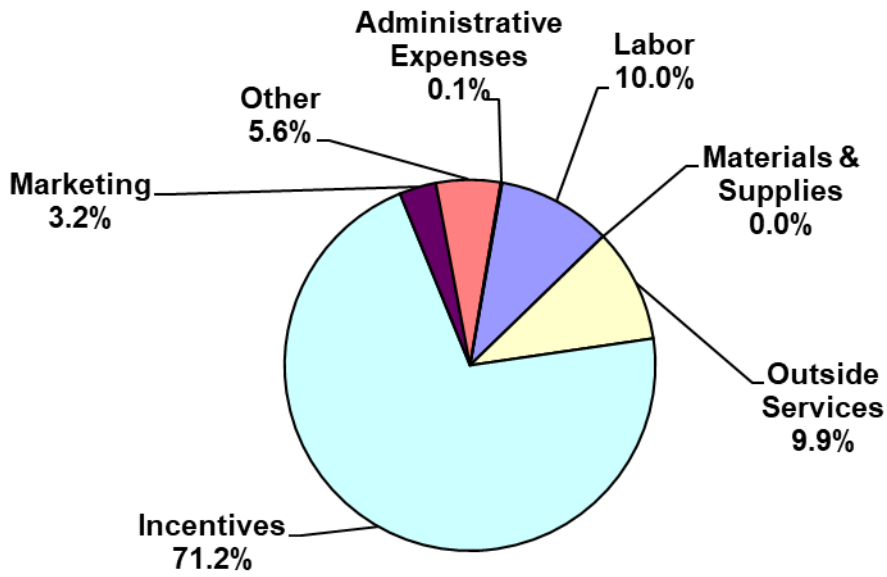
Table C  
Eversource CT Gas 2022 EE Budget Details

Eversource CT Gas EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$72,100	\$100	\$10,000	\$ -	\$522,203	\$26,000	\$2,000	\$3,000	\$635,403
HES - Core Services	\$251,350	\$500	\$363,000	\$24,963	\$1,392,763	\$170,000	\$7,000	\$5,000	\$2,214,576
HES - HVAC, Water Heaters	\$78,986	\$484	\$300,000	\$ -	\$4,085,364	\$120,000	\$100	\$1,000	\$4,585,934
HES-Income Eligible	\$456,073	\$500	\$113,000	\$33,964	\$3,282,130	\$250,000	\$6,000	\$8,000	\$4,149,666
Residential Behavior	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$858,509</b>	<b>\$1,584</b>	<b>\$796,000</b>	<b>\$58,927</b>	<b>\$9,282,459</b>	<b>\$566,000</b>	<b>\$15,100</b>	<b>\$17,000</b>	<b>\$11,595,579</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$238,646	\$500	\$450,000	\$22,956	\$3,386,755	\$40,000	\$1,000	\$1,000	\$4,140,857
Energy Opportunities	\$695,939	\$500	\$134,538	\$22,320	\$2,866,236	\$42,000	\$6,000	\$2,000	\$3,769,533
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$86,993	\$100	\$110,000	\$837	\$499,420	\$16,000	\$1,000	\$1,000	\$715,350
Small Business	\$61,737	\$500	\$11,000	\$ -	\$622,235	\$38,000	\$1,000	\$2,000	\$736,472
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$1,083,315</b>	<b>\$1,600</b>	<b>\$705,538</b>	<b>\$46,113</b>	<b>\$7,374,646</b>	<b>\$136,000</b>	<b>\$9,000</b>	<b>\$6,000</b>	<b>\$9,362,211</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$6,924	\$ -	\$65,584	\$ -	\$ -	\$4,159	\$ -	\$ -	\$76,667
Workforce Development	\$6,924	\$ -	\$75,743	\$ -	\$ -	\$0	\$ -	\$ -	\$82,667
Community Outreach	\$4,333	\$ -	\$67,167	\$ -	\$ -	\$7,000	\$ -	\$1,500	\$80,000
Customer Engagement Initiative	\$11,000	\$ -	\$59,000	\$ -	\$ -	\$0	\$ -	\$ -	\$70,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$29,181</b>	<b>\$ -</b>	<b>\$267,493</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$11,159</b>	<b>\$ -</b>	<b>\$1,500</b>	<b>\$309,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (ECLF/OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$84,523	\$ -	\$84,523
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$93,905	\$ -	\$93,905
RD&D	\$14,853	\$ -	\$35,148	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$14,853</b>	<b>\$ -</b>	<b>\$35,148</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$178,428</b>	<b>\$ -</b>	<b>\$228,428</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$118,023	\$ -	\$14,910	\$15,000	\$ -	\$ -	\$2,000	\$1,000	\$150,933
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$56,211	\$ -	\$20,000	\$2,947	\$ -	\$ -	\$ -	\$ -	\$79,158
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$26,617	\$ -	\$88,776	\$25,333	\$ -	\$ -	\$ -	\$ -	\$140,726
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
Performance Management Incentive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,110,323	\$ -	\$1,110,323
<b>Subtotal: Other</b>	<b>\$200,851</b>	<b>\$ -</b>	<b>\$516,626</b>	<b>\$43,280</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$1,112,323</b>	<b>\$1,000</b>	<b>\$1,914,180</b>
<b>TOTAL BUDGET</b>	<b>\$2,186,708</b>	<b>\$3,184</b>	<b>\$2,320,805</b>	<b>\$148,320</b>	<b>\$16,657,105</b>	<b>\$753,259</b>	<b>\$1,314,851</b>	<b>\$25,500</b>	<b>\$23,409,733</b>



Table C Pie Chart – Eversource Natural Gas (2022)

**EVERSOURCE CT GAS  
2022 Gas Conservation  
Budget By Expense Class**



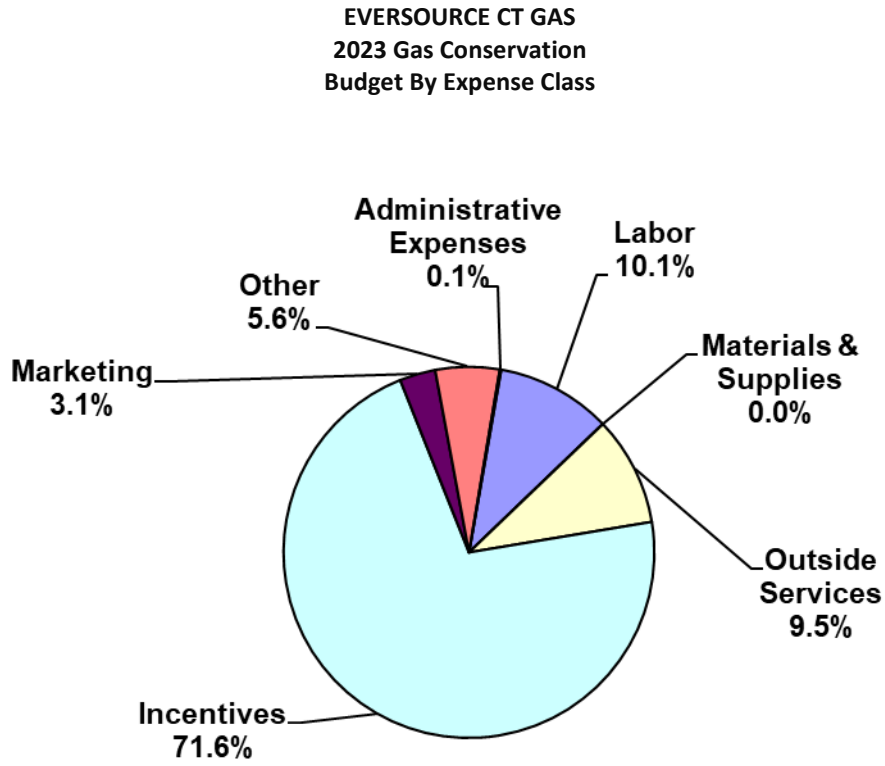
Expense Classes	Budget	% of Budget
Labor	\$ 2,335,028	10.0%
Materials & Supplies	\$ 3,184	0.0%
Outside Services	\$ 2,320,805	9.9%
Incentives	\$ 16,657,105	71.2%
Marketing	\$ 753,259	3.2%
Other	\$ 1,314,851	5.6%
Administrative Expenses	\$ <u>25,500</u>	<u>0.1%</u>
<b>Total</b>	<b>\$ 23,409,733</b>	<b>100.0%</b>

Table C – Eversource Natural Gas (2023)

Table C  
Eversource CT Gas 2023 EE Budget Details

Eversource CT Gas EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Administrative Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$74,263	\$100	\$10,000	\$ -	\$520,040	\$26,000	\$2,000	\$3,000	\$635,403
HES - Core Services	\$264,891	\$500	\$363,000	\$24,963	\$1,602,549	\$170,000	\$7,000	\$5,000	\$2,437,902
HES - HVAC, Water Heaters	\$81,356	\$484	\$300,000	\$ -	\$4,138,713	\$120,000	\$100	\$1,000	\$4,641,653
HES-Income Eligible	\$469,755	\$500	\$113,000	\$33,964	\$3,336,734	\$250,000	\$6,000	\$8,000	\$4,217,953
Residential Behavior	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$890,264</b>	<b>\$1,584</b>	<b>\$796,000</b>	<b>\$58,927</b>	<b>\$9,598,035</b>	<b>\$566,000</b>	<b>\$15,100</b>	<b>\$17,000</b>	<b>\$11,942,911</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$245,806	\$500	\$450,000	\$22,956	\$3,524,281	\$40,000	\$1,000	\$1,000	\$4,285,543
Energy Opportunities	\$716,817	\$500	\$134,538	\$22,320	\$2,988,390	\$42,000	\$6,000	\$2,000	\$3,912,565
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$89,603	\$100	\$110,000	\$837	\$508,582	\$16,000	\$1,000	\$1,000	\$727,122
Small Business	\$63,589	\$500	\$11,000	\$ -	\$635,794	\$38,000	\$1,000	\$2,000	\$751,883
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$1,115,814</b>	<b>\$1,600</b>	<b>\$705,538</b>	<b>\$46,113</b>	<b>\$7,657,047</b>	<b>\$136,000</b>	<b>\$9,000</b>	<b>\$6,000</b>	<b>\$9,677,112</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$7,132	\$ -	\$65,376	\$ -	\$ -	\$4,159	\$ -	\$ -	\$76,667
Workforce Development	\$7,132	\$ -	\$75,535	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$4,463	\$ -	\$67,037	\$ -	\$ -	\$7,000	\$ -	\$1,500	\$80,000
Customer Engagement Initiative	\$11,330	\$ -	\$58,670	\$ -	\$ -	\$ -	\$ -	\$ -	\$70,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$30,056</b>	<b>\$ -</b>	<b>\$266,618</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$11,159</b>	<b>\$ -</b>	<b>\$1,500</b>	<b>\$309,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (ECLF/OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$84,523	\$ -	\$84,523
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$93,905	\$ -	\$93,905
RD&D	\$15,298	\$ -	\$34,702	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$15,298</b>	<b>\$ -</b>	<b>\$34,702</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$178,428</b>	<b>\$ -</b>	<b>\$228,428</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$121,563	\$ -	\$11,370	\$15,000	\$ -	\$ -	\$2,000	\$1,000	\$150,933
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$78,497	\$ -	\$ -	\$661	\$ -	\$ -	\$ -	\$ -	\$79,158
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$27,415	\$ -	\$87,977	\$25,333	\$ -	\$ -	\$ -	\$ -	\$140,726
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
Performance Management Incentive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,143,435	\$ -	\$1,143,435
<b>Subtotal: Other</b>	<b>\$227,476</b>	<b>\$ -</b>	<b>\$492,287</b>	<b>\$40,994</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$1,145,435</b>	<b>\$1,000</b>	<b>\$1,947,292</b>
<b>TOTAL BUDGET</b>	<b>\$2,278,909</b>	<b>\$3,184</b>	<b>\$2,295,145</b>	<b>\$146,034</b>	<b>\$17,255,082</b>	<b>\$753,259</b>	<b>\$1,347,963</b>	<b>\$25,500</b>	<b>\$24,105,077</b>

Table C Pie Chart – Eversource Natural Gas (2023)



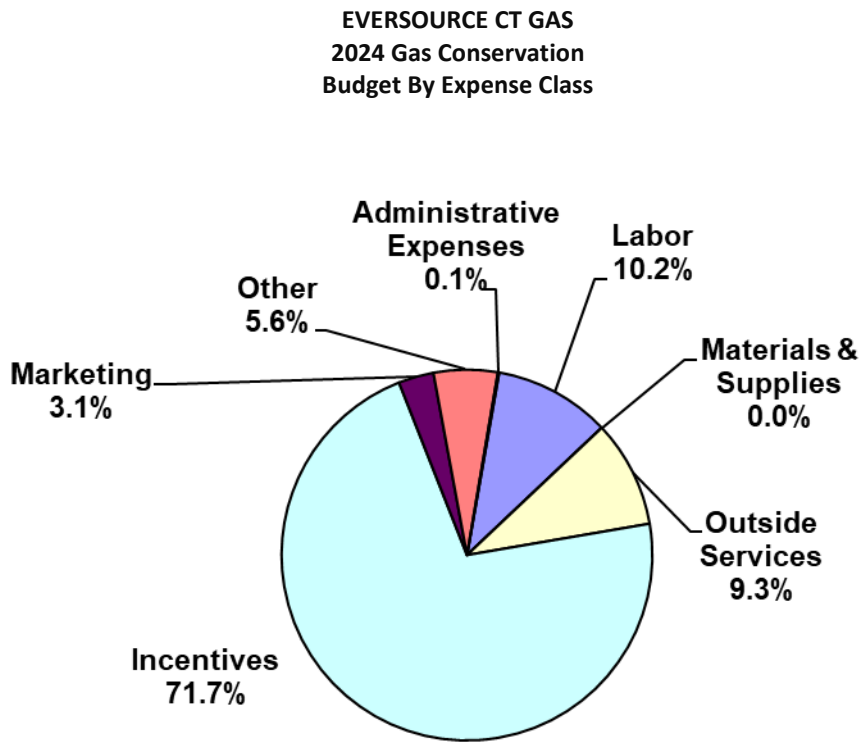
Expense Classes	Budget	% of Budget
Labor	\$ 2,424,943	10.1%
Materials & Supplies	\$ 3,184	0.0%
Outside Services	\$ 2,295,145	9.5%
Incentives	\$ 17,255,082	71.6%
Marketing	\$ 753,259	3.1%
Other	\$ 1,347,963	5.6%
Administrative Expenses	\$ 25,500	0.1%
<b>Total</b>	<b>\$ 24,105,077</b>	<b>100.0%</b>

Table C – Eversource Natural Gas (2024)

Table C  
Eversource CT Gas 2024 EE Budget Details

Eversource CT Gas EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$76,491	\$100	\$10,000	\$ -	\$517,812	\$26,000	\$2,000	\$3,000	\$635,403
HES - Core Services	\$278,838	\$500	\$363,000	\$24,963	\$2,004,680	\$170,000	\$7,000	\$5,000	\$2,853,980
HES - HVAC, Water Heaters	\$83,796	\$484	\$300,000	\$ -	\$4,136,272	\$120,000	\$100	\$1,000	\$4,641,653
HES-Income Eligible	\$483,847	\$500	\$113,000	\$33,964	\$3,322,641	\$250,000	\$6,000	\$8,000	\$4,217,953
Residential Behavior	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
<b>Subtotal: Residential EE Portfolio</b>	<b>\$922,972</b>	<b>\$1,584</b>	<b>\$796,000</b>	<b>\$58,927</b>	<b>\$9,981,405</b>	<b>\$566,000</b>	<b>\$15,100</b>	<b>\$17,000</b>	<b>\$12,358,989</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$253,180	\$500	\$450,000	\$22,956	\$3,516,907	\$40,000	\$1,000	\$1,000	\$4,285,543
Energy Opportunities	\$738,321	\$500	\$134,538	\$22,320	\$2,969,086	\$42,000	\$6,000	\$2,000	\$3,914,766
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$92,291	\$100	\$110,000	\$837	\$505,894	\$16,000	\$1,000	\$1,000	\$727,122
Small Business	\$65,497	\$500	\$11,000	\$ -	\$633,886	\$38,000	\$1,000	\$2,000	\$751,883
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$1,149,289</b>	<b>\$1,600</b>	<b>\$705,538</b>	<b>\$46,113</b>	<b>\$7,625,773</b>	<b>\$136,000</b>	<b>\$9,000</b>	<b>\$6,000</b>	<b>\$9,679,313</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$7,346	\$ -	\$65,162	\$ -	\$ -	\$4,159	\$ -	\$ -	\$76,667
Workforce Development	\$7,346	\$ -	\$75,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$4,597	\$ -	\$66,903	\$ -	\$ -	\$7,000	\$ -	\$1,500	\$80,000
Customer Engagement Initiative	\$11,670	\$ -	\$58,330	\$ -	\$ -	\$ -	\$ -	\$ -	\$70,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$30,958</b>	<b>\$ -</b>	<b>\$265,716</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$11,159</b>	<b>\$ -</b>	<b>\$1,500</b>	<b>\$309,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Residential Loan Program (ECLF/OBR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$84,523	\$ -	\$84,523
C&I Financing Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$93,905	\$ -	\$93,905
RD&D	\$15,757	\$ -	\$34,243	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$15,757</b>	<b>\$ -</b>	<b>\$34,243</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$178,428</b>	<b>\$ -</b>	<b>\$228,428</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$125,210	\$ -	\$7,723	\$15,000	\$ -	\$ -	\$2,000	\$1,000	\$150,933
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$79,158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$79,158
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$28,238	\$ -	\$87,155	\$25,333	\$ -	\$ -	\$ -	\$ -	\$140,726
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
Performance Management Incentive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,164,349	\$ -	\$1,164,349
<b>Subtotal: Other</b>	<b>\$232,606</b>	<b>\$ -</b>	<b>\$487,818</b>	<b>\$40,333</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$1,166,349</b>	<b>\$1,000</b>	<b>\$1,968,206</b>
<b>TOTAL BUDGET</b>	<b>\$2,351,583</b>	<b>\$3,184</b>	<b>\$2,289,315</b>	<b>\$145,373</b>	<b>\$17,607,179</b>	<b>\$753,259</b>	<b>\$1,368,877</b>	<b>\$25,500</b>	<b>\$24,544,270</b>

Table C Pie Chart – Eversource Natural Gas (2024)



Expense Classes	Budget	% of Budget
Labor	\$ 2,496,956	10.2%
Materials & Supplies	\$ 3,184	0.0%
Outside Services	\$ 2,289,315	9.3%
Incentives	\$ 17,607,179	71.7%
Marketing	\$ 753,259	3.1%
Other	\$ 1,368,877	5.6%
Administrative Expenses	\$ 25,500	0.1%
<b>Total</b>	<b>\$ 24,544,270</b>	<b>100.0%</b>

Table D – Eversource Gas CT Historical and Projected Expenditures (2013-2024)

**Table D: Eversource CT Historical and Projected \$ (2013-2024)  
Expenditures \$ (000)**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential New Construction	\$193,667	\$677,845	\$764,790	\$692,482	\$881,482	\$918,565
Home Energy Solutions	\$1,724,523	\$4,493,416	\$3,432,631	\$2,952,063	\$3,379,814	\$1,843,187
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$1,668,456	\$1,483,857	\$2,938,795
HES-Income Eligible	\$3,138,425	\$5,614,632	\$4,650,418	\$4,926,003	\$4,617,168	\$4,400,007
Water Heating	\$41,069	\$329,133	\$523,846	\$ -	\$ -	\$ -
Residential Behavior	\$ -	\$ -	\$ -	\$183,310	\$614,173	\$167,458
<b>Subtotal: Residential</b>	<b>\$5,097,684</b>	<b>\$11,115,026</b>	<b>\$9,371,685</b>	<b>\$10,422,314</b>	<b>\$10,976,494</b>	<b>\$10,268,012</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$1,152,025	\$3,034,664	\$2,634,533	\$2,080,768	\$1,603,199	\$1,831,447
Energy Opportunities	\$870,585	\$2,053,847	\$1,668,217	\$4,135,899	\$3,555,604	\$4,097,336
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$94,554	\$299,105	\$219,014	\$678,102	\$553,690	\$569,494
Small Business	\$422,844	\$218,468	\$329,075	\$381,268	\$848,654	\$247,416
<b>Subtotal: C&amp;I</b>	<b>\$2,540,008</b>	<b>\$5,606,084</b>	<b>\$4,850,839</b>	<b>\$7,276,037</b>	<b>\$6,561,148</b>	<b>\$6,745,693</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education (Educate the Students 2016-2021)	\$ -	\$ -	\$ -	\$50,119	\$26,077	\$41,953
Workforce Development (Educate Workforce 2016-2021)	\$ -	\$ -	\$ -	\$26,313	\$18,686	\$9,314
Community Outreach (Educate the Public 2016-2021)	\$ -	\$ -	\$ -	\$214,403	\$145,069	\$62,878
Customer Engagement Initiative (Customer Engagement (2014-2021))	\$ -	\$284,008	\$282,000	\$229,036	\$231,942	\$193,660
SmartLiving Center®-Museums Partnership	\$ -	\$165,067	\$83,670	\$ -	\$ -	\$ -
Clean Energy Communities/Behavior Pilot	\$ -	\$49,106	\$184,917	\$ -	\$ -	\$ -
eesmarts/K-12	\$ -	\$8,790	\$96,470	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$ -</b>	<b>\$506,971</b>	<b>\$647,057</b>	<b>\$443,439</b>	<b>\$377,011</b>	<b>\$256,538</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Residential Loan Program (includes ECLF and OBR)	\$70,112	\$69,591	\$69,012	\$174,448	\$84,550	\$84,550
C&I Financing Support	\$ -	\$ -	\$ -	\$12,879	\$ -	\$ -
RD&D	\$ -	\$ -	\$19,154	\$20,487	\$18,501	\$34,459
Institute for Sustainable Energy (moved to Educate Workforce)	\$ -	\$37,333	\$41,333	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$ -	\$34,825	\$25,857	\$ -	\$ -	\$ -
C&I Loan Program	\$294	\$ -	\$13,542	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$27,042	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$70,406</b>	<b>\$141,749</b>	<b>\$195,940</b>	<b>\$207,814</b>	<b>\$103,051</b>	<b>\$119,009</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$51,486	\$94,752	\$119,374	\$37,023	\$52,134	\$133,366
Marketing Plan	\$8	\$65,930	\$100,283	\$95,028	\$37,911	\$22,597
Planning	\$103,533	\$147,774	\$111,082	\$94,234	\$61,481	\$123,125
EM&V	-\$17,049	\$169,462	\$181,443	\$120,010	\$200,000	\$145,595
Evaluation Administrator	\$ -	\$34,068	\$31,472	\$39,278	\$27,348	\$19,902
Information Technology	\$51,196	\$72,683	\$126,557	\$191,801	\$68,304	\$148,381
EEB Consultants	\$38,924	\$77,207	\$75,225	\$70,328	\$47,599	\$33,163
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$5,458	\$10,000
PMI	\$605,725	\$920,771	\$942,177	\$587,469	\$1,123,213	\$1,088,866
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$833,824</b>	<b>\$1,582,648</b>	<b>\$1,687,612</b>	<b>\$1,235,170</b>	<b>\$1,623,448</b>	<b>\$1,724,995</b>
<b>TOTAL</b>	<b>\$8,541,922</b>	<b>\$18,952,478</b>	<b>\$16,753,133</b>	<b>\$19,661,206</b>	<b>\$19,685,915</b>	<b>\$19,165,514</b>

**Table D – Eversource Gas CT Historical and Projected Expenditures (2013-2024)(continued)**

**Table D: Eversource CT Historical and Projected \$ (2013-2024)  
Expenditures \$ (000)**

	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget	2024 Budget
<b>RESIDENTIAL</b>						
Residential New Construction	\$887,551	\$489,620	\$887,629	\$635,403	\$635,403	\$635,403
Home Energy Solutions	\$2,572,719	\$2,893,620	\$1,949,441	\$2,214,576	\$2,437,902	\$2,853,980
HVAC & Domestic Water Heating	\$3,441,578	\$4,573,515	\$3,096,217	\$4,585,934	\$4,641,653	\$4,641,653
HES-Income Eligible	\$3,404,495	\$4,303,596	\$3,792,458	\$4,149,666	\$4,217,953	\$4,217,953
Water Heating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Behavior	\$414,553	\$ -	\$ -	\$10,000	\$10,000	\$10,000
<b>Subtotal: Residential</b>	<b>\$10,720,896</b>	<b>\$12,260,351</b>	<b>\$9,725,745</b>	<b>\$11,595,579</b>	<b>\$11,942,911</b>	<b>\$12,358,989</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	\$3,177,795	\$3,510,955	\$3,815,820	\$4,140,857	\$4,285,543	\$4,285,543
Energy Opportunities	\$3,236,775	\$3,377,127	\$3,555,712	\$3,769,533	\$3,912,565	\$3,914,766
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$972,152	\$645,936	\$592,154	\$715,350	\$727,122	\$727,122
Small Business	\$220,886	\$125,273	\$775,196	\$736,472	\$751,883	\$751,883
<b>Subtotal: C&amp;I</b>	<b>\$7,607,608</b>	<b>\$7,659,291</b>	<b>\$8,738,881</b>	<b>\$9,362,211</b>	<b>\$9,677,112</b>	<b>\$9,679,313</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Energy Education (Educate the Students 2016-2021)	\$27,256	\$34,537	\$123,642	\$80,000	\$80,000	\$80,000
Workforce Development (Educate Workforce 2016-2021)	\$5,699	\$197,010	\$232,000	\$70,000	\$70,000	\$70,000
Community Outreach (Educate the Public 2016-2021)	\$63,267	\$33,239	\$45,164	\$76,667	\$76,667	\$76,667
Customer Engagement Initiative (Customer Engagement (2014-2021))	\$201,756	\$42,041	\$36,774	\$82,667	\$82,667	\$82,667
SmartLiving Center®-Museums Partnership	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities/Behavior Pilot	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
eesmarts/K-12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$265,023</b>	<b>\$75,281</b>	<b>\$81,938</b>	<b>\$159,333</b>	<b>\$159,333</b>	<b>\$159,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Residential Loan Program (includes ECLF and OBR)	\$80,075	\$99,172	\$84,523	\$84,523	\$84,523	\$84,523
C&I Financing Support	\$10,944	\$ -	\$93,905	\$93,905	\$93,905	\$93,905
RD&D	\$15,367	\$15,680	\$50,000	\$50,000	\$50,000	\$50,000
Institute for Sustainable Energy (moved to Educate Workforce)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$106,386</b>	<b>\$114,852</b>	<b>\$228,428</b>	<b>\$228,428</b>	<b>\$228,428</b>	<b>\$228,428</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$92,906	\$121,815	\$150,933	\$150,933	\$150,933	\$150,933
Marketing Plan	\$14,890	\$35,467	\$40,100	\$40,100	\$40,100	\$40,100
Planning	\$137,312	\$136,377	\$79,158	\$79,158	\$79,158	\$79,158
EM&V	\$218,102	\$200,000	\$200,000	\$300,000	\$300,000	\$300,000
Evaluation Administrator	\$21,008	\$25,798	\$21,931	\$29,607	\$29,607	\$29,607
Information Technology	\$143,627	\$122,356	\$140,726	\$140,726	\$140,726	\$140,726
EEB Consultants	\$34,965	\$44,501	\$43,333	\$53,333	\$53,333	\$53,333
Audits - Financial and Operational	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
PMI	\$1,057,175	\$1,277,162	\$888,370	\$1,110,323	\$1,143,435	\$1,164,349
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$1,729,985</b>	<b>\$1,973,476</b>	<b>\$1,574,552</b>	<b>\$1,914,180</b>	<b>\$1,947,292</b>	<b>\$1,968,206</b>
<b>TOTAL</b>	<b>\$20,462,853</b>	<b>\$22,314,798</b>	<b>\$20,705,187</b>	<b>\$23,409,733</b>	<b>\$24,105,077</b>	<b>\$24,544,270</b>

Table D1 – Eversource CT Natural Gas Annual Savings CCF (2013-2024)

**Table D1  
Eversource CT Gas – Annual Savings (CCF)  
Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential New Construction	53,957	89,997	136,229	107,504	124,495	141,403	179,078	103,785	149,278	129,607	129,070	128,517
HES (Core Services, HVAC, Duct Sealing through 2015)	238,395	303,919	158,468	232,197	325,962	187,700	275,034	239,628	108,228	131,402	147,435	174,052
HVAC & Domestic Water Heating	-	-	-	242,925	267,816	413,231	345,175	509,323	312,767	511,246	517,922	517,617
Insulation Rebate	17,015	45,588	29,764	-	-	-	-	-	-	-	-	-
HES Early Retirement Furnace Rebate	7,132	48,552	-	-	-	-	-	-	-	-	-	-
Res High-Eff Natural Gas Furnace Replace Rebate	41,477	133,167	202,140	-	-	-	-	-	-	-	-	-
Window Rebate	2,516	5,078	3,226	-	-	-	-	-	-	-	-	-
<b>HES - Total</b>	<b>306,535</b>	<b>536,304</b>	<b>393,598</b>	-	-	-	-	-	-	-	-	-
HES-Income Eligible	415,930	593,667	420,481	412,516	416,211	369,070	273,617	220,597	237,455	177,771	181,308	180,542
Water Heating	2,812	49,272	70,702	-	-	-	-	-	-	-	-	-
Residential Behavior	-	-	-	-	321,474	47,498	93,782	-	-	9,218	9,218	9,218
<b>Subtotal: Residential EE Portfolio</b>	<b>779,234</b>	<b>1,269,239</b>	<b>1,021,010</b>	<b>995,142</b>	<b>1,455,958</b>	<b>1,158,902</b>	<b>1,166,686</b>	<b>1,073,333</b>	<b>807,728</b>	<b>959,243</b>	<b>984,953</b>	<b>1,009,946</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	259,919	505,346	774,336	458,721	324,249	344,946	502,704	617,984	419,599	433,021	446,483	439,271
Energy Opportunities	481,474	614,294	459,661	826,143	859,518	862,082	747,875	449,859	546,190	591,239	616,436	612,455
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	53,261	164,777	192,358	562,290	563,752	405,861	472,544	329,092	286,727	250,431	255,025	253,677
Small Business	72,422	57,987	53,878	66,201	95,808	104,112	53,932	3,973	77,039	94,863	96,930	96,639
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>867,076</b>	<b>1,342,405</b>	<b>1,480,233</b>	<b>1,913,355</b>	<b>1,843,327</b>	<b>1,717,001</b>	<b>1,777,055</b>	<b>1,400,909</b>	<b>1,329,555</b>	<b>1,369,553</b>	<b>1,414,874</b>	<b>1,402,042</b>
<b>TOTAL</b>	<b>1,646,309</b>	<b>2,611,644</b>	<b>2,501,243</b>	<b>2,908,497</b>	<b>3,299,285</b>	<b>2,875,903</b>	<b>2,943,741</b>	<b>2,474,242</b>	<b>2,137,283</b>	<b>2,328,796</b>	<b>2,399,827</b>	<b>2,411,987</b>



Table D2 – Eversource CT Natural Gas Lifetime Savings CCF (2013-2024)

**Table D2**  
**Eversource CT Gas – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
Residential New Construction	1,171,781	2,045,134	3,271,203	2,657,738	2,904,240	3,247,525
HES (Core Services, HVAC, Duct Sealing through 2015)	4,136,193	5,536,786	2,997,099	4,397,581	6,073,461	3,560,522
HVAC & Domestic Water Heating	-	-	-	4,845,878	5,355,264	8,262,599
Insulation Rebate	425,386	1,139,707	744,112	-	-	-
HES Early Retirement Furnace Rebate	35,662	940,461	-	-	-	-
Res High-Eff Natural Gas Furnace Replace Rebate	829,533	2,615,788	4,042,806	-	-	-
Window Rebate	52,674	101,568	64,512	-	-	-
<b>HES - Total</b>	<b>5,479,448</b>	<b>10,334,310</b>	<b>7,848,529</b>	<b>-</b>	<b>-</b>	<b>-</b>
HES-Income Eligible	6,590,419	11,276,075	8,697,544	7,535,882	8,142,754	7,536,237
Water Heating	56,244	944,742	1,329,986	-	-	-
Residential Behavior	-	-	-	-	861,903	122,689
<b>Subtotal: Residential EE Portfolio</b>	<b>13,297,892</b>	<b>24,600,260</b>	<b>21,147,262</b>	<b>19,437,079</b>	<b>23,337,622</b>	<b>22,729,572</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	4,012,514	7,665,291	14,168,474	6,862,601	4,932,458	5,016,971
Energy Opportunities	5,870,925	7,136,800	5,687,189	8,948,254	9,274,301	8,677,066
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	398,693	958,524	1,120,186	3,456,389	3,428,408	2,301,322
Small Business	835,602	693,581	738,098	771,880	1,335,130	1,273,289
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>11,117,734</b>	<b>16,454,196</b>	<b>21,713,947</b>	<b>20,039,124</b>	<b>18,970,297</b>	<b>17,268,648</b>
<b>TOTAL</b>	<b>24,415,626</b>	<b>41,054,456</b>	<b>42,861,209</b>	<b>39,476,203</b>	<b>42,307,919</b>	<b>39,998,220</b>

**Table D2 – Eversource CT Natural Gas Lifetime Savings CCF (2013-2024)(continued)**

**Table D2**  
**Eversource CT Gas – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
Residential New Construction	4,289,703	2,436,384	3,290,606	3,240,166	3,226,745	3,212,921
HES (Core Services, HVAC, Duct Sealing through 2015)	5,187,631	4,385,006	2,181,110	2,688,671	3,018,284	3,547,954
HVAC & Domestic Water Heating	6,903,273	9,123,944	5,979,104	9,575,932	9,700,981	9,695,260
Insulation Rebate	-	-	-	-	-	-
HES Early Retirement Furnace Rebate	-	-	-	-	-	-
Res High-Eff Natural Gas Furnace Replace Rebate	-	-	-	-	-	-
Window Rebate	-	-	-	-	-	-
<b>(HES) - Total</b>	-	-	-	-	-	-
HES-Income Eligible	5,184,877	4,375,975	4,657,607	3,521,346	3,591,979	3,576,809
Water Heating	-	-	-	-		
Residential Behavior	242,243	-	-	9,218	9,218	9,218
<b>Subtotal: Residential EE Portfolio</b>	<b>21,807,727</b>	<b>20,321,310</b>	<b>16,108,427</b>	<b>19,035,332</b>	<b>19,547,207</b>	<b>20,042,162</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	7,603,047	8,692,263	6,736,885	6,249,496	6,429,084	6,321,465
Energy Opportunities	7,417,585	4,192,805	5,022,099	6,000,870	6,256,615	6,216,201
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	3,500,467	2,471,981	1,440,982	1,924,382	1,959,686	1,949,328
Small Business	733,850	46,418	965,479	1,136,144	1,160,901	1,157,418
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>19,254,949</b>	<b>15,403,467</b>	<b>14,165,445</b>	<b>15,310,892</b>	<b>15,806,286</b>	<b>15,644,412</b>
<b>TOTAL</b>	<b>41,062,676</b>	<b>35,724,776</b>	<b>30,273,873</b>	<b>34,346,224</b>	<b>35,353,493</b>	<b>35,686,574</b>

Table D3 – Eversource Natural Gas Cost per Annual Savings CCF (2013-2024)

**Table D3**  
**Eversource CT Gas - Cost per Annual Savings (CCF) (2013-2024)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential New Construction	\$3.589	\$7.532	\$5.614	\$6.441	\$7.080	\$6.496	\$4.956	\$4.718	\$5.946	\$4.903	\$4.923	\$4.944
HES (Core Services, HVAC, Duct Sealing through 2015)	\$5.626	\$8.378	\$8.721	\$12.714	\$10.369	\$9.820	\$9.354	\$12.075	\$18.012	\$16.853	\$16.535	\$16.397
HVAC & Domestic Water Heating	\$ -	\$ -	\$ -	\$6.868	\$5.541	\$7.112	\$9.971	\$8.980	\$9.899	\$8.970	\$8.962	\$8.967
Insulation Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HES Early Retirement Furnace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Res High-Eff Natural Gas Furnace Replace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Window Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>HES - Total</b>	<b>\$5.626</b>	<b>\$8.378</b>	<b>\$8.721</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
HES-Income Eligible	\$7.546	\$9.458	\$11.060	\$11.941	\$11.093	\$11.922	\$12.443	\$19.509	\$15.971	\$23.343	\$23.264	\$23.363
Water Heating	\$14.605	\$6.680	\$7.409	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$1.910	\$3.526	\$4.420	\$ -	\$ -	\$1.085	\$1.085	\$1.085
<b>Subtotal: Residential EE Portfolio</b>	<b>\$6.542</b>	<b>\$8.757</b>	<b>\$9.179</b>	<b>\$10.473</b>	<b>\$7.539</b>	<b>\$8.860</b>	<b>\$9.189</b>	<b>\$11.423</b>	<b>\$12.041</b>	<b>\$12.088</b>	<b>\$12.125</b>	<b>\$12.237</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$4.432	\$6.005	\$3.402	\$4.536	\$4.944	\$5.309	\$6.321	\$5.681	\$9.094	\$9.563	\$9.598	\$9.756
Energy Opportunities	\$1.808	\$3.343	\$3.629	\$5.006	\$4.137	\$4.753	\$4.328	\$7.507	\$6.510	\$6.376	\$6.347	\$6.392
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$1.775	\$1.815	\$1.139	\$1.206	\$0.982	\$1.403	\$2.057	\$1.963	\$2.065	\$2.856	\$2.851	\$2.866
Small Business	\$5.839	\$3.768	\$6.108	\$5.759	\$8.858	\$2.376	\$4.096	\$31.531	\$10.062	\$7.764	\$7.757	\$7.780
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$2.929</b>	<b>\$4.176</b>	<b>\$3.277</b>	<b>\$3.803</b>	<b>\$3.559</b>	<b>\$3.929</b>	<b>\$4.281</b>	<b>\$5.467</b>	<b>\$6.573</b>	<b>\$6.836</b>	<b>\$6.840</b>	<b>\$6.904</b>
<b>TOTAL</b>	<b>\$5.189</b>	<b>\$7.257</b>	<b>\$6.698</b>	<b>\$6.760</b>	<b>\$5.967</b>	<b>\$6.664</b>	<b>\$6.951</b>	<b>\$9.019</b>	<b>\$9.688</b>	<b>\$10.052</b>	<b>\$10.045</b>	<b>\$10.176</b>

Table D4 – Eversource Natural Gas Cost per Lifetime Savings CCF (2013-2024)

**Table D4**  
**Eversource CT Gas - Cost per Lifetime Savings (CCF) (2013-2024)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential New Construction	\$0.165	\$0.331	\$0.234	\$0.261	\$0.304	\$0.283	\$0.207	\$0.201	\$0.270	\$0.196	\$0.197	\$0.198
HES (Core Services, HVAC, Duct Sealing through 2015)	\$0.315	\$0.435	\$0.437	\$0.671	\$0.556	\$0.518	\$0.496	\$0.660	\$0.894	\$0.824	\$0.808	\$0.804
HVAC & Domestic Water Heating	\$0.000	\$0.000	\$0.000	\$0.344	\$0.277	\$0.356	\$0.499	\$0.501	\$0.518	\$0.479	\$0.478	\$0.479
Insulation Rebate	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
HES Early Retirement Furnace Rebate	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Res High-Eff Natural Gas Furnace Replace Rebate	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Window Rebate	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
<b>HES - Total</b>	<b>\$0.315</b>	<b>\$0.435</b>	<b>\$0.437</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>	<b>\$0.000</b>
HES-Income Eligible	\$0.476	\$0.498	\$0.535	\$0.654	\$0.567	\$0.584	\$0.657	\$0.983	\$0.814	\$1.178	\$1.174	\$1.179
Water Heating	\$0.730	\$0.348	\$0.394	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000
Residential Behavior	\$0.000	\$0.000	\$0.000	\$0.000	\$0.713	\$1.365	\$1.711	\$0.000	\$0.000	\$1.085	\$1.085	\$1.085
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.383</b>	<b>\$0.452</b>	<b>\$0.443</b>	<b>\$0.536</b>	<b>\$0.470</b>	<b>\$0.452</b>	<b>\$0.492</b>	<b>\$0.603</b>	<b>\$0.604</b>	<b>\$0.609</b>	<b>\$0.611</b>	<b>\$0.617</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$0.287	\$0.396	\$0.186	\$0.303	\$0.325	\$0.365	\$0.418	\$0.404	\$0.566	\$0.663	\$0.667	\$0.678
Energy Opportunities	\$0.148	\$0.288	\$0.293	\$0.462	\$0.383	\$0.211	\$0.428	\$0.837	\$0.760	\$0.690	\$0.685	\$0.689
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$0.237	\$0.312	\$0.196	\$0.196	\$0.162	\$0.247	\$0.278	\$0.261	\$0.411	\$0.372	\$0.371	\$0.373
Small Business	\$0.506	\$0.315	\$0.446	\$0.494	\$0.636	\$0.194	\$0.301	\$2.699	\$0.803	\$0.648	\$0.648	\$0.650
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.228</b>	<b>\$0.341</b>	<b>\$0.223</b>	<b>\$0.363</b>	<b>\$0.346</b>	<b>\$0.391</b>	<b>\$0.395</b>	<b>\$0.497</b>	<b>\$0.617</b>	<b>\$0.611</b>	<b>\$0.612</b>	<b>\$0.619</b>
<b>TOTAL</b>	<b>\$0.350</b>	<b>\$0.462</b>	<b>\$0.391</b>	<b>\$0.498</b>	<b>\$0.465</b>	<b>\$0.479</b>	<b>\$0.498</b>	<b>\$0.625</b>	<b>\$0.684</b>	<b>\$0.682</b>	<b>\$0.682</b>	<b>\$0.688</b>

Table D5 – Eversource Natural Gas Units (2013-2024)

**Table D5**  
**Eversource CT Gas - Units**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
Residential New Construction	634	792	138	202	1,058	736	796	283	587	326	324	323
HES (Core Services, HVAC, Duct Sealing through 2015)	2,869	3,048	1,613	2,141	4,973	2,212	4,224	4,149	1,966	2,130	2,450	3,064
HVAC & Domestic Water Heating	-	-	-	3,350	3,393	4,783	5,406	22,633	8,688	16,768	16,987	16,977
Insulation Rebate	140	333	306	-	-	-	-	-	-	-	-	-
HES Early Retirement Furnace Rebate	34	394	-	-	-	-	-	-	-	-	-	-
Res High-Eff Natural Gas Furnace Replace Rebate	247	1,334	2,108	-	-	-	-	-	-	-	-	-
Window Rebate	217	529	336	-	-	-	-	-	-	-	-	-
<b>HES - Total</b>	<b>3,507</b>	<b>5,638</b>	<b>4,363</b>	-	-	-	-	-	-	-	-	-
HES-Income Eligible	2,052	4,070	2,978	2,205	8,590	4,036	3,808	5,485	6,549	4,449	4,530	4,511
Water Heating	54	752	1,084	-	-	-	-	-	-	-	-	-
Residential Behavior	-	-	-	-	95,000	29,750	59,270	-	-	22,000	22,000	22,000
<b>Subtotal: Residential EE Portfolio</b>	<b>6,247</b>	<b>11,252</b>	<b>8,563</b>	<b>7,898</b>	<b>113,014</b>	<b>41,517</b>	<b>73,504</b>	<b>32,550</b>	<b>17,790</b>	<b>45,673</b>	<b>46,291</b>	<b>46,875</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	136	153	150	172	192	153	205	292	157	23	24	24
Energy Opportunities	42	55	49	61	55	49	59	121	65	188	196	195
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	4	8	11	23	25	23	29	26	15	22	23	22
Small Business	50	62	58	50	53	64	78	39	106	504	515	514
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>232</b>	<b>278</b>	<b>268</b>	<b>306</b>	<b>325</b>	<b>289</b>	<b>371</b>	<b>478</b>	<b>342</b>	<b>738</b>	<b>758</b>	<b>755</b>
<b>TOTAL</b>	<b>6,479</b>	<b>11,530</b>	<b>8,831</b>	<b>8,204</b>	<b>113,339</b>	<b>41,806</b>	<b>73,875</b>	<b>33,028</b>	<b>18,133</b>	<b>46,411</b>	<b>47,049</b>	<b>47,630</b>

Eversource Gas CT PMI (2022)

**EVERSOURCE CT GAS COMPANY**

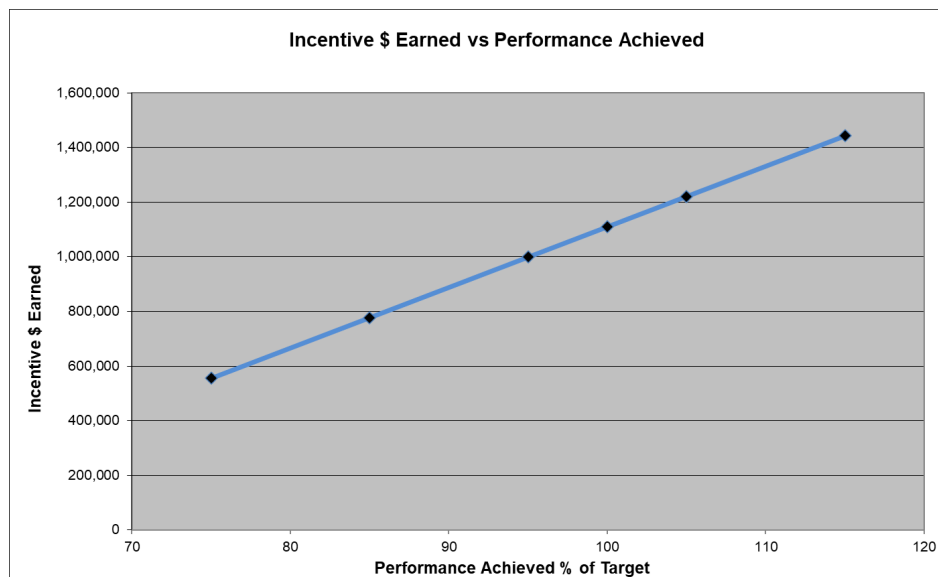
**2022 Management Incentive Performance Indicators and Incentive Matrix**

Eversource CT Gas and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB's consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Gas Performance Incentive is **\$1,110,323** and is based on achieving **100%** of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$22,206,470** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
<b>Minimum</b>		
75	2.5%	\$555,162
85	3.5%	\$777,226
95	4.5%	\$999,291
<b>100</b>	<b>5.0%</b>	<b>\$1,110,323</b>
105	5.5%	\$1,221,356
115	6.5%	\$1,443,421
<b>Maximum Budget</b>	<b>\$22,206,470</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Eversource Gas CT PMI (2022) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF	% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$11,595,579</b>				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$238,053</b>
		New Construction	3,240,166	17.02%				
		Home Energy Solutions	2,688,671	14.12%				
		HVAC	9,575,932	50.31%				
		HES - Income Eligible	3,521,346	18.50%				
		Behavior	9,218	0.05%				
		<b>Total</b>	<b>19,035,332</b>					
		Savings Rate	<b>\$0.8014</b>	/ccf				
		Savings	<b>\$15,255,039</b>					
(1) percent of target goal								
Net Residential Gas Benefit:					<b>\$3,659,460</b>	0.2144	<b>\$238,053</b>	
Home Energy Solutions	<b>\$2,214,576</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$49,965</b>
HES-Income Eligible	<b>\$4,149,666</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$49,965</b>

**Eversource Gas CT PMI (2022) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$9,362,211</b>	Energy Conscious Blueprint	6,249,496	40.82%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$206,076</b>
		Energy Opportunities	6,000,870	39.19%				
		Business and Energy Sustainability	1,924,382	12.57%				
		Small Business	1,136,144	7.42%				
		<b>Total</b>	<b>15,310,892</b>					
		Savings Rate	<b>\$0.7091</b>	/ ccf				
		Savings	<b>\$10,857,248</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:					<b>\$1,495,037</b>	0.1856	<b>\$206,076</b>	
Small Business	<b>\$736,472</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$55,516</b>	
Energy Conscious Blueprint / Energy Opportunities	<b>\$7,910,390</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$55,516</b>	
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.		Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$11,103</b>	
<b>Total Incentives</b>						<b>1.00000</b>	<b>\$1,110,323</b>	



Eversource Gas CT PMI (2023)

**EVERSOURCE CT GAS COMPANY**

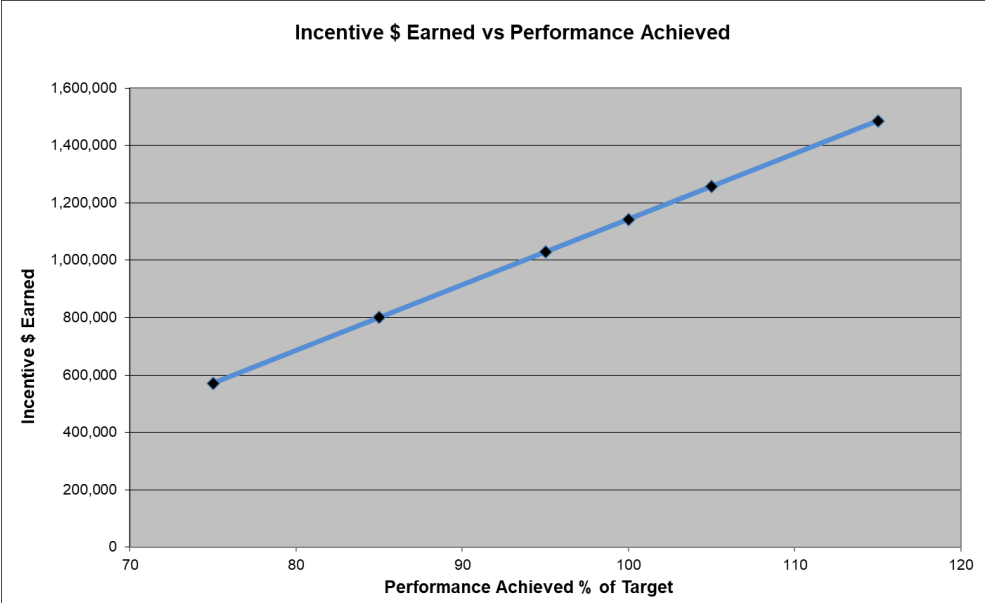
**2023 Management Incentive Performance Indicators and Incentive Matrix**

Eversource CT Gas and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB's consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Gas Performance Incentive is **\$1,143,435** and is based on achieving **100%** of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$22,868,702** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$571,718
85	3.5%	\$800,405
95	4.5%	\$1,029,092
<b>100</b>	<b>5.0%</b>	<b>\$1,143,435</b>
105	5.5%	\$1,257,779
115	6.5%	\$1,486,466
<b>Maximum Budget</b>	<b>\$22,868,702</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Eversource Gas CT PMI (2023) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF	% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$11,942,911</b>				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$245,152</b>
		New Construction	3,226,745	16.51%				
		Home Energy Solutions	3,018,284	15.44%				
		HVAC	9,700,981	49.63%				
		HES - Income Eligible	3,591,979	18.38%				
		Behavior	9,218	0.05%				
		<b>Total</b>	<b>19,547,207</b>					
		Savings Rate	<b>\$0.7663</b>	/ ccf				
		Savings	<b>\$14,978,609</b>					
		(1) percent of target goal						
Net Residential Gas Benefit:					<b>\$3,035,699</b>	0.2144	<b>\$245,152</b>	
Home Energy Solutions	<b>\$2,437,902</b>	Achieve ccf savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$51,455</b>
HES-Income Eligible	<b>\$4,217,953</b>	Achieve ccf savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$51,455</b>

**Eversource Gas CT PMI (2023) (continued)**

SECTOR		Performance Indicators			Incentive Metrics				
Program					Incentive Metric	Target Goal	Weight	Incentive	
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>		<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$9,677,112</b>	Energy Conscious Blueprint	6,429,084		40.67%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$212,222</b>
		Energy Opportunities	6,256,615		39.58%				
		Business and Energy Sustainability	1,959,686		12.40%				
		Small Business	1,160,901		7.34%				
		<b>Total</b>	<b>15,806,286</b>						
		Savings Rate	<b>\$0.7135</b>	/ccf					
		Savings	<b>\$11,277,564</b>						
		(1) percent of target goal							
Net C&I Gas System Benefit:						<b>\$1,600,452</b>	0.1856	<b>\$212,222</b>	
Small Business	<b>\$751,883</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$57,172</b>	
Energy Conscious Blueprint / Energy Opportunities	<b>\$8,198,108</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$57,172</b>	
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$11,434</b>	
<b>Total Incentives</b>							<b>1.00000</b>	<b>\$1,143,435</b>	

Eversource Gas CT PMI (2024)

**EVERSOURCE CT GAS COMPANY**

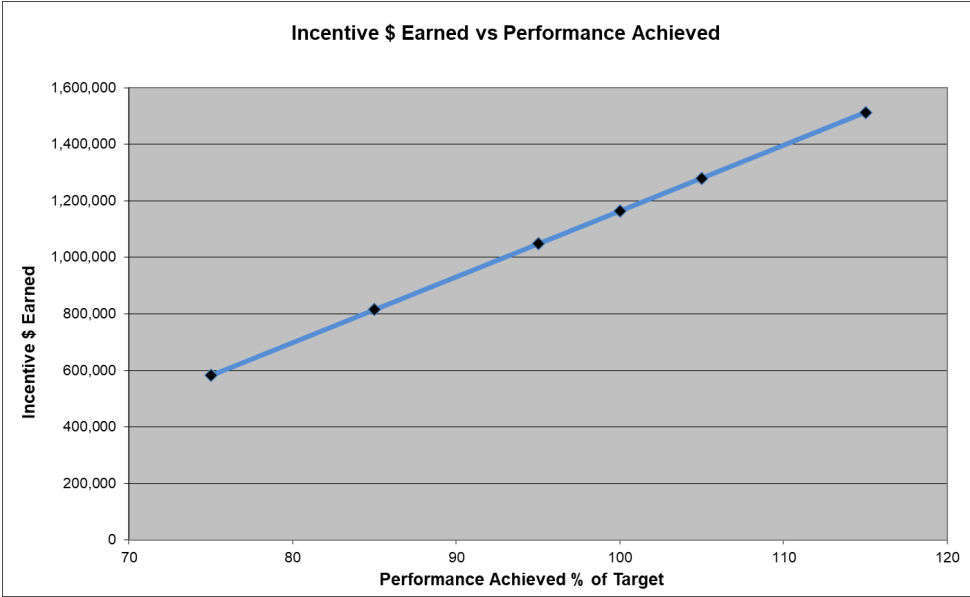
**2024 Management Incentive Performance Indicators and Incentive Matrix**

Eversource CT Gas and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB's consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected Eversource CT Gas Performance Incentive is **\$1,164,349** and is based on achieving **100%** of all performance targets and earning an incentive of **5.0%** of the total EE program budget of **\$23,286,981** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$582,175
85	3.5%	\$815,044
95	4.5%	\$1,047,914
<b>100</b>	<b>5.0%</b>	<b>\$1,164,349</b>
105	5.5%	\$1,280,784
115	6.5%	\$1,513,654
<b>Maximum Budget</b>	<b>\$23,286,981</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Eversource Gas CT PMI (2024) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF	% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$12,358,989</b>				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$249,636</b>
		New Construction	3,212,921	16.03%				
		Home Energy Solutions	3,547,954	17.70%				
		HVAC	9,695,260	48.37%				
		HES - Income Eligible	3,576,809	17.85%				
		Behavior	9,218	0.05%				
		<b>Total</b>	<b>20,042,162</b>					
		Savings Rate	<b>\$0.7698</b>	/ccf				
		Savings	<b>\$15,427,534</b>					
		(1) percent of target goal						
Net Residential Gas Benefit:					<b>\$3,068,546</b>	0.2144	<b>\$249,636</b>	
Home Energy Solutions	<b>\$2,853,980</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$52,396</b>
HES-Income Eligible	<b>\$4,217,953</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$52,396</b>

**Eversource Gas CT PMI (2024) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
COMMERCIAL & INDUSTRIAL (C&I)		Program Name	LT-CCF	% (1)				
C&I Programs (Sector Level) Sector Budget	<b>\$9,679,313</b>	Energy Conscious Blueprint	6,321,465	40.41%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$216,103</b>
		Energy Opportunities	6,216,201	39.73%				
		Business and Energy Sustainability	1,949,328	12.46%				
		Small Business	1,157,418	7.40%				
		<b>Total</b>	<b>15,644,412</b>					
		Savings Rate	<b>\$0.7175</b>	/ccf				
		Savings	<b>\$11,224,715</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:						<b>\$1,545,402</b>	0.1856	<b>\$216,103</b>
Small Business	<b>\$751,883</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$58,217</b>
Energy Conscious Blueprint / Energy Opportunities	<b>\$8,200,309</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$58,217</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$11,643</b>
<b>Total Incentives</b>							<b>1.00000</b>	<b>\$1,164,349</b>

**E.7 CONNECTICUT NATURAL GAS BUDGET AND SAVINGS TABLES**

Table A – Connecticut Natural Gas (2020-2024)

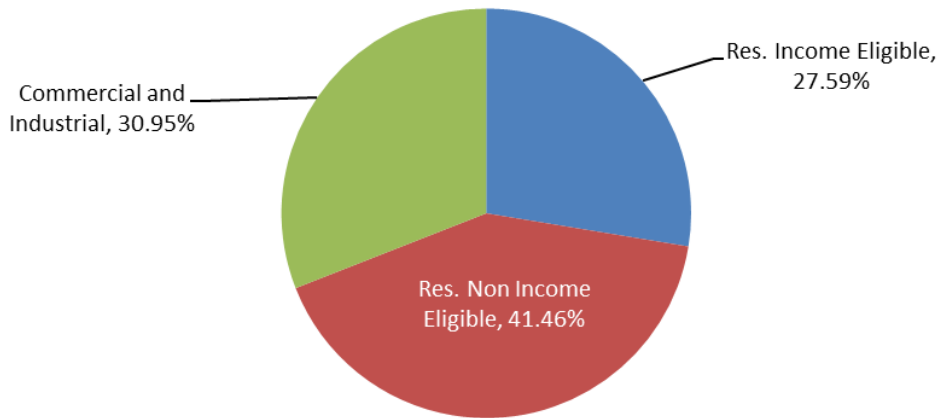
**Table A: Connecticut Natural Gas  
2020-2024 Natural Gas Conservation Budget**

Connecticut Natural Gas EE Budget	2020 CNG Actual Results 12/31/2020	2021 CNG Proposed Budget 3/1/2021	2022 CNG Proposed Budget 11/1/2021	2023 CNG Proposed Budget 11/1/2021	2024 CNG Proposed Budget 11/1/2021
<b>RESIDENTIAL</b>					
Residential New Construction	\$ 470,451	\$ 739,127	\$ 677,884	\$ 692,644	\$ 696,740
Home Energy Solutions	\$ 2,497,610	\$ 2,842,878	\$ 2,911,381	\$ 2,974,775	\$ 2,992,367
HVAC & Domestic Water Heating	\$ 2,683,072	\$ 2,321,127	\$ 1,825,036	\$ 1,865,615	\$ 1,874,345
HES-Income Eligible	\$ 96,254	\$ 4,288,661	\$ 3,937,478	\$ 4,020,763	\$ 4,044,542
Residential Behavior	\$ 151,126	\$ 162,491	\$ 149,033	\$ 152,278	\$ 153,178
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 5,898,513</b>	<b>\$ 10,354,285</b>	<b>\$ 9,500,811</b>	<b>\$ 9,706,075</b>	<b>\$ 9,761,173</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>					
Energy Conscious Blueprint	\$ 4,145,798	\$ 2,200,847	\$ 2,018,487	\$ 2,062,439	\$ 2,074,000
Energy Opportunities	\$ 813,249	\$ 1,251,158	\$ 1,147,575	\$ 1,172,502	\$ 1,179,436
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 418,511	\$ 725,292	\$ 665,196	\$ 679,680	\$ 683,699
Small Business	\$ 118,716	\$ 338,954	\$ 310,869	\$ 317,638	\$ 319,516
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 5,496,274</b>	<b>\$ 4,516,252</b>	<b>\$ 4,142,127</b>	<b>\$ 4,232,258</b>	<b>\$ 4,256,651</b>
<b>DEMAND MANAGEMENT</b>					
Demand Management - Residential	\$ -	\$ -	\$ 51,485	\$ 108,119	\$ 113,524
Demand Management - C&I	\$ -	\$ -	\$ 140,292	\$ 144,501	\$ 148,836
<b>Subtotal Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 191,777</b>	<b>\$ 252,619</b>	<b>\$ 262,360</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>					
Energy Education	\$ 31,421	\$ 45,164	\$ 76,667	\$ 76,667	\$ 76,667
Workforce Development	\$ 24,597	\$ 67,473	\$ 82,667	\$ 82,667	\$ 82,667
Community Outreach	\$ 64,578	\$ 76,089	\$ 80,000	\$ 80,000	\$ 80,000
Customer Engagement Initiative	\$ -	\$ 100,000	\$ 50,000	\$ 50,000	\$ 50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 120,596</b>	<b>\$ 288,726</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>					
Financing Support – Residential	\$ 52,478	\$ 86,292	\$ 86,292	\$ 86,292	\$ 86,292
Financing Support - C&I	\$ -	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000
Research, Development and Demonstration	\$ 20,164	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 72,642</b>	<b>\$ 156,292</b>	<b>\$ 156,292</b>	<b>\$ 156,292</b>	<b>\$ 156,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>					
Administration	\$ 81,470	\$ 159,218	\$ 159,218	\$ 159,218	\$ 159,218
Marketing Plan	\$ 10,696	\$ 40,100	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 114,343	\$ 102,465	\$ 102,465	\$ 102,465	\$ 102,465
Evaluation Measurement and Verification	\$ 197,792	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000
Evaluation Administrator	\$ 21,866	\$ 21,931	\$ 29,607	\$ 29,607	\$ 29,607
Information Technology	\$ 97,802	\$ 140,589	\$ 574,589	\$ 274,589	\$ 250,589
Energy Efficiency Board Consultants	\$ 43,333	\$ 43,333	\$ 53,333	\$ 53,333	\$ 53,333
Audits - Financial and Operational	\$ 1,597	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Performance Management Incentive	\$ 727,765	\$ 718,115	\$ 772,836	\$ 775,647	\$ 778,909
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 1,296,665</b>	<b>\$ 1,435,751</b>	<b>\$ 2,042,147</b>	<b>\$ 1,744,959</b>	<b>\$ 1,724,221</b>
<b>TOTAL</b>	<b>\$ 12,884,689</b>	<b>\$ 16,751,305</b>	<b>\$ 16,322,487</b>	<b>\$ 16,381,537</b>	<b>\$ 16,450,030</b>

Table A Pie Chart - Connecticut Natural Gas (2022)

**Connecticut Natural Gas  
2022 Budget Analysis**

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$3,937,478	24.12%	27.59%
Res. Non Income-Eligible	\$5,915,857	36.24%	41.46%
<b>Residential Subtotal</b>	<b>\$9,853,335</b>	<b>60.37%</b>	<b>69.05%</b>
Commercial and Industrial	\$4,417,105	27.06%	30.95%
<b>C&amp;I Subtotal</b>	<b>\$4,417,105</b>	<b>27.06%</b>	<b>30.95%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$14,270,440</b>	<b>87.43%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$2,052,047	12.57%	
<b>Other Expenditures Subtotal</b>	<b>\$2,052,047</b>	<b>12.57%</b>	
<b>TOTAL</b>	<b>\$16,322,487</b>	<b>100.00%</b>	

Totals may vary due to rounding.

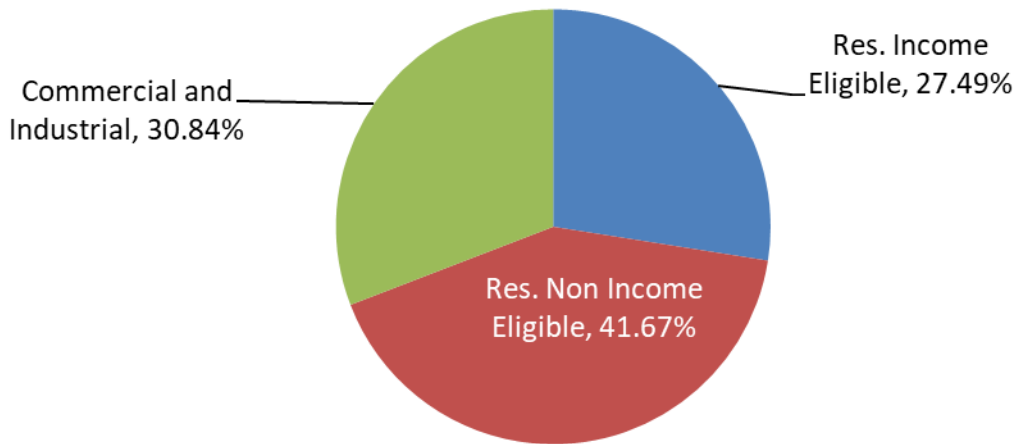
\*Please see attached Budget Allocation Table.



Table A Pie Chart - Connecticut Natural Gas (2023)

Connecticut Natural Gas  
2023 Budget Analysis

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$4,020,763	24.54%	27.49%
Res. Non Income-Eligible	\$6,094,469	37.20%	41.67%
<b>Residential Subtotal</b>	<b>\$10,115,232</b>	<b>61.75%</b>	<b>69.16%</b>
Commercial and Industrial	\$4,511,446	27.54%	30.84%
<b>C&amp;I Subtotal</b>	<b>\$4,511,446</b>	<b>27.54%</b>	<b>30.84%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$14,626,678</b>	<b>89.29%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,754,859	10.71%	
<b>Other Expenditures Subtotal</b>	<b>\$1,754,859</b>	<b>10.71%</b>	
<b>TOTAL</b>	<b>\$16,381,537</b>	<b>100.00%</b>	

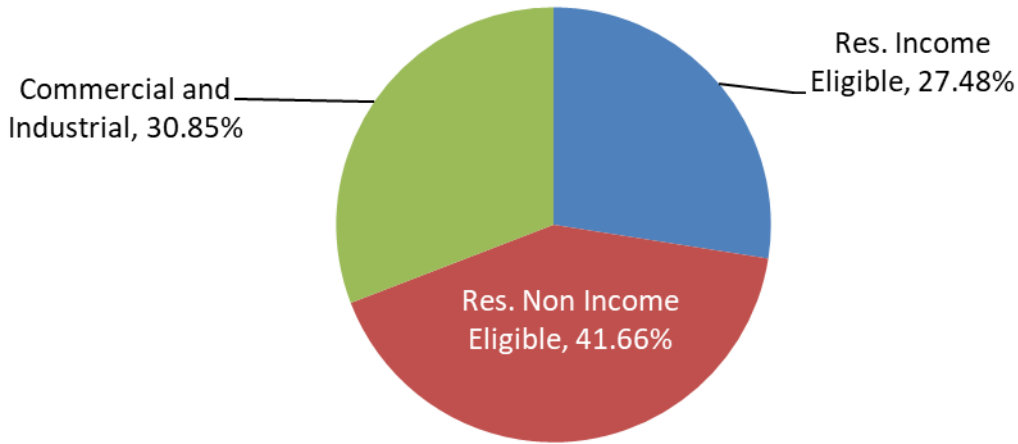
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Table A Pie Chart - Connecticut Natural Gas (2024)

**Connecticut Natural Gas  
2024 Budget Analysis**

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$4,044,542	24.59%	27.48%
Res. Non Income-Eligible	\$6,131,194	37.27%	41.66%
<b>Residential Subtotal</b>	<b>\$10,175,736</b>	<b>61.86%</b>	<b>69.15%</b>
Commercial and Industrial	\$4,540,174	27.60%	30.85%
<b>C&amp;I Subtotal</b>	<b>\$4,540,174</b>	<b>27.60%</b>	<b>30.85%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$14,715,909</b>	<b>89.46%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,734,121	10.54%	
<b>Other Expenditures Subtotal</b>	<b>\$1,734,121</b>	<b>10.54%</b>	
<b>TOTAL</b>	<b>\$16,450,030</b>	<b>100.00%</b>	

Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Connecticut Natural Gas Table A Budget Allocation (2020-2024)

Table A Pie Sector Allocation			
	Residential	C&I	Other
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	80%	20%	0%
Workforce Development	50%	50%	0%
Community Outreach	50%	50%	0%
Customer Engagement Initiative	80%	20%	0%
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	0%	0%	100%
Marketing Plan	80%	20%	0%
Planning	0%	0%	100%
Evaluation Measurement and Verification	0%	0%	100%
Evaluation Administrator	0%	0%	100%
Information Technology	0%	0%	100%
Energy Efficiency Board Consultants	0%	0%	100%
Audit - Financial and Operational	0%	0%	100%
Performance Management Incentive	0%	0%	100%
<p>Note: Core Residential and C&amp;I programs that produce savings are allocated 100% to the Residential and C&amp;I sectors, respectively. Other programs budgets are allocated to both Residential and C&amp;I sectors based on an estimated percentage of the sector that those dollars will directly benefit by the percentages above.</p>			

Table B – Connecticut Natural Gas (2022)

2022 CNG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$678	\$678	\$1,370	\$2,350	\$2,350	\$4,558	3.47	3.33	664	Homes
Home Energy Solutions	\$2,911	\$2,911	\$2,911	\$2,903	\$2,903	\$5,553	1.00	1.91	1,863	Homes
HVAC	\$1,825	\$1,825	\$2,872	\$2,414	\$2,414	\$4,662	1.32	1.62	2,659	Units
HES - Income Eligible	\$3,937	\$3,937	\$3,938	\$3,779	\$3,779	\$9,973	0.96	2.53	1,354	Homes
Behavior	\$149	\$149	\$149	\$315	\$315	\$543	2.12	3.64	15,874	Units
<b>Subtotal: Residential</b>	<b>\$9,501</b>	<b>\$9,501</b>	<b>\$11,240</b>	<b>\$11,760</b>	<b>\$11,760</b>	<b>\$25,289</b>	<b>1.24</b>	<b>2.25</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$2,018	\$2,018	\$3,618	\$2,507	\$2,507	\$5,183	1.24	1.43	252	Projects
Energy Opportunities	\$1,148	\$1,148	\$1,978	\$1,247	\$1,247	\$2,571	1.09	1.30	85	Projects
BES	\$665	\$665	\$1,156	\$1,217	\$1,217	\$2,400	1.83	2.08	15	Projects
Small Business	\$311	\$311	\$528	\$341	\$341	\$717	1.10	1.36	52	Projects
<b>Subtotal: C&amp;I</b>	<b>\$4,142</b>	<b>\$4,142</b>	<b>\$7,280</b>	<b>\$5,313</b>	<b>\$5,313</b>	<b>\$10,870</b>	<b>1.28</b>	<b>1.49</b>	-	Projects
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,680</b>	<b>\$2,680</b>	<b>\$2,680</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$16,322</b>	<b>\$16,322</b>	<b>\$21,200</b>	<b>\$17,074</b>	<b>\$17,074</b>	<b>\$36,159</b>	<b>1.05</b>	<b>1.71</b>	<b>-</b>	<b>-</b>

**Table B – Connecticut Natural Gas (2022) (continued)**

2022 CNG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	\$ -	\$ -	-	\$ -	-	-	\$ -	\$ -	-	-
New Construction	122,741	3,068,520	489	\$5.523	\$0.221	\$1,388	\$56	12,630	315,751	\$54	\$2	908	22,709
Home Energy Solutions	182,644	3,606,930	1,808	\$15.940	\$0.807	\$1,610	\$82	18,794	371,153	\$155	\$8	1,358	26,847
HVAC	153,018	3,050,635	1,360	\$11.927	\$0.598	\$1,342	\$67	15,746	313,910	\$116	\$6	1,132	22,577
HES - Income Eligible	229,442	4,778,221	10,843	\$17.161	\$0.824	\$363	\$17	23,610	491,679	\$167	\$8	1,698	35,362
Behavior	141,925	283,850	-	\$1.050	\$0.525	\$ -	\$ -	14,604	29,208	\$10	\$5	1,050	2,101
<b>Subtotal: Residential</b>	<b>829,770</b>	<b>14,788,155</b>	<b>14,500</b>	<b>\$11.450</b>	<b>\$0.642</b>	<b>\$655</b>	<b>\$37</b>	<b>85,383</b>	<b>1,521,701</b>	<b>\$111</b>	<b>\$6</b>	<b>6,147</b>	<b>109,595</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	198,850	3,604,149	2,115	\$10.151	\$0.560	\$954	\$53	20,462	370,867	\$99	\$5	1,472	26,673
Energy Opportunities	182,284	1,708,719	1,877	\$6.296	\$0.672	\$611	\$65	18,757	175,827	\$61	\$7	1,349	12,646
BES	251,747	1,501,247	3,251	\$2.642	\$0.443	\$205	\$34	25,905	154,478	\$26	\$4	1,863	11,110
Small Business	41,971	491,351	302	\$7.407	\$0.633	\$1,029	\$88	4,319	50,560	\$72	\$6	311	3,636
<b>Subtotal: C&amp;I</b>	<b>674,853</b>	<b>7,305,467</b>	<b>7,545</b>	<b>\$6.138</b>	<b>\$0.567</b>	<b>\$549</b>	<b>\$51</b>	<b>69,442</b>	<b>751,733</b>	<b>\$60</b>	<b>\$6</b>	<b>4,994</b>	<b>54,065</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>													
<b>TOTAL</b>	<b>1,504,623</b>	<b>22,093,622</b>	<b>22,045</b>	<b>\$10.848</b>	<b>\$0.739</b>	<b>\$740</b>	<b>\$50</b>	<b>154,826</b>	<b>2,273,434</b>	<b>\$105</b>	<b>\$7</b>	<b>11,141</b>	<b>163,660</b>

Table B – Connecticut Natural Gas (2023)

2023 CNG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$693	\$693	\$1,401	\$2,422	\$2,422	\$4,722	3.50	3.37	680	Homes
Home Energy Solutions	\$2,975	\$2,975	\$2,975	\$3,000	\$3,000	\$5,775	1.01	1.94	1,914	Homes
HVAC	\$1,866	\$1,866	\$2,940	\$2,491	\$2,491	\$4,843	1.33	1.65	2,728	Units
HES - Income Eligible	\$4,021	\$4,021	\$4,021	\$3,826	\$3,826	\$10,113	0.95	2.52	1,519	Homes
Behavior	\$152	\$152	\$152	\$321	\$321	\$554	2.11	3.63	15,080	Units
<b>Subtotal: Residential</b>	<b>\$9,706</b>	<b>\$9,706</b>	<b>\$11,488</b>	<b>\$12,058</b>	<b>\$12,058</b>	<b>\$26,007</b>	<b>1.24</b>	<b>2.26</b>	<b>-</b>	<b>-</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$2,062	\$2,062	\$3,706	\$2,554	\$2,554	\$5,298	1.24	1.43	259	Projects
Energy Opportunities	\$1,173	\$1,173	\$2,027	\$1,264	\$1,264	\$2,627	1.08	1.30	88	Projects
BES	\$680	\$680	\$1,185	\$1,229	\$1,229	\$2,446	1.81	2.06	15	Projects
Small Business	\$318	\$318	\$545	\$349	\$349	\$738	1.10	1.35	53	Projects
<b>Subtotal: C&amp;I</b>	<b>\$4,232</b>	<b>\$4,232</b>	<b>\$7,464</b>	<b>\$5,396</b>	<b>\$5,396</b>	<b>\$11,110</b>	<b>1.27</b>	<b>1.49</b>	<b>-</b>	<b>-</b>
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,443</b>	<b>\$2,433</b>	<b>\$21,395</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$16,382</b>	<b>\$16,382</b>	<b>\$21,395</b>	<b>\$17,454</b>	<b>\$17,454</b>	<b>\$37,117</b>	<b>1.07</b>	<b>1.73</b>	<b>-</b>	<b>-</b>

**Table B – Connecticut Natural Gas (2023) (continued)**

2023 CNG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	-	\$-	\$-	\$-	-	-	\$-	\$-	-	-
New Construction	125,362	3,134,040	497	\$5.525	\$0.221	\$1,394	\$56	12,900	322,493	\$54	\$2	928	23,194
Home Energy Solutions	187,655	3,705,903	1,858	\$15.852	\$0.803	\$1,601	\$81	19,310	381,337	\$154	\$8	1,395	27,584
HVAC	157,005	3,130,116	1,395	\$11.883	\$0.596	\$1,337	\$67	16,156	322,089	\$115	\$6	1,162	23,165
HES - Income Eligible	229,605	4,804,774	11,040	\$17.512	\$0.837	\$364	\$17	23,626	494,411	\$170	\$8	1,699	35,558
Behavior	142,154	284,307	\$-	\$1.071	\$0.536	\$-	\$-	14,628	29,255	\$10	\$5	1,052	2,104
<b>Subtotal: Residential</b>	<b>841,781</b>	<b>15,059,140</b>	<b>14,790</b>	<b>\$11.530</b>	<b>\$0.645</b>	<b>\$656</b>	<b>\$37</b>	<b>86,619</b>	<b>1,549,586</b>	<b>\$112</b>	<b>\$6</b>	<b>6,236</b>	<b>111,605</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	200,006	3,624,697	2,127	\$10.312	\$0.569	\$970	\$54	20,581	372,981	\$100	\$6	1,480	26,825
Energy Opportunities	184,077	1,725,528	1,896	\$6.370	\$0.680	\$619	\$66	18,942	177,557	\$62	\$7	1,362	12,770
BES	254,089	1,515,211	3,281	\$2.675	\$0.449	\$207	\$35	26,146	155,915	\$26	\$4	1,880	11,213
Small Business	42,652	499,314	307	\$7.447	\$0.636	\$1,034	\$88	4,389	51,379	\$72	\$6	316	3,695
<b>Subtotal: C&amp;I</b>	<b>680,823</b>	<b>7,364,750</b>	<b>7,610</b>	<b>\$6.216</b>	<b>\$0.575</b>	<b>\$556</b>	<b>\$51</b>	<b>70,057</b>	<b>757,833</b>	<b>\$60</b>	<b>\$6</b>	<b>5,039</b>	<b>54,504</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>													
<b>TOTAL</b>	<b>1,522,604</b>	<b>22,423,890</b>	<b>22,400</b>	<b>\$10.759</b>	<b>\$0.731</b>	<b>\$731</b>	<b>\$50</b>	<b>156,676</b>	<b>2,307,418</b>	<b>\$105</b>	<b>\$7</b>	<b>11,275</b>	<b>166,108</b>

Table B – Connecticut Natural Gas (2024)

2024 CNG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$697	\$697	\$1,411	2,462	\$2,462	\$4,833	3.53	3.43	685	Homes
Home Energy Solutions	\$2,992	\$2,992	\$2,992	3,029	\$3,029	\$5,880	1.01	1.97	1,928	Homes
HVAC	\$1,874	\$1,874	\$2,954	2,510	\$2,510	\$4,923	1.34	1.67	2,743	Units
HES - Income Eligible	\$4,045	\$4,045	\$4,045	3,783	\$3,783	\$10,054	0.94	2.49	1,674	Homes
Behavior	\$153	\$153	\$153	299	\$299	\$527	1.95	3.44	14,326	Units
<b>Subtotal: Residential</b>	<b>\$9,761</b>	<b>\$9,761</b>	<b>\$11,555</b>	<b>\$12,083</b>	<b>\$12,083</b>	<b>\$26,217</b>	<b>1.24</b>	<b>2.27</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$2,074	\$2,074	\$3,729	\$2,553	\$2,553	\$5,317	1.23	1.43	261	Projects
Energy Opportunities	\$1,179	\$1,179	\$2,041	\$1,253	\$1,253	\$2,628	1.06	1.29	88	Projects
BES	\$684	\$684	\$1,193	\$1,211	\$1,211	\$2,439	1.77	2.04	15	Projects
Small Business	\$320	\$320	\$550	\$345	\$345	\$735	1.08	1.34	53	Projects
<b>Subtotal: C&amp;I</b>	<b>\$4,257</b>	<b>\$4,257</b>	<b>\$7,514</b>	<b>\$5,363</b>	<b>\$5,363</b>	<b>\$11,118</b>	<b>1.26</b>	<b>1.48</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,432</b>	<b>\$2,432</b>	<b>\$2,432</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$16,450</b>	<b>\$16,450</b>	<b>\$21,501</b>	<b>\$17,446</b>	<b>\$17,446</b>	<b>\$37,335</b>	<b>1.06</b>	<b>1.74</b>	<b>-</b>	<b>-</b>



**Table B – Connecticut Natural Gas (2024) (continued)**

2024 CNG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	\$ -	\$ -	\$ -	\$ -	-	-	\$ -	\$ -	--	-
New Construction	126,680	3,166,995	505	\$5.500	\$0.220	\$1,381	\$55	13,035	325,884	\$53	\$2	938	23,438
Home Energy Solutions	189,046	3,733,369	1,872	\$15.829	\$0.802	\$1,599	\$81	19,453	384,164	\$154	\$8	1,405	27,788
HVAC	157,863	3,147,215	1,403	\$11.873	\$0.596	\$1,336	\$67	16,244	323,848	\$115	\$6	1,168	23,291
HES - Income Eligible	225,504	4,744,551	11,051	\$17.936	\$0.852	\$366	\$17	23,204	488,214	\$174	\$8	1,669	35,113
Behavior	136,438	272,876	0	\$1.123	\$0.561	\$ -	\$ -	14,039	28,079	\$11	\$5	1,010	2,019
<b>Subtotal: Residential</b>	<b>835,531</b>	<b>15,065,007</b>	<b>14,830</b>	<b>\$11.683</b>	<b>\$0.648</b>	<b>\$658</b>	<b>\$37</b>	<b>85,976</b>	<b>1,550,189</b>	<b>\$114</b>	<b>\$6</b>	<b>6,190</b>	<b>111,649</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	197,464	3,578,620	2,100	\$10.503	\$0.580	\$988	\$55	20,319	368,240	\$102	\$6	1,461	26,484
Energy Opportunities	181,932	1,705,415	1,874	\$6.483	\$0.692	\$630	\$67	18,721	175,487	\$63	\$7	1,346	12,621
BES	251,087	1,497,309	3,242	\$2.723	\$0.457	\$211	\$35	25,837	154,073	\$26	\$4	1,858	11,081
Small Business	41,922	490,773	302	\$7.622	\$0.651	\$1,059	\$90	4,314	50,500	\$74	\$6	310	3,632
<b>Subtotal: C&amp;I</b>	<b>672,404</b>	<b>7,272,116</b>	<b>7,517</b>	<b>\$6.330</b>	<b>\$0.585</b>	<b>\$566</b>	<b>\$52</b>	<b>69,190</b>	<b>748,301</b>	<b>\$62</b>	<b>\$6</b>	<b>4,976</b>	<b>53,818</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>													
<b>TOTAL</b>	<b>1,507,934</b>	<b>22,337,123</b>	<b>22,347</b>	<b>\$10.909</b>	<b>\$0.736</b>	<b>\$736</b>	<b>\$50</b>	<b>155,166</b>	<b>2,298,490</b>	<b>\$106</b>	<b>\$7</b>	<b>11,166</b>	<b>165,467</b>

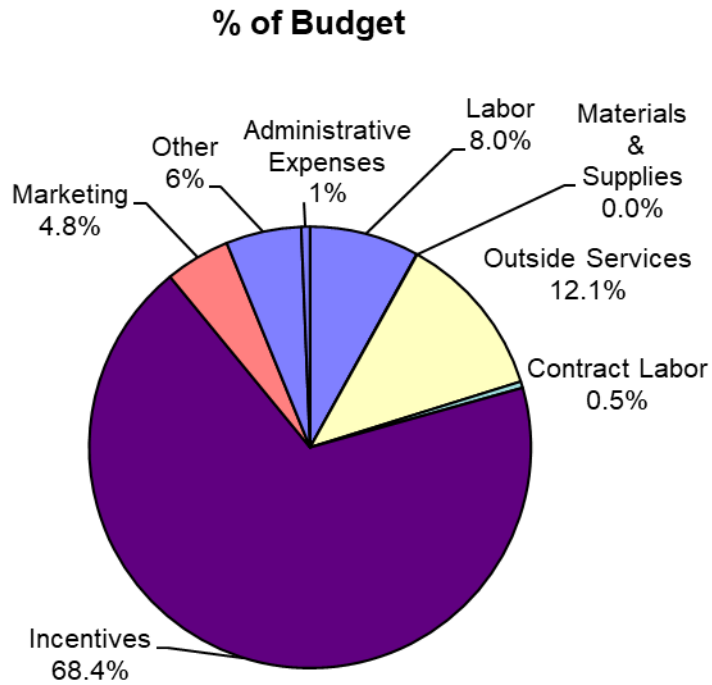
Table C – Connecticut Natural Gas (2022)

Table C  
CNG 2022 EE Budget Details

CNG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$77,631	\$200	\$3,132	\$1,500	\$582,709	\$10,211	\$875	\$1,625	\$677,884
HES - Core Services	\$197,983	\$700	\$217,733	\$50,000	\$2,310,298	\$130,639	\$1,409	\$2,618	\$2,911,381
HES - HVAC, Water Heaters	\$66,270	\$500	\$150,672	\$6,000	\$1,557,501	\$41,092	\$1,050	\$1,950	\$1,825,036
HES-Income Eligible	\$197,285	\$1,000	\$47,800	\$6,000	\$3,583,371	\$99,421	\$910	\$1,690	\$3,937,478
Residential Behavior	\$18,935	\$100	\$129,998	\$0	\$0	\$0	\$0	\$0	\$149,033
<b>Subtotal: Residential EE Portfolio</b>	<b>\$558,105</b>	<b>\$2,500</b>	<b>\$549,335</b>	<b>\$63,500</b>	<b>\$8,033,879</b>	<b>\$281,364</b>	<b>\$4,244</b>	<b>\$7,883</b>	<b>\$9,500,811</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$126,213	\$1,000	\$47,970	\$3,000	\$1,599,717	\$216,668	\$3,417	\$20,502	\$2,018,487
Energy Opportunities	\$126,213	\$700	\$26,316	\$4,000	\$829,963	\$155,133	\$250	\$5,000	\$1,147,575
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$102,246	\$500	\$7,112	\$1,000	\$491,200	\$55,387	\$250	\$7,500	\$665,196
Small Business	\$70,728	\$200	\$5,250	\$5,000	\$144,970	\$24,220	\$500	\$60,000	\$310,869
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$425,401</b>	<b>\$2,400</b>	<b>\$86,649</b>	<b>\$13,000</b>	<b>\$3,065,850</b>	<b>\$451,408</b>	<b>\$4,417</b>	<b>\$93,002</b>	<b>\$4,142,127</b>
<b>DEMAND MANAGEMENT</b>									
Demand Management - Residential	\$ -	\$ -	\$20,860	\$ -	\$30,625	\$ -	\$ -	\$ -	\$51,485
Demand Management - C&I	\$ -	\$ -	\$102,792	\$ -	\$37,500	\$ -	\$ -	\$ -	\$140,292
<b>Subtotal Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$123,652</b>	<b>\$ -</b>	<b>\$68,125</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$191,777</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$ -	\$ -	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$ -	\$ -	\$82,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$ -	\$ -	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$ -	\$ -	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$20,000	\$ -	\$20,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$106,292</b>	<b>\$ -</b>	<b>\$156,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,383	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,218
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$521,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$574,589
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$772,836	\$ -	\$772,836
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$923,644</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40,100</b>	<b>\$772,836</b>	<b>\$ -</b>	<b>\$2,042,147</b>
<b>TOTAL BUDGET</b>	<b>\$1,310,115</b>	<b>\$5,792</b>	<b>\$1,977,150</b>	<b>\$76,500</b>	<b>\$11,167,855</b>	<b>\$779,204</b>	<b>\$901,017</b>	<b>\$104,854</b>	<b>\$16,322,487</b>

Table C Pie Chart – Connecticut Natural Gas (2022)

**CONNECTICUT NATURAL GAS  
2022 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 1,310,115	8.03%
Materials & Supplies	\$ 5,792	0.04%
Outside Services	\$ 1,977,150	12.11%
Incentives	\$ 76,500	0.47%
Marketing	\$ 11,167,855	68.42%
Other	\$ 779,204	4.77%
Administrative Expenses	\$ 901,017	5.52%
<b>Total</b>	<b>\$ 16,322,487</b>	<b>100.00%</b>

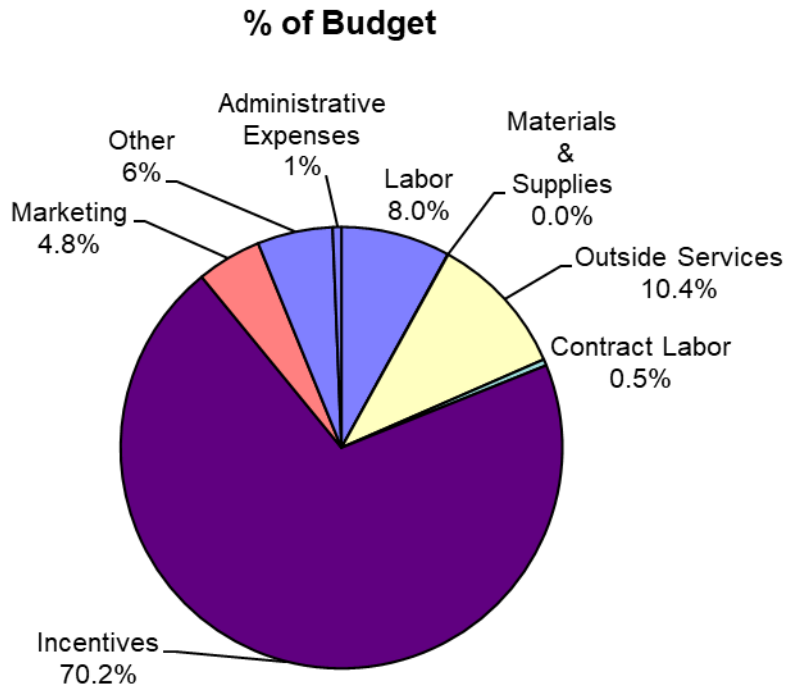
Table C – Connecticut Natural Gas (2023)

Table C  
CNG 2023 EE Budget Details

CNG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$77,631	\$200	\$3,132	\$1,500	\$597,470	\$10,211	\$875	\$1,625	\$692,644
HES	\$197,983	\$700	\$217,733	\$50,000	\$2,373,692	\$130,639	\$1,409	\$2,618	\$2,974,775
HES - HVAC, Water Heaters	\$66,270	\$500	\$150,672	\$6,000	\$1,598,080	\$41,092	\$1,050	\$1,950	\$1,865,615
HES-Income Eligible	\$197,285	\$1,000	\$47,800	\$6,000	\$3,666,656	\$99,421	\$910	\$1,690	\$4,020,763
Residential Behavior	\$18,935	\$100	\$133,243	\$ -	\$ -	\$ -	\$ -	\$ -	\$152,278
<b>Subtotal: Residential EE Portfolio</b>	<b>\$558,105</b>	<b>\$2,500</b>	<b>\$552,581</b>	<b>\$63,500</b>	<b>\$8,235,898</b>	<b>\$281,364</b>	<b>\$4,244</b>	<b>\$7,883</b>	<b>\$9,706,075</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$126,213	\$1,000	\$47,970	\$3,000	\$1,643,669	\$216,668	\$3,417	\$20,502	\$2,062,439
Energy Opportunities	\$126,213	\$700	\$26,316	\$4,000	\$854,890	\$155,133	\$250	\$5,000	\$1,172,502
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$102,246	\$500	\$7,112	\$1,000	\$505,684	\$55,387	\$250	\$7,500	\$679,680
Small Business	\$70,728	\$200	\$5,250	\$5,000	\$151,739	\$24,220	\$500	\$60,000	\$317,638
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$425,401</b>	<b>\$2,400</b>	<b>\$86,649</b>	<b>\$13,000</b>	<b>\$3,155,982</b>	<b>\$451,408</b>	<b>\$4,417</b>	<b>\$93,002</b>	<b>\$4,232,258</b>
<b>DEMAND MANAGEMENT</b>									
Demand Mgmt. - Res	\$ -	\$ -	\$43,806	\$ -	\$64,313	\$ -	\$ -	\$ -	\$108,119
Demand Mgmt. - C&I	\$ -	\$ -	\$105,876	\$ -	\$38,625	\$ -	\$ -	\$ -	\$144,501
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$149,682</b>	<b>\$ -</b>	<b>\$102,938</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$252,619</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$0	\$0	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$0	\$0	\$82,667	\$0	\$0	\$0	\$0	\$0	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$0	\$0	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$0	\$0	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$20,000	\$ -	\$20,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$106,292</b>	<b>\$ -</b>	<b>\$156,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,383	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,218
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$221,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$274,589
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$775,647	\$ -	\$775,647
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$623,644</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$775,647</b>	<b>\$ -</b>	<b>\$1,744,959</b>
<b>TOTAL BUDGET</b>	<b>\$1,310,115</b>	<b>\$5,792</b>	<b>\$1,706,425</b>	<b>\$76,500</b>	<b>\$11,494,818</b>	<b>\$779,204</b>	<b>\$903,829</b>	<b>\$104,854</b>	<b>\$16,381,537</b>

Table C Pie Chart – Connecticut Natural Gas (2023)

**CONNECTICUT NATURAL GAS  
2023 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 1,310,115	8.00%
Materials & Supplies	\$ 5,792	0.04%
Outside Services	\$ 1,706,425	10.42%
Incentives	\$ 76,500	0.47%
Marketing	\$ 11,494,818	70.17%
Other	\$ 779,204	4.76%
Administrative Expenses	\$ 903,829	5.52%
<b>Total</b>	<b>\$ 16,381,537</b>	<b>100.00%</b>

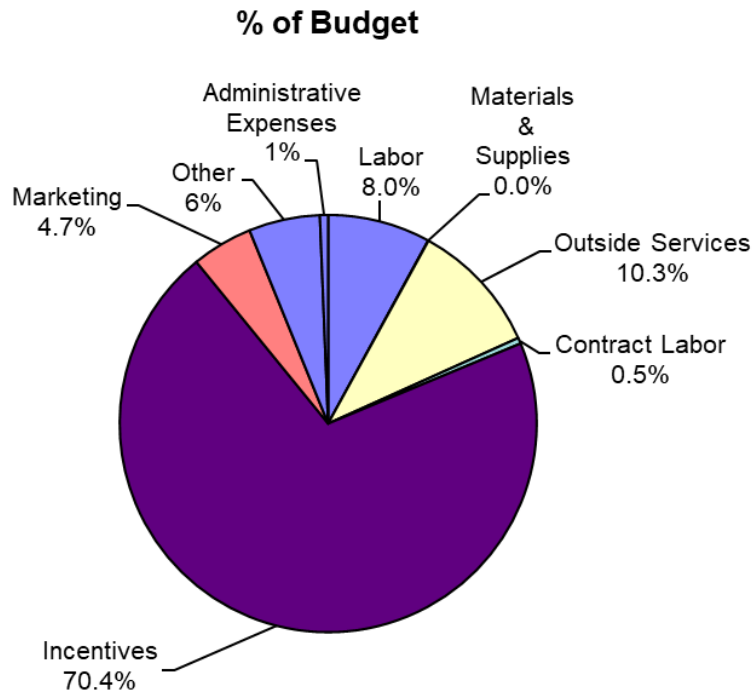
Table C – Connecticut Natural Gas (2024)

Table C  
CNG 2024 EE Budget Details

CNG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$77,631	\$200	\$3,132	\$1,500	\$601,566	\$10,211	\$875	\$1,625	\$696,740
HES - Core Services	\$197,983	\$700	\$217,733	\$50,000	\$2,391,284	\$130,639	\$1,409	\$2,618	\$2,992,367
HES - HVAC, Water Heaters	\$66,270	\$500	\$150,672	\$6,000	\$1,606,811	\$41,092	\$1,050	\$1,950	\$1,874,345
HES-Income Eligible	\$197,285	\$1,000	\$47,800	\$6,000	\$3,690,435	\$99,421	\$910	\$1,690	\$4,044,542
Residential Behavior	\$18,935	\$100	\$134,143	\$ -	\$ -	\$ -	\$ -	\$ -	\$153,178
<b>Subtotal: Residential EE Portfolio</b>	<b>\$558,105</b>	<b>\$2,500</b>	<b>\$553,481</b>	<b>\$63,500</b>	<b>\$8,290,095</b>	<b>\$281,364</b>	<b>\$4,244</b>	<b>\$7,883</b>	<b>\$9,761,173</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$126,213	\$1,000	\$47,970	\$3,000	\$1,655,230	\$216,668	\$3,417	\$20,502	\$2,074,000
Energy Opportunities	\$126,213	\$700	\$26,316	\$4,000	\$861,824	\$155,133	\$250	\$5,000	\$1,179,436
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$102,246	\$500	\$7,112	\$1,000	\$509,704	\$55,387	\$250	\$7,500	\$683,699
Small Business	\$70,728	\$200	\$5,250	\$5,000	\$153,618	\$24,220	\$500	\$60,000	\$319,516
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$425,401</b>	<b>\$2,400</b>	<b>\$86,649</b>	<b>\$13,000</b>	<b>\$3,180,375</b>	<b>\$451,408</b>	<b>\$4,417</b>	<b>\$93,002</b>	<b>\$4,256,651</b>
<b>DEMAND MANAGEMENT</b>									
Demand Mgmt. - Res	\$ -	\$ -	\$45,996	\$ -	\$67,528	\$ -	\$ -	\$ -	\$113,524
Demand Mgmt. - C&I	\$ -	\$ -	\$109,052	\$ -	\$39,784	\$ -	\$ -	\$ -	\$148,836
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$155,048</b>	<b>\$ -</b>	<b>\$107,312</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$262,360</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$ -	\$ -	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$ -	\$ -	\$82,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$ -	\$ -	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$ -	\$ -	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$20,000	\$ -	\$20,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$106,292</b>	<b>\$ -</b>	<b>\$156,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,383	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,218
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$0	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$0	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$197,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$250,589
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$778,909	\$ -	\$778,909
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$599,644</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$778,909</b>	<b>\$ -</b>	<b>\$1,724,221</b>
<b>TOTAL BUDGET</b>	<b>\$1,310,115</b>	<b>\$5,792</b>	<b>\$1,688,692</b>	<b>\$76,500</b>	<b>\$11,577,782</b>	<b>\$779,204</b>	<b>\$907,091</b>	<b>\$104,854</b>	<b>\$16,450,030</b>

Table C Pie Chart – Connecticut Natural Gas (2024)

**CONNECTICUT NATURAL GAS  
2024 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 1,310,115	7.96%
Materials & Supplies	\$ 5,792	0.04%
Outside Services	\$ 1,688,692	10.27%
Incentives	\$ 76,500	0.47%
Marketing	\$ 11,577,782	70.38%
Other	\$ 779,204	4.74%
Administrative Expenses	\$ 907,091	5.51%
<b>Total</b>	<b>\$ 16,450,030</b>	<b>100.00%</b>

Table D – Connecticut Natural Gas CT Historical and Projected Expenditures (2013-2024)

Table D: CNG Historical and Projected \$ (2013-2024)

## Expenditures \$ (000)

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
HES-Income Eligible Weatherization	\$904	\$2,912	\$4,513	\$4,256	\$5,307	\$4,987
Home Energy Solutions	\$2,014	\$4,584	\$3,342	\$2,439	\$2,356	\$1,846
HVAC/Water Heating	\$22	\$97	\$344	\$1,870	\$1,746	\$2,051
Residential New Construction	\$1,374	\$448	\$562	\$710	\$427	\$480
Residential Behavior	\$ -	\$ -	\$ -	\$165	\$32	\$138
<b>Subtotal: Residential</b>	<b>\$4,314</b>	<b>\$8,041</b>	<b>\$8,761</b>	<b>\$9,440</b>	<b>\$9,868</b>	<b>\$9,502</b>
<b>OTHER - BUSINESS &amp; COMMUNITY</b>						
Energy Conscious Blueprint	\$1,177	\$1,885	\$1,151	\$2,120	\$2,297	\$1,902
Energy Opportunities	\$1,536	\$814	\$1,150	\$854	\$1,286	\$716
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$90	\$385	\$78	\$312	\$602	\$1,012
Small Business	\$211	\$199	\$192	\$195	\$138	\$212
<b>Subtotal: C&amp;I</b>	<b>\$3,014</b>	<b>\$3,283</b>	<b>\$2,571</b>	<b>\$3,481</b>	<b>\$4,323</b>	<b>\$3,841</b>
<b>DEMAND MANAGEMENT</b>						
Demand Management - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Management – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Educate the Public	\$ -	\$ -	\$ -	\$200	\$186	\$68
Customer Engagement	\$ -	\$ -	\$ -	\$94	\$34	\$33
Educate the Students	\$ -	\$ -	\$ -	\$33	\$68	\$26
Educate the Workforce	\$ -	\$ -	\$ -	\$30	\$14	\$12
SmartLiving Center/Science Center	\$ -	\$167	\$100	\$ -	\$ -	\$ -
Eesmarts/K-12 Education	\$ -	\$26	\$70	\$ -	\$ -	\$ -
Clean Energy Communities	\$6	\$41	\$57	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$6</b>	<b>\$234</b>	<b>\$227</b>	<b>\$357</b>	<b>\$302</b>	<b>\$139</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Financing Support – Residential	\$56	\$56	\$77	\$59	\$67	\$ -
Financing Support - C&I	\$ -	\$ -	\$ -	-\$7	\$23	\$ -
RD&D	\$79	\$ -	\$ -	\$7	\$16	\$55
Institute for Sustainable Energy	\$ -	\$37	\$41	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$6	\$3	\$ -	\$ -	\$ -
C&I Loan Program	\$18	\$ -	\$9	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$153</b>	<b>\$99</b>	<b>\$130</b>	<b>\$59</b>	<b>\$106</b>	<b>\$55</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$90	\$130	\$237	\$130	\$172	\$143
Marketing Plan	\$ -	\$97	\$85	\$109	\$73	\$31
Planning	\$145	\$99	\$101	\$141	\$169	\$108
EM&V	\$36	\$132	\$231	\$200	\$200	\$218
Evaluation Administrator	\$ -	\$26	\$26	\$20	\$20	\$19
Information Technology	\$49	\$101	\$141	\$109	\$107	\$150
EEB Consultants	\$43	\$24	\$63	\$43	\$43	\$32
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$10	\$4
PMI	\$601	\$598	\$733	\$687	\$896	\$877
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$964</b>	<b>\$1,208</b>	<b>\$1,617</b>	<b>\$1,439</b>	<b>\$1,690</b>	<b>\$1,582</b>
<b>TOTAL</b>	<b>\$8,450</b>	<b>\$12,865</b>	<b>\$13,306</b>	<b>\$14,776</b>	<b>\$16,289</b>	<b>\$15,120</b>



**Table D – Connecticut Natural Gas CT Historical and Projected Expenditures (2013-2024)(continued)**

**Table D: CNG Historical and Projected \$ (2013-2024)  
Expenditures \$ (000)**

	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget	2024 Budget
<b>RESIDENTIAL</b>						
HES-Income Eligible Weatherization	\$345	\$96	\$4,289	\$3,937	\$4,021	\$4,045
Home Energy Solutions	\$1,653	\$2,498	\$2,843	\$2,911	\$2,975	\$2,992
HVAC/Water Heating	\$2,572	\$2,683	\$2,321	\$1,825	\$1,866	\$1,874
Residential New Construction	\$4,516	\$470	\$739	\$678	\$693	\$697
Residential Behavior	\$30	\$151	\$162	\$149	\$152	\$153
<b>Subtotal: Residential</b>	<b>\$9,116</b>	<b>\$5,897</b>	<b>\$10,353</b>	<b>\$9,501</b>	<b>\$9,707</b>	<b>\$9,763</b>
<b>DEMAND MANAGEMENT</b>						
Energy Conscious Blueprint	\$1,418	\$4,146	\$2,201	\$2,018	\$2,062	\$2,074
Energy Opportunities	\$1,245	\$813	\$1,251	\$1,148	\$1,173	\$1,179
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$403	\$419	\$725	\$665	\$680	\$684
Small Business	\$253	\$119	\$339	\$311	\$318	\$320
<b>Subtotal: C&amp;I</b>	<b>\$3,319</b>	<b>\$5,496</b>	<b>\$4,516</b>	<b>\$4,142</b>	<b>\$4,232</b>	<b>\$4,257</b>
<b>DEMAND MANAGEMENT</b>						
Demand Management - Residential	\$ -	\$ -	\$ -	\$51	\$108	\$114
Demand Management – C&I	\$ -	\$ -	\$ -	\$140	\$145	\$149
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$192</b>	<b>\$253</b>	<b>\$262</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Educate the Public	\$70	\$31	\$45	\$77	\$77	\$77
Customer Engagement	\$ -	\$25	\$67	\$83	\$83	\$83
Educate the Students	\$30	\$65	\$76	\$80	\$80	\$80
Educate the Workforce	\$16	\$ -	\$100	\$50	\$50	\$50
SmartLiving Center/Science Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eesmarts/K-12 Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$117</b>	<b>\$121</b>	<b>\$289</b>	<b>\$289</b>	<b>\$289</b>	<b>\$289</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Financing Support – Residential	\$66	\$52	\$86	\$86	\$86	\$86
Financing Support - C&I	\$ -	\$ -	\$20	\$20	\$20	\$20
RD&D	\$37	\$20	\$50	\$50	\$50	\$50
Institute for Sustainable Energy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$103</b>	<b>\$73</b>	<b>\$156</b>	<b>\$156</b>	<b>\$156</b>	<b>\$156</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$120	\$81	\$159	\$159	\$159	\$159
Marketing Plan	\$18	\$11	\$40	\$40	\$40	\$40
Planning	\$114	\$114	\$102	\$102	\$102	\$102
EM&V	\$218	\$198	\$200	\$300	\$300	\$300
Evaluation Administrator	\$19	\$22	\$22	\$30	\$30	\$30
Information Technology	\$148	\$98	\$141	\$575	\$275	\$251
EEB Consultants	\$31	\$43	\$43	\$53	\$53	\$53
Audits - Financial and Operational	\$10	\$2	\$10	\$10	\$10	\$10
PMI	\$854	\$728	\$718	\$773	\$776	\$779
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$1,532</b>	<b>\$1,297</b>	<b>\$1,436</b>	<b>\$2,042</b>	<b>\$1,745</b>	<b>\$1,724</b>
<b>TOTAL</b>	<b>\$14,185</b>	<b>\$12,885</b>	<b>\$16,751</b>	<b>\$16,322</b>	<b>\$16,382</b>	<b>\$16,450</b>

Table D1 – Connecticut Natural Gas Annual Savings CCF (2013-2024)

**Table D1**  
**CNG – Annual Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES Income Eligible	95	423	451	594	473	442	369	145	321	229	230	226
HES	403	607	486	278	243	216	195	187	202	183	188	189
HVAC/Water Heating	1	16	44	257	215	269	244	232	203	153	157	158
Residential New Construction	74	90	49	96	97	95	79	77	180	123	125	127
Residential Behavior	NA	NA	NA	89	62	-	96	-	105	142	142	136
<b>Subtotal: Residential EE Portfolio</b>	<b>573</b>	<b>1,136</b>	<b>1,030</b>	<b>1,314</b>	<b>1,090</b>	<b>1,022</b>	<b>983</b>	<b>641</b>	<b>1,012</b>	<b>830</b>	<b>842</b>	<b>836</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	399	274	256	403	528	193	213	546	231	199	200	197
Energy Opportunities	403	264	203	222	307	427	344	112	146	182	184	182
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	91	245	133	134	195	392	268	161	314	252	254	251
Small Business	33	14	40	16	48	24	51	7	44	42	43	42
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>926</b>	<b>797</b>	<b>632</b>	<b>775</b>	<b>1,078</b>	<b>1,036</b>	<b>876</b>	<b>826</b>	<b>734</b>	<b>675</b>	<b>681</b>	<b>672</b>
<b>TOTAL</b>	<b>1,500</b>	<b>1,934</b>	<b>1,662</b>	<b>2,089</b>	<b>2,168</b>	<b>2,058</b>	<b>1,859</b>	<b>1,467</b>	<b>1,746</b>	<b>1,505</b>	<b>1,523</b>	<b>1,508</b>

Table D2 – Connecticut Natural Gas Lifetime Savings CCF (2013-2024)

**Table D2**  
**CNG – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
HES-Income Eligible (Weatherization)	1,612	8,285	8,660	12,047	9,848	9,235
HES	7,461	12,033	9,870	5,652	4,944	4,367
HVAC/Water Heating	25	285	809	5,114	4,264	5,369
Residential New Construction	1,675	2,078	1,116	2,384	2,414	2,261
Residential Behavior	NA	NA	NA	232	162	-
<b>Subtotal: Residential EE Portfolio</b>	<b>10,773</b>	<b>22,681</b>	<b>20,455</b>	<b>25,430</b>	<b>21,632</b>	<b>21,232</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	6,670	4,233	4,136	6,233	8,415	2,926
Energy Opportunities	4,517	2,793	2,476	2,331	3,541	4,411
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	466	1,700	889	729	1,041	2,037
Small Business	442	217	485	181	592	277
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>12,095</b>	<b>8,943</b>	<b>7,986</b>	<b>9,474</b>	<b>13,589</b>	<b>9,651</b>
<b>TOTAL</b>	<b>22,868</b>	<b>31,624</b>	<b>28,441</b>	<b>34,904</b>	<b>35,221</b>	<b>30,883</b>

**Table D2 – Connecticut Natural Gas Lifetime Savings CCF (2013-2024)(continued)**

**Table D2**  
**CNG – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
HES-Income Eligible (Weatherization)	7,965	3,065	6,348	4,778	4,805	4,745
HES	3,777	3,856	4,327	3,607	3,706	3,733
HVAC/Water Heating	4,862	4,515	4,046	3,051	3,130	3,147
Residential New Construction	2,540	1,933	4,511	3,069	3,134	3,167
Residential Behavior	202	-	211	284	284	273
<b>Subtotal: Residential EE Portfolio</b>	<b>19,346</b>	<b>13,369</b>	<b>19,442</b>	<b>14,788</b>	<b>15,059</b>	<b>15,065</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	3,006	8,654	3,556	3,604	3,625	3,579
Energy Opportunities	3,508	1,136	2,163	1,709	1,726	1,705
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	1,414	851	1,720	1,501	1,515	1,497
Small Business	604	74	499	491	499	491
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>8,532</b>	<b>10,715</b>	<b>7,937</b>	<b>7,305</b>	<b>7,365</b>	<b>7,272</b>
<b>TOTAL</b>	<b>27,878</b>	<b>24,084</b>	<b>27,379</b>	<b>22,094</b>	<b>22,424</b>	<b>22,337</b>

Table D3 – Connecticut Natural Gas Cost per Annual Savings CCF (2013-2024)

Table D3

## CNG - Cost per Annual Savings (CCF) (2013-2024)

## Natural Gas Conservation Plan Actual/Budget

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES-Income Eligible - Weatherization	\$9.464	\$6.884	\$10.007	\$7.165	\$11.220	\$11.283	\$0.936	\$0.664	\$13.367	\$9.464	\$6.884	\$10.007
Home Energy Solutions	\$4.998	\$7.552	\$6.877	\$8.773	\$9.695	\$8.547	\$8.475	\$13.356	\$14.048	\$4.998	\$7.552	\$6.877
HVAC/Water Heating	\$17.200	\$6.013	\$7.818	\$7.276	\$8.121	\$7.625	\$10.541	\$11.565	\$11.438	\$17.200	\$6.013	\$7.818
Residential New Construction	\$18.663	\$4.978	\$11.469	\$7.396	\$4.402	\$5.050	\$57.164	\$6.110	\$4.097	\$18.663	\$4.978	\$11.469
Residential Behavior	\$ -	\$ -	\$ -	\$1.854	\$0.516	NA	\$0.310	#DIV/0!	\$1.541	\$ -	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$7.523</b>	<b>\$7.077</b>	<b>\$8.506</b>	<b>\$7.184</b>	<b>\$9.053</b>	<b>\$9.297</b>	<b>\$9.273</b>	<b>\$9.199</b>	<b>\$10.231</b>	<b>\$7.523</b>	<b>\$7.077</b>	<b>\$8.506</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$2.950	\$6.880	\$4.496	\$5.261	\$4.350	\$9.853	\$6.659	\$7.593	\$9.517	\$2.950	\$6.880	\$4.496
Energy Opportunities	\$3.811	\$3.083	\$5.665	\$3.847	\$4.189	\$1.677	\$3.619	\$7.261	\$8.584	\$3.811	\$3.083	\$5.665
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$0.989	\$1.571	\$0.586	\$2.328	\$3.087	\$2.581	\$1.504	\$2.599	\$2.311	\$0.989	\$1.571	\$0.586
Small Business	\$6.337	\$13.808	\$4.800	\$12.188	\$2.875	\$8.831	\$4.954	\$16.959	\$7.772	\$6.337	\$13.808	\$4.800
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$3.254</b>	<b>\$4.117</b>	<b>\$4.068</b>	<b>\$4.492</b>	<b>\$4.010</b>	<b>\$3.708</b>	<b>\$3.789</b>	<b>\$6.654</b>	<b>\$6.149</b>	<b>\$3.254</b>	<b>\$4.117</b>	<b>\$4.068</b>

Table D4 – Connecticut Natural Gas Cost per Lifetime Savings CCF (2013-2024)

**Table D4**  
**CNG - Cost per Lifetime Savings (CCF) (2013-2024)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES-Income Eligible - Weatherization	\$0.561	\$0.351	\$0.521	\$0.353	\$0.539	\$0.540	\$0.043	\$0.031	\$0.676	\$0.561	\$0.351	\$0.521
Home Energy Solutions	\$0.270	\$0.381	\$0.339	\$0.432	\$0.477	\$0.423	\$0.438	\$0.648	\$0.657	\$0.270	\$0.381	\$0.339
HVAC/Water Heating	\$0.860	\$0.341	\$0.425	\$0.366	\$0.409	\$0.382	\$0.529	\$0.594	\$0.574	\$0.860	\$0.341	\$0.425
Residential New Construction	\$0.821	\$0.216	\$0.504	\$0.298	\$0.177	\$0.212	\$1.778	\$0.243	\$0.164	\$0.821	\$0.216	\$0.504
Residential Behavior	\$ -	\$ -	\$ -	\$0.711	\$0.198	\$ -	\$0.147	\$ -	\$0.771	\$ -	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.400</b>	<b>\$0.355</b>	<b>\$0.428</b>	<b>\$0.371</b>	<b>\$0.456</b>	<b>\$0.448</b>	<b>\$0.471</b>	<b>\$0.441</b>	<b>\$0.533</b>	<b>\$0.400</b>	<b>\$0.355</b>	<b>\$0.428</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$0.176	\$0.445	\$0.278	\$0.340	\$0.273	\$0.650	\$0.472	\$0.479	\$0.619	\$0.176	\$0.445	\$0.278
Energy Opportunities	\$0.340	\$0.291	\$0.464	\$0.366	\$0.363	\$0.162	\$0.355	\$0.716	\$0.579	\$0.340	\$0.291	\$0.464
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$0.193	\$0.226	\$0.088	\$0.428	\$0.578	\$0.497	\$0.285	\$0.492	\$0.422	\$0.193	\$0.226	\$0.088
Small Business	\$0.476	\$0.918	\$0.396	\$1.077	\$0.233	\$0.765	\$0.418	\$1.604	\$0.679	\$0.476	\$0.918	\$0.396
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.249</b>	<b>\$0.367</b>	<b>\$0.322</b>	<b>\$0.367</b>	<b>\$0.318</b>	<b>\$0.398</b>	<b>\$0.389</b>	<b>\$0.513</b>	<b>\$0.569</b>	<b>\$0.249</b>	<b>\$0.367</b>	<b>\$0.322</b>

Table D5 – Connecticut Natural Gas Units (2013-2024)

**Table D5**  
**CNG – Units**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES Income Eligible – Weatherization	800	3,766	4,036	5,720	1,584	11,563	5,785	1,491	2,589	1,354	1,519	1,674
Home Energy Solutions	4,543	4,872	3,957	2,937	2,251	2,724	2,427	2,035	1,662	1,863	1,914	1,928
HVAC/Water Heating	26	288	736	2,922	2,452	3,272	3,938	4,861	3,529	2,659	2,728	2,743
Residential New Construction	345	163	181	275	355	1,005	408	310	507	664	680	685
Residential Behavior	-	-	-	26,243	26,455	-	14,432	-	15,800	15,874	15,080	14,326
<b>Subtotal: Residential EE Portfolio</b>	<b>5,714</b>	<b>9,089</b>	<b>8,910</b>	<b>38,097</b>	<b>33,097</b>	<b>18,564</b>	<b>26,990</b>	<b>8,697</b>	<b>24,087</b>	<b>22,414</b>	<b>21,922</b>	<b>21,357</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	125	97	54	125	163	118	185	262	46	252	259	261
Energy Opportunities	24	31	22	38	32	49	39	23	32	85	88	88
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	8	19	26	12	26	36	47	22	18	15	15	15
Small Business	20	24	31	26	28	22	54	24	60	52	53	53
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>177</b>	<b>171</b>	<b>133</b>	<b>201</b>	<b>249</b>	<b>225</b>	<b>325</b>	<b>331</b>	<b>156</b>	<b>404</b>	<b>415</b>	<b>418</b>
<b>TOTAL</b>	<b>5,891</b>	<b>9,260</b>	<b>9,043</b>	<b>38,298</b>	<b>33,346</b>	<b>18,789</b>	<b>27,315</b>	<b>9,028</b>	<b>24,243</b>	<b>22,818</b>	<b>22,337</b>	<b>21,775</b>

Connecticut Natural Gas PMI (2022)

**CONNECTICUT NATURAL GAS COMPANY**

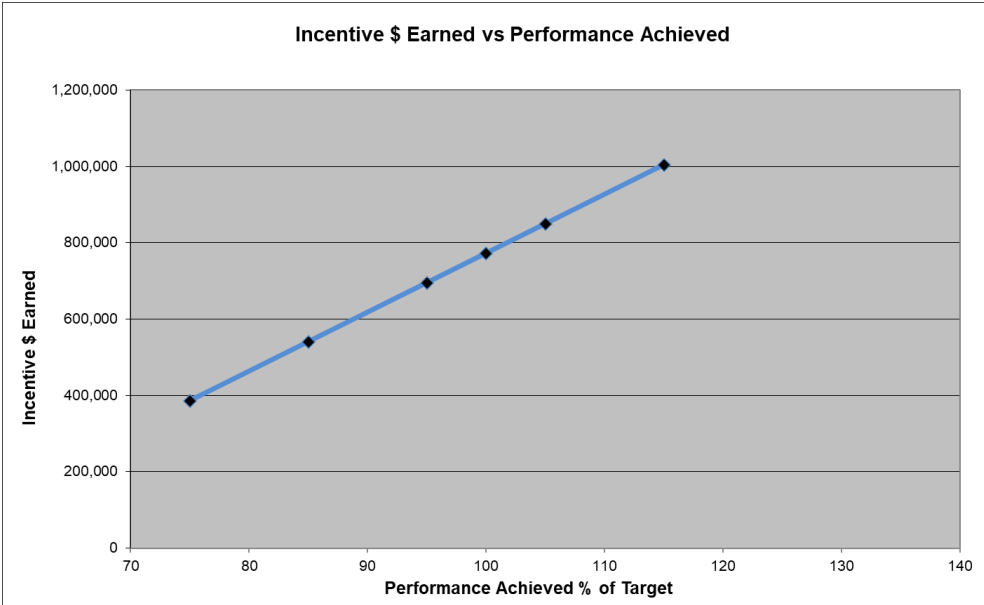
**2022 Management Incentive Performance Indicators and Incentive Matrix**

CNG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected CNG Performance Incentive is **\$772,836** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$15,456,712** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
<b>Minimum</b>		
75	2.5%	\$386,418
85	3.5%	\$540,985
95	4.5%	\$695,552
<b>100</b>	<b>5.0%</b>	<b>\$772,836</b>
105	5.5%	\$850,119
115	6.5%	\$1,004,686
<b>Maximum Budget</b>	<b>\$15,456,712</b>	

**Goals will be prorated based on actual over/under spend of budget.**





**Connecticut Natural Gas PMI (2022) (continued)**

SECTOR		Performance Indicators				Incentive Metrics			
Program						Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF		% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$9,500,811</b>					Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$165,696</b>
		New Construction	3,068,520	20.75%					
		Home Energy Solutions	3,606,930	24.39%					
		HVAC	3,050,635	20.63%					
		HES - Income Eligible	4,778,221	32.31%					
		Behavior	283,850	1.92%					
		<b>Total</b>	<b>14,788,155</b>						
		Savings Rate	<b>\$0.7953</b>	/ccf					
		Savings	<b>\$11,760,491</b>						
		(1) percent of target goal							
Net Residential Gas Benefit:							<b>\$2,259,680</b>	0.2144	<b>\$165,696</b>
Home Energy Solutions	<b>\$2,911,381</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$34,778</b>	
HES-Income Eligible	<b>\$3,937,478</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$34,778</b>	

**Connecticut Natural Gas PMI (2022) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$4,142,127</b>	Energy Conscious Blueprint	3,604,149	49.33%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$143,438</b>
		Energy Opportunities	1,708,719	23.39%				
		Business and Energy Sustainability	1,501,247	20.55%				
		Small Business	491,351	6.73%				
		<b>Total</b>	<b>7,305,467</b>					
		Savings Rate	<b>\$0.7273</b>	/ccf				
		Savings	<b>\$5,313,133</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:					<b>\$1,171,006</b>	0.1856	<b>\$143,438</b>	
Small Business	<b>\$310,869</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$38,642</b>	
Energy Conscious Blueprint / Energy Opportunities	<b>\$3,166,062</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$38,642</b>	
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.		Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$7,728</b>	
<b>Total Incentives</b>							<b>1.0000</b>	<b>\$772,836</b>

Connecticut Natural Gas PMI (2023)

**CONNECTICUT NATURAL GAS COMPANY**

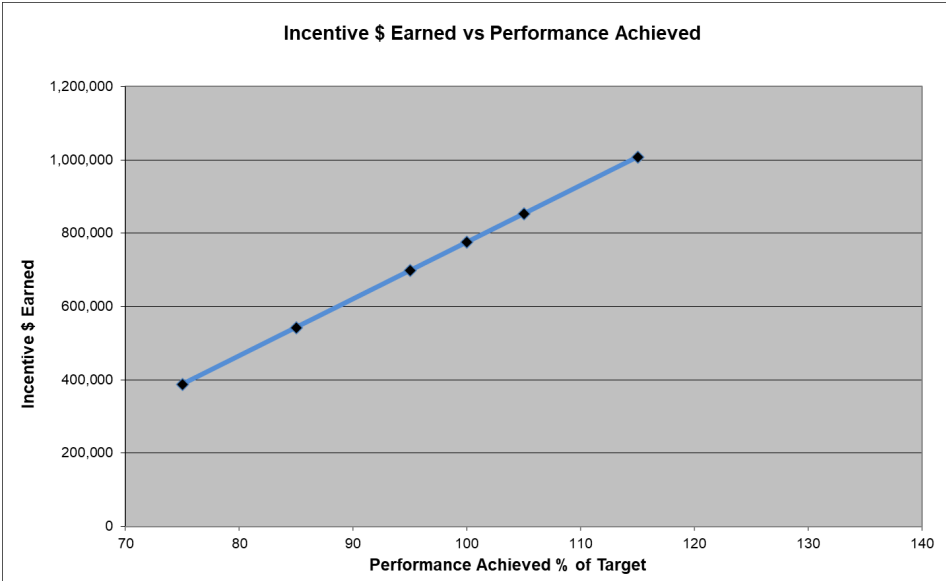
**2023 Management Incentive Performance Indicators and Incentive Matrix**

CNG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected CNG Performance Incentive is **\$775,647** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$15,512,950** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$387,824
85	3.5%	\$542,953
95	4.5%	\$698,083
<b>100</b>	<b>5.0%</b>	<b>\$775,647</b>
105	5.5%	\$853,212
115	6.5%	\$1,008,342
<b>Maximum Budget</b>	<b>\$15,512,950</b>	

Goals will be prorated based on actual over/under spend of budget.



**Connecticut Natural Gas PMI (2023) (continued)**

SECTOR		Performance Indicators				Incentive Metrics			
Program						Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF		% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$9,706,075</b>					Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$166,299</b>
		New Construction	3,134,040		20.81%				
		Home Energy Solutions	3,705,903		24.61%				
		HVAC	3,130,116		20.79%				
		HES - Income Eligible	4,804,774		31.91%				
		Behavior	284,307		1.89%				
		<b>Total</b>	<b>15,059,140</b>						
		Savings Rate	<b>\$0.8007</b>	/ccf					
		Savings	<b>\$12,058,362</b>						
		(1) percent of target goal							
Net Residential Gas Benefit:						<b>\$2,352,287</b>	0.2144	<b>\$166,299</b>	
Home Energy Solutions	<b>\$2,974,775</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$34,904</b>	
HES-Income Eligible	<b>4,020,763</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$34,904</b>	

**Connecticut Natural Gas PMI (2023) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$4,232,258</b>	Energy Conscious Blueprint	3,624,697	49.22%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs <b>\$5,395,677</b>	0.1856	<b>\$143,960</b>
		Energy Opportunities	1,725,528	23.43%				
		Business and Energy Sustainability	1,515,211	20.57%				
		Small Business	499,314	6.78%				
		<b>Total</b>	<b>7,364,750</b>					
		Savings Rate	<b>\$0.7326</b> /ccf					
		Savings	<b>\$5,395,677</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:					<b>\$1,163,419</b>	0.1856	<b>\$143,960</b>	
Small Business	<b>\$317,638</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$38,782</b>
Energy Conscious Blueprint / Energy Opportunities	<b>\$3,234,940</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$38,782</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$7,756</b>
<b>Total Incentives</b>							<b>1.0000</b>	<b>\$775,647</b>

Connecticut Natural Gas PMI (2024)

**CONNECTICUT NATURAL GAS COMPANY**

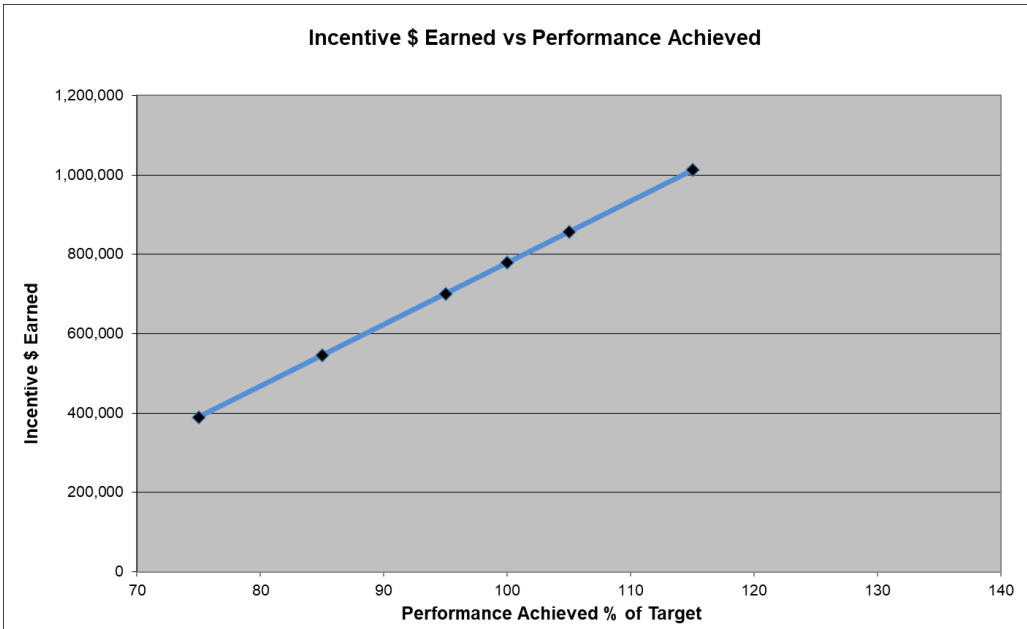
**2024 Management Incentive Performance Indicators and Incentive Matrix**

CNG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected CNG Performance Incentive is **\$778,909** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$15,578,181** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
<b>Minimum</b>		
75	2.5%	\$389,455
85	3.5%	\$545,236
95	4.5%	\$701,018
<b>100</b>	<b>5.0%</b>	<b>\$778,909</b>
105	5.5%	\$856,800
115	6.5%	\$1,012,582
<b>Maximum Budget</b>	<b>\$15,578,181</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Connecticut Natural Gas PMI (2024) (continued)**

SECTOR		Performance Indicators				Incentive Metrics			
Program						Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF		% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$9,761,173</b>					Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$166,998</b>
		New Construction	3,166,995	21.02%					
		Home Energy Solutions	3,733,369	24.78%					
		HVAC	3,147,215	20.89%					
		HES - Income Eligible	4,744,551	31.49%					
		Behavior	272,876	1.81%					
		<b>Total</b>	<b>15,065,007</b>						
		Savings Rate	<b>\$0.8020</b>	/ccf					
		Savings	<b>\$12,082,505</b>						
		(1) percent of target goal							
Net Residential Gas Benefit:						<b>\$2,321,333</b>	0.2144	<b>\$166,998</b>	
Home Energy Solutions	<b>\$2,992,367</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$35,051</b>	
HES-Income Eligible	<b>4,044,542</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	<b>\$35,051</b>	

**Connecticut Natural Gas PMI (2024) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$4,256,651</b>	Energy Conscious Blueprint	3,578,620	49.21%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$144,566</b>
		Energy Opportunities	1,705,415	23.45%				
		Business and Energy Sustainability	1,497,309	20.59%				
		Small Business	490,773	6.75%				
		<b>Total</b>	<b>7,272,116</b>					
		Savings Rate	<b>\$0.7375</b>	/ccf				
		Savings	<b>\$5,363,079</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:						<b>\$1,106,427</b>	0.1856	<b>\$144,566</b>
Small Business	<b>\$319,516</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$38,945</b>
Energy Conscious Blueprint / Energy Opportunities	<b>\$3,253,436</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$38,945</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$7,789</b>
<b>Total Incentives</b>							<b>1.0000</b>	<b>\$778,909</b>



**E.8 SOUTHERN CONNECTICUT GAS BUDGET AND SAVINGS TABLES**

Table A – Southern Connecticut Gas (2020-2024)

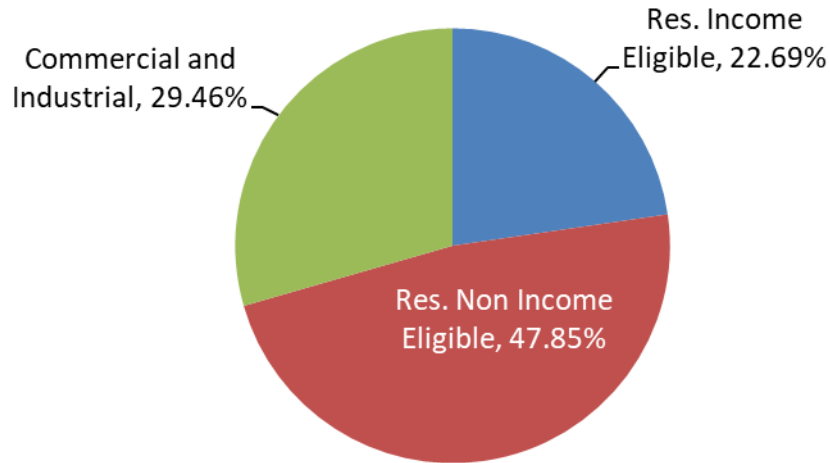
**Table A: Southern Connecticut Gas  
2020-2024 Natural Gas Conservation Budget**

Southern CT Gas EE Budget	2020 SCG Actual Results 12/31/2020	2021 SCG Proposed Budget 3/1/2021	2022 SCG Proposed Budget 11/1/2021	2023 SCG Proposed Budget 11/1/2021	2024 SCG Proposed Budget 11/1/2021
<b>RESIDENTIAL</b>					
Residential New Construction	\$ 463,333	\$ 752,505	\$ 894,921	\$ 927,086	\$ 938,626
Home Energy Solutions	\$ 2,556,209	\$ 2,438,604	\$ 1,596,867	\$ 1,654,261	\$ 1,674,853
HVAC & Domestic Water Heating	\$ 3,256,694	\$ 3,269,078	\$ 2,918,842	\$ 3,021,171	\$ 3,057,929
HES-Income Eligible	\$ 1,680,548	\$ 2,809,339	\$ 2,852,125	\$ 2,954,634	\$ 2,991,413
Residential Behavior	\$ 151,126	\$ 166,138	\$ 146,052	\$ 152,140	\$ 154,034
<b>Subtotal: Residential EE Portfolio</b>	<b>\$ 8,107,910</b>	<b>\$ 9,435,663</b>	<b>\$ 8,408,808</b>	<b>\$ 8,709,292</b>	<b>\$ 8,816,855</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>					
Energy Conscious Blueprint	\$ 2,156,813	\$ 1,811,859	\$ 1,608,506	\$ 1,675,551	\$ 1,696,408
Energy Opportunities	\$ 2,032,986	\$ 1,188,421	\$ 1,059,521	\$ 1,099,050	\$ 1,112,731
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$ 228,959	\$ 531,797	\$ 472,119	\$ 491,797	\$ 497,919
Small Business	\$ 237,722	\$ 261,290	\$ 231,969	\$ 241,638	\$ 244,646
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$ 4,656,480</b>	<b>\$ 3,793,368</b>	<b>\$ 3,372,115</b>	<b>\$ 3,508,036</b>	<b>\$ 3,551,704</b>
<b>DEMAND MANAGEMENT</b>					
Demand Management - Residential	\$ -	\$ -	\$ 155,468	\$ 163,650	\$ 171,833
Demand Management - C&I	\$ -	\$ -	\$ 140,292	\$ 157,376	\$ 162,097
<b>Subtotal Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 295,760</b>	<b>\$ 321,026</b>	<b>\$ 333,930</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>					
Energy Education	\$ 31,404	\$ 45,164	\$ 76,667	\$ 76,667	\$ 76,667
Workforce Development	\$ 25,847	\$ 67,473	\$ 82,667	\$ 82,667	\$ 82,667
Community Outreach	\$ 64,542	\$ 76,089	\$ 80,000	\$ 80,000	\$ 80,000
Customer Engagement Initiative	\$ -	\$ 100,000	\$ 50,000	\$ 50,000	\$ 50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$ 121,793</b>	<b>\$ 288,726</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>	<b>\$ 289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>					
Financing Support – Residential	\$ 61,749	\$ 86,292	\$ 86,292	\$ 86,292	\$ 86,292
Financing Support - C&I	\$ -	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Research, Development and Demonstration	\$ 20,163	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
<b>Subtotal: Programs/Requirements</b>	<b>\$ 81,912</b>	<b>\$ 211,292</b>	<b>\$ 211,292</b>	<b>\$ 211,292</b>	<b>\$ 211,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>					
Administration	\$ 80,628	\$ 159,219	\$ 159,219	\$ 159,219	\$ 159,219
Marketing Plan	\$ 9,312	\$ 40,100	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 114,343	\$ 102,465	\$ 102,465	\$ 102,465	\$ 102,465
Evaluation Measurement and Verification	\$ 200,835	\$ 200,000	\$ 300,000	\$ 300,000	\$ 300,000
Evaluation Administrator	\$ 21,865	\$ 21,931	\$ 29,607	\$ 29,607	\$ 29,607
Information Technology	\$ 78,797	\$ 140,590	\$ 540,590	\$ 263,590	\$ 241,590
Energy Efficiency Board Consultants	\$ 43,333	\$ 43,333	\$ 53,333	\$ 53,333	\$ 53,333
Audits - Financial and Operational	\$ 1,597	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
Performance Management Incentive	\$ 629,890	\$ 646,714	\$ 685,984	\$ 695,218	\$ 702,324
<b>Subtotal: Other - Administrative &amp; Planning</b>	<b>\$ 1,180,601</b>	<b>\$ 1,364,352</b>	<b>\$ 1,921,298</b>	<b>\$ 1,653,531</b>	<b>\$ 1,638,638</b>
<b>TOTAL</b>	<b>\$ 14,148,696</b>	<b>\$ 15,093,400</b>	<b>\$ 14,498,605</b>	<b>\$ 14,692,511</b>	<b>\$ 14,841,752</b>

Table A Pie Chart – Southern Connecticut Gas (2022)

Southern Connecticut Gas  
2022 Budget Analysis

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$2,852,125	19.67%	22.69%
Res. Non Income-Eligible	\$6,013,189	41.47%	47.85%
<b>Residential Subtotal</b>	<b>\$8,865,314</b>	<b>61.15%</b>	<b>70.54%</b>
Commercial and Industrial	\$3,702,093	25.53%	29.46%
<b>C&amp;I Subtotal</b>	<b>\$3,702,093</b>	<b>25.53%</b>	<b>29.46%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$12,567,408</b>	<b>86.68%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,931,198	13.32%	
<b>Other Expenditures Subtotal</b>	<b>\$1,931,198</b>	<b>13.32%</b>	
<b>TOTAL</b>	<b>\$14,498,605</b>	<b>100.00%</b>	

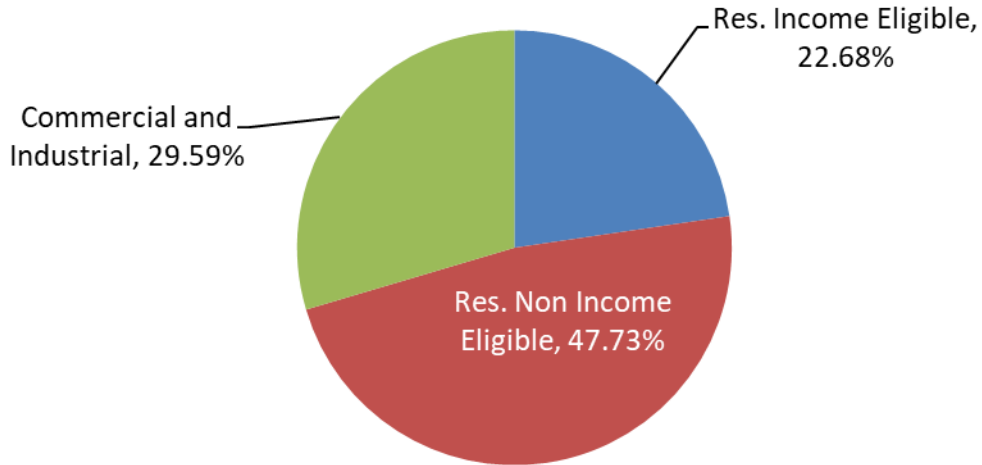
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Table A Pie Chart – Southern Connecticut Gas (2023)

Southern Connecticut Gas  
2023 Budget Analysis

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$2,954,634	20.11%	22.68%
Res. Non Income-Eligible	\$6,219,346	42.33%	47.73%
<b>Residential Subtotal</b>	<b>\$9,173,980</b>	<b>62.44%</b>	<b>70.41%</b>
Commercial and Industrial	\$3,855,099	26.24%	29.59%
<b>C&amp;I Subtotal</b>	<b>\$3,855,099</b>	<b>26.24%</b>	<b>29.59%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$13,029,079</b>	<b>88.68%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,663,431	11.32%	
<b>Other Expenditures Subtotal</b>	<b>\$1,663,431</b>	<b>11.32%</b>	
<b>TOTAL</b>	<b>\$14,692,511</b>	<b>100.00%</b>	

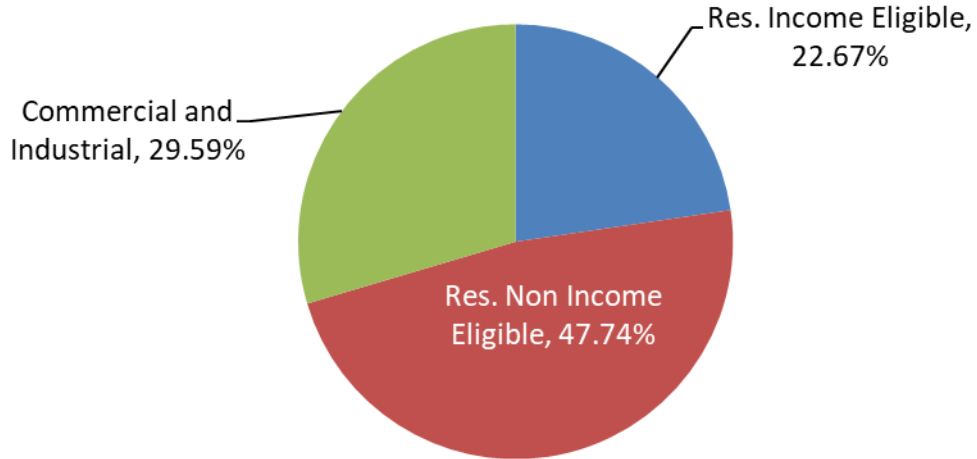
Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

Table A Pie Chart – Southern Connecticut Gas (2024)

Southern Connecticut Gas  
2024 Budget Analysis

**Budget By Customer Class**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$2,991,413	20.16%	22.67%
Res. Non Income-Eligible	\$6,298,313	42.44%	47.74%
<b>Residential Subtotal</b>	<b>\$9,289,726</b>	<b>62.59%</b>	<b>70.41%</b>
Commercial and Industrial	\$3,903,488	26.30%	29.59%
<b>C&amp;I Subtotal</b>	<b>\$3,903,488</b>	<b>26.30%</b>	<b>29.59%</b>
<b>Residential and C&amp;I Subtotal</b>	<b>\$13,193,214</b>	<b>88.89%</b>	<b>100.00%</b>
<b>Other Expenditures</b>			
Other Expenditures	\$1,648,538	11.11%	
<b>Other Expenditures Subtotal</b>	<b>\$1,648,538</b>	<b>11.11%</b>	
<b>TOTAL</b>	<b>\$14,841,752</b>	<b>100.00%</b>	

Totals may vary due to rounding.

\*Please see attached Budget Allocation Table.

## Southern Connecticut Gas Table A Budget Allocation (2020-2024)

Table A Pie Sector Allocation			
	Residential	C&I	Other
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>			
Energy Education	80%	20%	0%
Workforce Development	50%	50%	0%
Community Outreach	50%	50%	0%
Customer Engagement Initiative	80%	20%	0%
<b>OTHER - PROGRAMS/REQUIREMENTS</b>			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>			
Administration	0%	0%	100%
Marketing Plan	80%	20%	0%
Planning	0%	0%	100%
Evaluation Measurement and Verification	0%	0%	100%
Evaluation Administrator	0%	0%	100%
Information Technology	0%	0%	100%
Energy Efficiency Board Consultants	0%	0%	100%
Audit - Financial and Operational	0%	0%	100%
Performance Management Incentive	0%	0%	100%
Note: Core Residential and C&I programs that produce savings are allocated 100% to the Residential and C&I sectors, respectively. Other programs budgets are allocated to both Residential and C&I sectors based on an estimated percentage of the sector that those dollars will directly benefit by the percentages above.			

Table B – Southern Connecticut Gas (2022)

2022 SCG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$895	\$895	\$1,797	\$3,288	\$3,288	\$6,392	3.67	3.56	828	Homes
Home Energy Solutions	\$1,597	\$1,597	\$1,597	\$1,598	\$1,598	\$3,055	1.00	1.91	849	Homes
HVAC	\$2,919	\$2,919	\$4,655	\$4,166	\$4,166	\$8,008	1.43	1.72	4,468	Units
HES - Income Eligible	\$2,852	\$2,852	\$2,852	\$2,805	\$2,805	\$7,307	0.98	2.56	1,078	Homes
Behavior	\$146	\$146	\$146	\$283	\$283	\$488	1.94	3.34	16,212	Units
<b>Subtotal: Residential</b>	<b>\$8,409</b>	<b>\$8,409</b>	<b>\$11,047</b>	<b>\$12,140</b>	<b>\$12,140</b>	<b>\$25,250</b>	<b>1.44</b>	<b>2.29</b>	<b>-</b>	<b>-</b>
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$1,609	\$1,609	\$3,084	\$2,001	\$2,001	\$4,236	1.24	1.37	699	Projects
Energy Opportunities	\$1,060	\$1,060	\$1,988	\$1,339	\$1,339	\$2,897	1.26	1.46	40	Projects
BES	\$472	\$472	\$776	\$832	\$832	\$1,720	1.76	2.22	14	Projects
Small Business	\$232	\$232	\$447	\$284	\$284	\$580	1.22	1.30	71	Projects
<b>Subtotal: C&amp;I</b>	<b>\$3,372</b>	<b>\$3,372</b>	<b>\$6,294</b>	<b>\$4,456</b>	<b>\$4,456</b>	<b>\$9,432</b>	<b>1.32</b>	<b>1.50</b>	<b>-</b>	<b>-</b>
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,718</b>	<b>\$2,718</b>	<b>\$2,718</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$14,499</b>	<b>\$14,499</b>	<b>\$20,059</b>	<b>\$16,596</b>	<b>\$16,596</b>	<b>\$34,682</b>	<b>1.14</b>	<b>1.73</b>	<b>-</b>	<b>-</b>

**Table B – Southern Connecticut Gas (2022) (continued)**

2022 SCG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	\$ -	\$ -	\$ -	4 -	-	-	-	-	-	-
New Construction	172,567	4,314,180	804	\$5.186	\$0.207	\$1,113	\$45	17,757	443,929	\$50	\$2	1,277	31,928
Home Energy Solutions	97,257	1,990,125	1,002	\$16.419	\$0.802	\$1,593	\$78	10,008	204,784	\$160	\$8	720	14,728
HVAC	261,475	5,213,154	2,381	\$11.163	\$0.560	\$1,226	\$61	26,906	536,434	\$108	\$5	1,935	38,580
HES - Income Eligible	163,293	3,494,102	1,736	\$17.466	\$0.816	\$1,643	\$77	16,803	359,543	\$170	\$8	1,208	25,858
Behavior	127,616	255,233	0	\$1.144	\$0.572			13,132	26,263	\$11	\$6	944	1,889
<b>Subtotal: Residential</b>	<b>822,209</b>	<b>15,266,793</b>	<b>5,923</b>	<b>\$10.227</b>	<b>\$0.551</b>	<b>\$1,420</b>	<b>\$76</b>	<b>84,605</b>	<b>1,570,953</b>	<b>\$99</b>	<b>\$5</b>	<b>6,085</b>	<b>112,983</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	180,473	2,987,944	1,401	\$8.913	\$0.538	\$1,148	\$69	18,571	307,459	\$87	\$5	1,336	22,113
Energy Opportunities	203,590	2,015,193	1,273	\$5.204	\$0.526	\$832	\$84	20,949	207,363	\$51	\$5	1,507	14,914
BES	211,180	1,123,284	1,290	\$2.236	\$0.420	\$366	\$69	21,730	115,586	\$22	\$4	1,563	8,313
Small Business	27,247	391,359	316	\$8.514	\$0.593	\$735	\$51	2,804	40,271	\$83	\$6	202	2,896
<b>Subtotal: C&amp;I</b>	<b>622,490</b>	<b>6,517,779</b>	<b>4,279</b>	<b>\$5.417</b>	<b>\$0.517</b>	<b>\$788</b>	<b>\$75</b>	<b>64,054</b>	<b>670,679</b>	<b>\$53</b>	<b>\$5</b>	<b>4,607</b>	<b>48,235</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>1,444,699</b>	<b>21,784,572</b>	<b>10,202</b>	<b>\$10.036</b>	<b>\$0.666</b>	<b>\$1,421</b>	<b>\$94</b>	<b>148,659</b>	<b>2,241,632</b>	<b>\$98</b>	<b>\$6</b>	<b>10,692</b>	<b>161,219</b>

Table B – Southern Connecticut Gas (2023)

2023 SCG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	-	-	-
New Construction	\$927	\$927	\$1,866	\$3,453	\$3,453	\$6,750	3.73	3.62	862	Homes
Home Energy Solutions	\$1,654	\$1,654	\$1,654	\$1,685	\$1,685	\$3,242	1.02	1.96	889	Homes
HVAC	\$3,021	\$3,021	\$4,823	\$4,347	\$4,347	\$8,415	1.44	1.74	4,637	Units
HES - Income Eligible	\$2,955	\$2,955	\$2,955	\$2,880	\$2,880	\$7,525	0.97	2.55	1,214	Homes
Behavior	\$152	\$152	\$152	\$290	\$290	\$501	1.91	3.29	15,402	Units
<b>Subtotal: Residential</b>	<b>\$8,709</b>	<b>\$8,709</b>	<b>\$11,450</b>	<b>\$12,656</b>	<b>\$12,656</b>	<b>\$26,433</b>	<b>1.45</b>	<b>2.31</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$1,676	\$1,676	\$3,218	\$2,054	\$2,054	\$4,368	1.23	1.36	730	Projects
Energy Opportunities	\$1,099	\$1,099	\$2,067	\$1,373	\$1,373	\$2,997	1.25	1.45	59	Projects
BES	\$492	\$492	\$815	\$857	\$857	\$1,793	1.74	2.20	15	Projects
Small Business	\$242	\$242	\$471	\$297	\$297	\$610	1.23	1.29	74	Projects
<b>Subtotal: C&amp;I</b>	<b>\$3,508</b>	<b>\$3,508</b>	<b>\$6,571</b>	<b>\$4,582</b>	<b>\$4,582</b>	<b>\$9,768</b>	<b>1.31</b>	<b>1.49</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,475</b>	<b>\$2,475</b>	<b>\$2,475</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$14,693</b>	<b>\$14,693</b>	<b>\$20,497</b>	<b>\$17,238</b>	<b>\$17,238</b>	<b>\$36,201</b>	<b>1.17</b>	<b>1.77</b>	<b>-</b>	<b>-</b>



**Table B – Southern Connecticut Gas (2023) (continued)**

2023 SCG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	-	-	\$ -	\$ -	\$ -	\$ -	-	-	\$ -	\$ -	-	-
New Construction	179,634	4,490,850	837	\$5.161	\$0.206	\$1,108	\$44	18,484	462,108	\$50	\$2	1,329	33,235
Home Energy Solutions	101,938	2,085,908	2,337	\$16.228	\$0.793	\$708	\$35	10,489	214,640	\$158	\$8	754	15,437
HVAC	271,404	5,411,104	2,471	\$11.132	\$0.558	\$1,223	\$61	27,927	556,803	\$108	\$5	2,009	40,045
HES - Income Eligible	165,648	3,570,327	1,762	\$17.837	\$0.828	\$1,677	\$78	17,045	367,387	\$173	\$8	1,226	26,423
Behavior	128,724	257,448	-	\$1.182	\$0.591	\$ -	\$ -	13,246	26,491	\$11	\$6	953	1,905
<b>Subtotal: Residential</b>	<b>847,348</b>	<b>15,815,637</b>	<b>7,406</b>	<b>\$10.278</b>	<b>\$0.551</b>	<b>\$1,176</b>	<b>\$63</b>	<b>87,192</b>	<b>1,627,429</b>	<b>\$100</b>	<b>\$5</b>	<b>6,271</b>	<b>117,045</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	183,180	3,032,765	1,421	\$9.147	\$0.552	\$1,179	\$71	18,849	312,072	\$89	\$5	1,356	22,444
Energy Opportunities	208,093	2,059,765	1,301	\$5.282	\$0.534	\$845	\$85	21,413	211,950	\$51	\$5	1,540	15,243
BES	218,322	1,161,273	1,334	\$2.253	\$0.423	\$369	\$69	22,465	119,495	\$22	\$4	1,616	8,594
Small Business	28,238	405,596	327	\$8.557	\$0.596	\$739	\$51	2,906	41,736	\$83	\$6	209	3,002
<b>Subtotal: C&amp;I</b>	<b>637,833</b>	<b>6,659,398</b>	<b>4,383</b>	<b>\$5.500</b>	<b>\$0.527</b>	<b>\$800</b>	<b>\$77</b>	<b>65,633</b>	<b>685,252</b>	<b>\$53</b>	<b>\$5</b>	<b>4,720</b>	<b>49,284</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>1,485,181</b>	<b>22,475,035</b>	<b>11,788</b>	<b>\$9.893</b>	<b>\$0.654</b>	<b>\$1,246</b>	<b>\$82</b>	<b>152,825</b>	<b>2,312,681</b>	<b>\$96</b>	<b>\$6</b>	<b>10,991</b>	<b>166,329</b>

Table B – Southern Connecticut Gas (2024)

2024 SCG	Costs (\$000)			Benefits (\$000)			Benefit Cost Ratios		Quantities	
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
<b>Residential</b>										
Retail Products	\$ -	\$ -	\$ -	-	\$ -	\$ -	-	-	-	-
New Construction	\$939	\$939	\$1,891	\$3,523	\$3,523	\$6,932	3.75	3.67	874	Homes
Home Energy Solutions	\$1,675	\$1,675	\$1,675	\$1,717	\$1,717	\$3,332	1.03	1.99	904	Homes
HVAC	\$3,058	\$3,058	\$4,884	\$4,413	\$4,413	\$8,616	1.44	1.76	4,698	Units
HES - Income Eligible	\$2,991	\$2,991	\$2,991	\$2,861	\$2,861	\$7,528	0.96	2.52	1,331	Homes
Behavior	\$154	\$154	\$154	\$268	\$268	\$472	1.74	3.06	14,632	Units
<b>Subtotal: Residential</b>	<b>\$8,817</b>	<b>\$8,817</b>	<b>\$11,595</b>	<b>\$12,782</b>	<b>\$12,782</b>	<b>\$26,880</b>	<b>1.45</b>	<b>2.32</b>	-	-
<b>Commercial &amp; Industrial</b>										
Energy Conscious Blueprint	\$1,696	\$1,696	\$3,259	\$2,047	\$2,047	\$4,372	1.21	1.34	740	Projects
Energy Opportunities	\$1,113	\$1,113	\$2,095	\$1,369	\$1,369	\$3,016	1.23	1.44	60	Projects
BES	\$498	\$498	\$827	\$851	\$851	\$1,805	1.71	2.18	15	Projects
Small Business	\$245	\$245	\$479	\$297	\$297	\$613	1.21	1.28	75	Projects
<b>Subtotal: C&amp;I</b>	<b>\$3,552</b>	<b>\$3,552</b>	<b>\$6,660</b>	<b>\$4,564</b>	<b>\$4,564</b>	<b>\$9,805</b>	<b>1.29</b>	<b>1.47</b>	-	-
<b>OTHER</b>										
<b>Subtotal: Other</b>	<b>\$2,473</b>	<b>\$2,473</b>	<b>\$2,473</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL</b>	<b>\$14,842</b>	<b>\$14,842</b>	<b>\$20,728</b>	<b>\$17,347</b>	<b>\$17,347</b>	<b>\$36,686</b>	<b>1.17</b>	<b>1.77</b>	<b>-</b>	<b>-</b>

**Table B – Southern Connecticut Gas (2024) (continued)**

2024 SCG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
<b>Residential</b>													
Retail Products	-	--	-	\$ -	\$ -	\$ -	\$ -	-	-	-	-	-	-
New Construction	182,099	4,552,470	848	\$5.154	\$0.206	\$1,107	\$44	18,738	468,449	\$50	\$2	1,348	33,691
Home Energy Solutions	103,618	2,120,274	2,375	\$16.164	\$0.790	\$705	\$34	10,662	218,176	\$157	\$8	767	15,691
HVAC	274,970	5,482,208	2,503	\$11.121	\$0.558	\$1,221	\$61	28,294	564,119	\$108	\$5	2,035	40,572
HES - Income Eligible	163,551	3,553,260	1,739	\$18.290	\$0.842	\$1,720	\$79	16,829	365,630	\$178	\$8	1,210	26,296
Behavior	122,289	244,578	-	\$1.260	\$0.630	\$ -	\$ -	12,584	25,167	\$12	\$6	905	1,810
<b>Subtotal: Residential</b>	<b>846,526</b>	<b>15,952,790</b>	<b>7,466</b>	<b>\$10.415</b>	<b>\$0.553</b>	<b>\$1,181</b>	<b>\$63</b>	<b>87,108</b>	<b>1,641,542</b>	<b>\$101</b>	<b>\$5</b>	<b>6,265</b>	<b>118,060</b>
<b>Commercial &amp; Industrial</b>													
Energy Conscious Blueprint	180,478	2,988,106	1,400	\$9.400	\$0.568	\$1,212	\$73	18,571	307,476	\$91	\$6	1,336	22,114
Energy Opportunities	206,895	2,047,908	1,294	\$5.378	\$0.543	\$860	\$87	21,289	210,730	\$52	\$5	1,531	15,156
BES	218,096	1,160,067	1,332	\$2.283	\$0.429	\$374	\$70	22,442	119,371	\$22	\$4	1,614	8,585
Small Business	27,955	401,526	324	\$8.752	\$0.609	\$755	\$53	2,877	41,317	\$85	\$6	207	2,972
<b>Subtotal: C&amp;I</b>	<b>633,423</b>	<b>6,597,607</b>	<b>4,349</b>	<b>\$5.607</b>	<b>\$0.538</b>	<b>\$817</b>	<b>\$78</b>	<b>65,179</b>	<b>678,894</b>	<b>\$54</b>	<b>\$5</b>	<b>4,688</b>	<b>48,826</b>
<b>OTHER</b>													
<b>Subtotal: Other</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL</b>	<b>1,479,950</b>	<b>22,550,396</b>	<b>11,815</b>	<b>\$10.029</b>	<b>\$0.658</b>	<b>\$1,256</b>	<b>\$82</b>	<b>152,287</b>	<b>2,320,436</b>	<b>\$97</b>	<b>\$6</b>	<b>10,953</b>	<b>166,886</b>

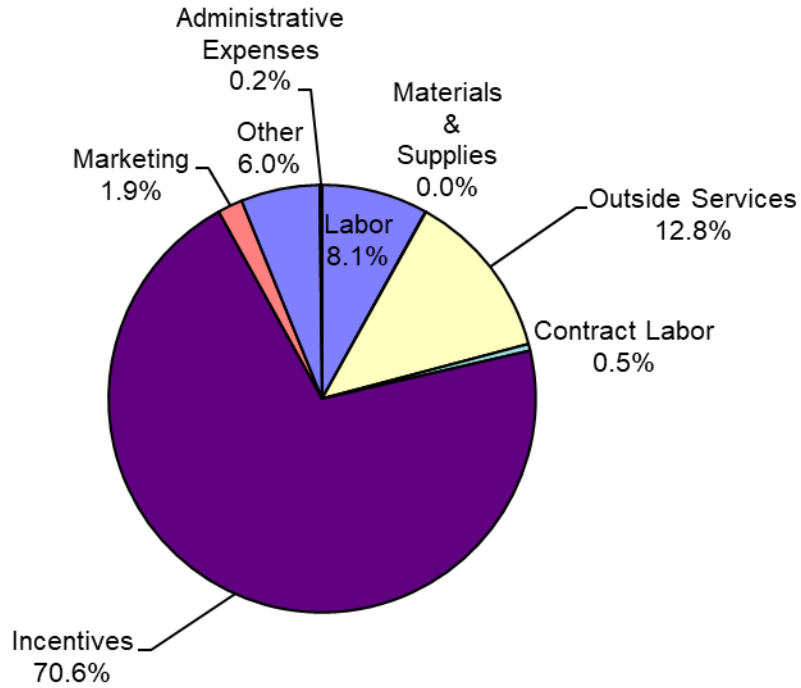
Table C – Southern Connecticut Gas (2022)

Table C  
SCG Budget Details

SCG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$90,885	\$200	\$4,201	\$1,500	\$777,448	\$19,187	\$825	\$675	\$894,921
HES - Core Services	\$169,315	\$700	\$121,632	\$50,000	\$1,192,487	\$59,733	\$1,300	\$1,700	\$1,596,867
HES - HVAC, Water Heaters	\$96,565	\$500	\$77,233	\$6,000	\$2,694,915	\$40,629	\$900	\$2,100	\$2,918,842
HES-Income Eligible	\$166,990	\$1,000	\$37,119	\$6,000	\$2,593,452	\$43,564	\$875	\$3,125	\$2,852,125
Residential Behavior	\$18,935	\$100	\$127,017	\$ -	\$ -	\$ -	\$ -	\$ -	\$146,052
<b>Subtotal: Residential EE Portfolio</b>	<b>\$542,690</b>	<b>\$2,500</b>	<b>\$367,202</b>	<b>\$63,500</b>	<b>\$7,258,303</b>	<b>\$163,113</b>	<b>\$3,900</b>	<b>\$7,600</b>	<b>\$8,408,808</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$86,451	\$1,000	\$11,000	\$3,000	\$1,475,120	\$23,936	\$1,200	\$6,800	\$1,608,506
Energy Opportunities	\$86,451	\$700	\$9,315	\$4,000	\$928,783	\$26,073	\$200	\$4,000	\$1,059,521
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$49,230	\$500	\$105,835	\$1,000	\$303,525	\$10,029	\$100	\$1,900	\$472,119
Small Business	\$76,141	\$200	\$2,855	\$2,500	\$143,301	\$4,971	\$100	\$1,900	\$231,969
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$298,272</b>	<b>\$2,400</b>	<b>\$129,005</b>	<b>\$10,500</b>	<b>\$2,850,729</b>	<b>\$65,009</b>	<b>\$1,600</b>	<b>\$14,600</b>	<b>\$3,372,115</b>
<b>DEMAND MANAGEMENT</b>									
Demand Mgmt. Res	\$ -	\$ -	\$71,155	\$ -	\$84,313	\$ -	\$ -	\$ -	\$155,468
Demand Mgmt. – C&I	\$ -	\$ -	\$102,792	\$ -	\$37,500	\$ -	\$ -	\$ -	\$140,292
<b>Subtotal: Deman Mgmt.</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$173,947</b>	<b>\$ -</b>	<b>\$121,813</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$295,760</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$ -	\$ -	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$ -	\$ -	\$82,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$ -	\$ -	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$ -	\$ -	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support -C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000	\$ -	\$75,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$161,292</b>	<b>\$ -</b>	<b>\$211,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,219
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$487,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$540,590
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$685,984	\$ -	\$685,984
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$889,646</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$685,984</b>	<b>\$ -</b>	<b>\$1,921,298</b>
<b>TOTAL BUDGET</b>	<b>\$1,167,572</b>	<b>\$5,792</b>	<b>\$1,853,670</b>	<b>\$74,000</b>	<b>\$10,230,844</b>	<b>\$274,554</b>	<b>\$866,005</b>	<b>\$26,169</b>	<b>\$14,498,605</b>

Table C Pie Chart – Southern Connecticut Gas (2022)

**SOUTHERN CONNECTICUT GAS  
2022 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$1,167,572	8.05%
Materials & Supplies	\$5,792	0.04%
Outside Services	\$1,853,670	12.79%
Incentives	\$74,000	0.51%
Marketing	\$10,230,844	70.56%
Other	\$274,554	1.89%
Administrative Expenses	\$866,005	5.97%
<b>Total</b>	<b>\$14,498,605</b>	<b>100.00%</b>



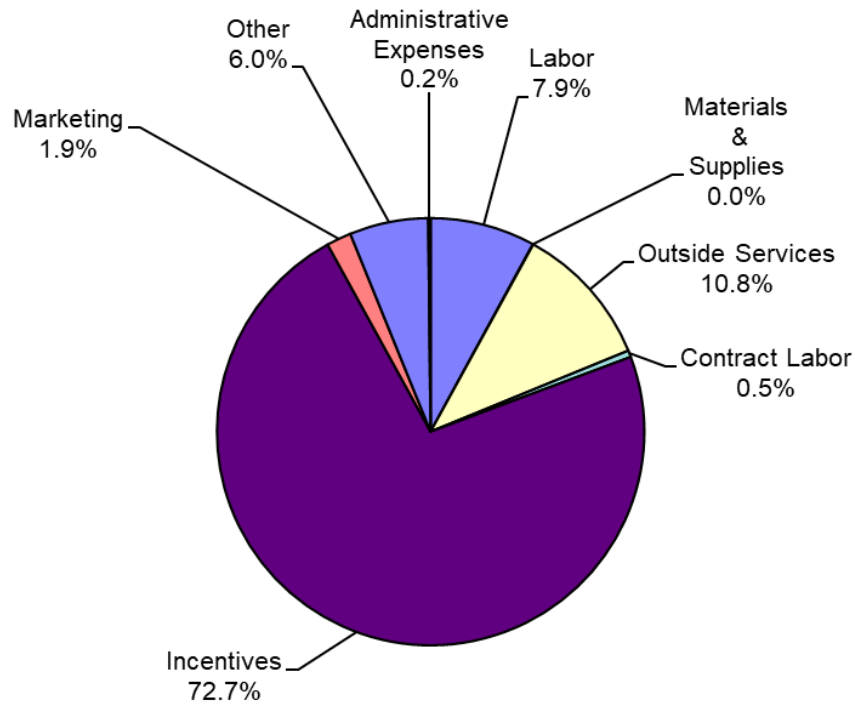
Table C – Southern Connecticut Gas (2023)

Table C  
SCG Budget Details

SCG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$90,885	\$200	\$4,201	\$1,500	\$809,612	\$19,187	\$825	\$675	\$927,086
HES - Core Services	\$169,315	\$700	\$121,632	\$50,000	\$1,249,881	\$59,733	\$1,300	\$1,700	\$1,654,261
HES - HVAC, Water Heaters	\$96,565	\$500	\$77,233	\$6,000	\$2,797,244	\$40,629	\$900	\$2,100	\$3,021,171
HES-Income Eligible	\$166,990	\$1,000	\$37,119	\$6,000	\$2,695,961	\$43,564	\$875	\$3,125	\$2,954,634
Residential Behavior	\$18,935	\$100	\$133,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$152,140
<b>Subtotal: Residential EE Portfolio</b>	<b>\$542,690</b>	<b>\$2,500</b>	<b>\$373,290</b>	<b>\$63,500</b>	<b>\$7,552,699</b>	<b>\$163,113</b>	<b>\$3,900</b>	<b>\$7,600</b>	<b>\$8,709,292</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$86,451	\$1,000	\$11,000	\$3,000	\$1,542,165	\$23,936	\$1,200	\$6,800	\$1,675,551
Energy Opportunities	\$86,451	\$700	\$9,315	\$4,000	\$968,312	\$26,073	\$200	\$4,000	\$1,099,050
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$49,230	\$500	\$105,835	\$1,000	\$323,203	\$10,029	\$100	\$1,900	\$491,797
Small Business	\$76,141	\$200	\$2,855	\$2,500	\$152,970	\$4,971	\$100	\$1,900	\$241,638
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$298,272</b>	<b>\$2,400</b>	<b>\$129,005</b>	<b>\$10,500</b>	<b>\$2,986,651</b>	<b>\$65,009</b>	<b>\$1,600</b>	<b>\$14,600</b>	<b>\$3,508,036</b>
<b>DEMAND MANAGEMENT</b>									
Demand Mgmt. Res	\$ -	\$ -	\$74,900	\$ -	\$88,750	\$ -	\$ -	\$ -	\$163,650
Demand Mgmt. – C&I	\$ -	\$ -	\$105,876	\$ -	\$51,500	\$ -	\$ -	\$ -	\$157,376
<b>Subtotal: Deman Mgmt.</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$180,776</b>	<b>\$ -</b>	<b>\$140,250</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$321,026</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$ -	\$ -	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$ -	\$ -	\$82,667	\$ -	\$ -	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$ -	\$ -	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$ -	\$ -	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support -C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000	\$ -	\$75,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$161,292</b>	<b>\$ -</b>	<b>\$211,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,219
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$210,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$263,590
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$695,218	\$ -	\$695,218
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$612,646</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$695,218</b>	<b>\$ -</b>	<b>\$1,653,531</b>
<b>TOTAL BUDGET</b>	<b>\$1,167,572</b>	<b>\$5,792</b>	<b>\$1,589,587</b>	<b>\$74,000</b>	<b>\$10,679,599</b>	<b>\$274,554</b>	<b>\$875,238</b>	<b>\$26,169</b>	<b>\$14,692,511</b>

Table C Pie Chart – Southern Connecticut Gas (2023)

**SOUTHERN CONNECTICUT GAS  
2023 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 1,167,572	7.95%
Materials & Supplies	\$ 5,792	0.04%
Outside Services	\$ 1,589,587	10.82%
Incentives	\$ 74,000	0.50%
Marketing	\$ 10,679,599	72.69%
Other	\$ 274,554	1.87%
Administrative Expenses	\$ 875,238	5.96%
<b>Total</b>	<b>\$ 14,692,511</b>	<b>100.00%</b>



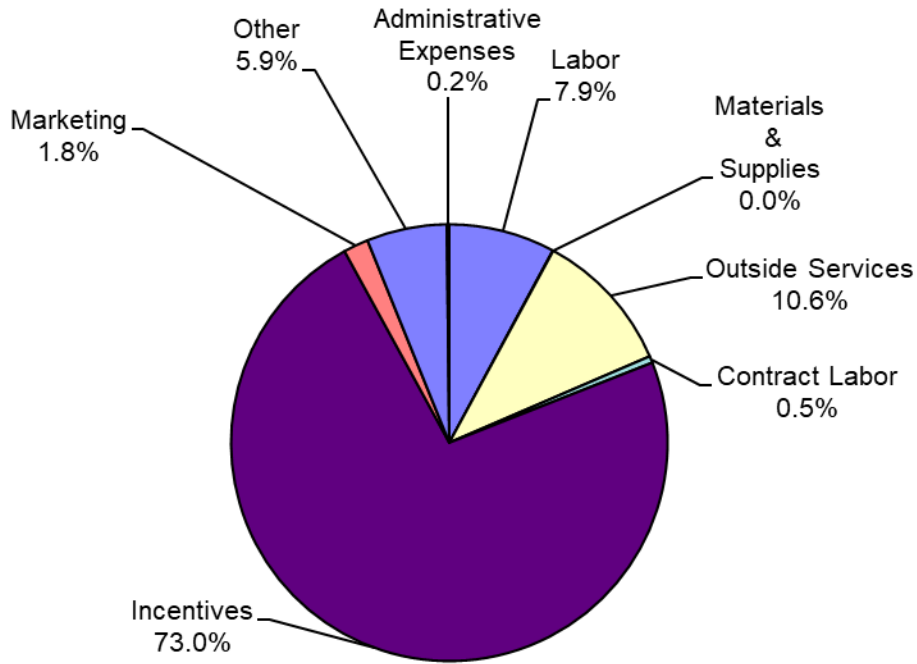
Table C – Southern Connecticut Gas (2024)

Table C  
SCG Budget Details

SCG EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
<b>RESIDENTIAL</b>									
Residential New Construction	\$90,885	\$200	\$4,201	\$1,500	\$821,153	\$19,187	\$825	\$675	\$938,626
HES - Core Services	\$169,315	\$700	\$121,632	\$50,000	\$1,270,473	\$59,733	\$1,300	\$1,700	\$1,674,853
HES - HVAC, Water Heaters	\$96,565	\$500	\$77,233	\$6,000	\$2,834,002	\$40,629	\$900	\$2,100	\$3,057,929
HES-Income Eligible	\$166,990	\$1,000	\$37,119	\$6,000	\$2,732,741	\$43,564	\$875	\$3,125	\$2,991,413
Residential Behavioral	\$18,935	\$100	\$134,999	\$ -	\$ -	\$ -	\$ -	\$ -	\$154,034
<b>Subtotal: Residential EE Portfolio</b>	<b>\$542,690</b>	<b>\$2,500</b>	<b>\$375,184</b>	<b>\$63,500</b>	<b>\$7,658,368</b>	<b>\$163,113</b>	<b>\$3,900</b>	<b>\$7,600</b>	<b>\$8,816,855</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>									
Energy Conscious Blueprint	\$86,451	\$1,000	\$11,000	\$3,000	\$1,563,022	\$23,936	\$1,200	\$6,800	\$1,696,408
Energy Opportunities	\$86,451	\$700	\$9,315	\$4,000	\$981,993	\$26,073	\$200	\$4,000	\$1,112,731
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	\$49,230	\$500	\$105,835	\$1,000	\$329,325	\$10,029	\$100	\$1,900	\$497,919
Small Business	\$76,141	\$200	\$2,855	\$2,500	\$155,978	\$4,971	\$100	\$1,900	\$244,646
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$298,272</b>	<b>\$2,400</b>	<b>\$129,005</b>	<b>\$10,500</b>	<b>\$3,030,319</b>	<b>\$65,009</b>	<b>\$1,600</b>	<b>\$14,600</b>	<b>\$3,551,704</b>
<b>DEMAND MANAGEMENT</b>									
Demand Mgmt. Res	\$ -	\$ -	\$78,645	\$ -	\$93,188	\$ -	\$ -	\$ -	\$171,833
Demand Mgmt. – C&I	\$ -	\$ -	\$109,052	\$ -	\$53,045	\$ -	\$ -	\$ -	\$162,097
<b>Subtotal: Deman Mgmt.</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$187,697</b>	<b>\$ -</b>	<b>\$146,233</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$333,930</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>									
Energy Education	\$9,390	\$363	\$54,122	\$0	\$0	\$1,815	\$8,444	\$2,533	\$76,667
Workforce Development	\$ -	\$ -	\$82,667	\$0	\$0	\$ -	\$ -	\$ -	\$82,667
Community Outreach	\$8,664	\$390	\$63,668	\$0	\$0	\$4,196	\$2,371	\$712	\$80,000
Customer Engagement Initiative	\$2,987	\$139	\$43,414	\$0	\$0	\$321	\$2,414	\$724	\$50,000
<b>Subtotal: Education &amp; Engagement</b>	<b>\$21,042</b>	<b>\$892</b>	<b>\$243,870</b>	<b>\$0</b>	<b>\$0</b>	<b>\$6,332</b>	<b>\$13,229</b>	<b>\$3,969</b>	<b>\$289,333</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>									
Financing Support - Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support -C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000	\$ -	\$75,000
RD&D	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
<b>Subtotal: Programs &amp; Requirements</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$50,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$161,292</b>	<b>\$ -</b>	<b>\$211,292</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>									
Administration	\$149,835	\$ -	\$9,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,219
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
EM&V	\$ -	\$ -	\$300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$300,000
Evaluation Administrator	\$ -	\$ -	\$29,607	\$ -	\$ -	\$ -	\$ -	\$ -	\$29,607
Information Technology	\$53,268	\$ -	\$188,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$241,590
EEB Consultants	\$ -	\$ -	\$53,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$53,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$702,324	\$ -	\$702,324
<b>Subtotal: Other</b>	<b>\$305,568</b>	<b>\$ -</b>	<b>\$590,646</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$40,100</b>	<b>\$702,324</b>	<b>\$ -</b>	<b>\$1,638,638</b>
<b>TOTAL BUDGET</b>	<b>\$1,167,572</b>	<b>\$5,792</b>	<b>\$1,576,402</b>	<b>\$74,000</b>	<b>\$10,834,919</b>	<b>\$274,554</b>	<b>\$882,345</b>	<b>\$26,169</b>	<b>\$14,841,752</b>

Table C Pie Chart – Southern Connecticut Gas (2024)

**SOUTHERN CONNECTICUT GAS  
2024 Gas Conservation  
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 1,167,572	7.87%
Materials & Supplies	\$ 5,792	0.04%
Outside Services	\$ 1,576,402	10.62%
Incentives	\$ 74,000	0.50%
Marketing	\$ 10,834,919	73.00%
Other	\$ 274,554	1.85%
Administrative Expenses	\$ 882,345	5.95%
<b>Total</b>	<b>\$ 14,841,752</b>	<b>100.00%</b>

Table D – Southern Connecticut Natural Gas Historical and Projected Expenditures (2013-2024)

Table D: SCG Historical and Projected \$ (2013-2024)  
Expenditures \$ (000)

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
HES-Income Eligible Weatherization	\$3,816	\$3,541	\$1,898	\$2,731	\$2,804	\$3,217
Home Energy Solutions	\$1,666	\$3,344	\$3,029	\$1,477	\$1,648	\$1,425
HVAC/Water Heating	\$39	\$266	\$585	\$1,675	\$1,497	\$2,812
Residential New Construction	\$596	\$281	\$453	\$623	\$392	-\$256
Residential Behavior	\$ -	\$114	-\$37	\$7	\$ -	\$126
<b>Subtotal: Residential</b>	<b>\$6,116</b>	<b>\$7,546</b>	<b>\$5,928</b>	<b>\$6,513</b>	<b>\$6,341</b>	<b>\$7,323</b>
<b>DEMAND MANAGEMENT</b>						
Energy Conscious Blueprint	\$697	\$1,483	\$941	\$1,247	\$956	\$760
Energy Opportunities	\$835	\$808	\$1,247	\$911	\$1,446	\$1,208
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	-\$20	\$46	\$134	\$69	\$118	\$130
Small Business	\$92	\$113	\$99	\$241	\$157	\$73
<b>Subtotal: C&amp;I</b>	<b>\$1,604</b>	<b>\$2,450</b>	<b>\$2,421</b>	<b>\$2,468</b>	<b>\$2,677</b>	<b>\$2,171</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Demand Management - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Demand Management – C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Educate the Public	\$ -	\$ -	\$ -	\$218	\$210	\$68
Customer Engagement	\$ -	\$ -	\$ -	\$67	\$17	\$5
Educate the Students	\$ -	\$ -	\$ -	\$35	\$68	\$26
Educate the Workforce	\$ -	\$ -	\$ -	\$30	\$16	\$13
SmartLiving Center/Science Center	\$ -	\$167	\$100	\$ -	\$ -	\$ -
Eesmarts/K-12 Education	\$ -	\$26	\$70	\$ -	\$ -	\$ -
Clean Energy Communities	\$22	\$47	\$68	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$22</b>	<b>\$240</b>	<b>\$238</b>	<b>\$350</b>	<b>\$311</b>	<b>\$112</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Financing Support – Residential	\$79	\$87	\$86	\$77	\$103	\$8
Financing Support - C&I	\$ -	\$ -	\$0	\$ -	\$ -	\$ -
RD&D	\$86	\$ -	\$0	\$8	\$17	\$59
Institute for Sustainable Energy	\$ -	\$37	\$41	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$6	\$3	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$169</b>	<b>\$130</b>	<b>\$130</b>	<b>\$85</b>	<b>\$120</b>	<b>\$66</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$89	\$127	\$170	\$130	\$172	\$143
Marketing Plan	\$ -	\$97	\$85	\$109	\$73	\$30
Planning	\$151	\$99	\$102	\$141	\$169	\$98
EM&V	\$24	\$141	\$161	\$200	\$200	\$218
Evaluation Administrator	\$ -	\$26	\$26	\$20	\$20	\$19
Information Technology	\$14	\$101	\$210	\$109	\$106	\$140
EEB Consultants	\$43	\$24	\$15	\$43	\$43	\$32
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$10	\$4
PMI	\$655	\$694	\$596	\$687	\$435	\$709
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$977</b>	<b>\$1,310</b>	<b>\$1,365</b>	<b>\$1,439</b>	<b>\$1,228</b>	<b>\$1,393</b>
<b>TOTAL</b>	<b>\$8,888</b>	<b>\$11,676</b>	<b>\$10,082</b>	<b>\$10,855</b>	<b>\$10,677</b>	<b>\$11,067</b>

**Table D – Southern Connecticut Gas CT Historical and Projected Expenditures (2013-2024)(continued)**

**Table D: SCG Historical and Projected \$ (2013-2024)  
Expenditures \$ (000)**

	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget	2024 Budget
<b>RESIDENTIAL</b>						
HES-Income Eligible Weatherization	\$3,050	\$1,681	\$2,809	\$2,852	\$2,955	\$2,991
Home Energy Solutions	\$1,858	\$2,556	\$2,439	\$1,597	\$1,654	\$1,675
HVAC/Water Heating	\$3,493	\$3,257	\$3,269	\$2,919	\$3,021	\$3,058
Residential New Construction	\$499	\$463	\$753	\$895	\$927	\$939
Residential Behavior	\$30	\$151	\$166	\$146	\$152	\$154
<b>Subtotal: Residential</b>	<b>\$8,929</b>	<b>\$8,107</b>	<b>\$9,436</b>	<b>\$8,410</b>	<b>\$8,711</b>	<b>\$8,820</b>
<b>DEMAND MANAGEMENT</b>						
Energy Conscious Blueprint	\$1,226	\$2,157	\$1,812	\$1,609	\$1,676	\$1,696
Energy Opportunities	\$734	\$2,033	\$1,188	\$1,060	\$1,099	\$1,113
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$197	\$229	\$532	\$472	\$492	\$498
Small Business	\$217	\$238	\$261	\$232	\$242	\$245
<b>Subtotal: C&amp;I</b>	<b>\$2,373</b>	<b>\$4,656</b>	<b>\$3,793</b>	<b>\$3,372</b>	<b>\$3,508</b>	<b>\$3,552</b>
<b>DEMAND MANAGEMENT</b>						
Demand Management - Residential	\$ -	\$ -	\$ -	\$155	\$164	\$172
Demand Management – C&I	\$ -	\$ -	\$ -	\$140	\$157	\$162
<b>Subtotal: Demand Management</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$296</b>	<b>\$321</b>	<b>\$334</b>
<b>OTHER - EDUCATION &amp; ENGAGEMENT</b>						
Educate the Public	\$71	\$31	\$45	\$77	\$77	\$77
Customer Engagement	\$ -	\$26	\$67	\$83	\$83	\$83
Educate the Students	\$31	\$65	\$76	\$80	\$80	\$80
Educate the Workforce	\$16	\$ -	\$100	\$50	\$50	\$50
SmartLiving Center/Science Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Eesmarts/K-12 Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Education</b>	<b>\$117</b>	<b>\$122</b>	<b>\$289</b>	<b>\$289</b>	<b>\$289</b>	<b>\$289</b>
<b>OTHER - PROGRAMS/REQUIREMENTS</b>						
Financing Support – Residential	\$82	\$62	\$86	\$86	\$86	\$86
Financing Support - C&I	\$ -	\$ -	\$75	\$75	\$75	\$75
RD&D	\$38	\$20	\$50	\$50	\$50	\$50
Institute for Sustainable Energy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal: Programs/Requirements</b>	<b>\$120</b>	<b>\$82</b>	<b>\$211</b>	<b>\$211</b>	<b>\$211</b>	<b>\$211</b>
<b>OTHER - ADMINISTRATIVE &amp; PLANNING</b>						
Administration	\$120	\$81	\$159	\$159	\$159	\$159
Marketing Plan	\$18	\$9	\$40	\$40	\$40	\$40
Planning	\$106	\$114	\$102	\$102	\$102	\$102
EM&V	\$218	\$201	\$200	\$300	\$300	\$300
Evaluation Administrator	\$19	\$22	\$22	\$30	\$30	\$30
Information Technology	\$128	\$79	\$141	\$541	\$264	\$242
EEB Consultants	\$31	\$43	\$43	\$53	\$53	\$53
Audits - Financial and Operational	\$10	\$2	\$10	\$10	\$10	\$10
PMI	\$901	\$630	\$647	\$686	\$695	\$702
<b>Subtotal: Admin. &amp; Planning</b>	<b>\$1,550</b>	<b>\$1,181</b>	<b>\$1,364</b>	<b>\$1,921</b>	<b>\$1,654</b>	<b>\$1,639</b>
<b>TOTAL</b>	<b>\$15,995</b>	<b>\$14,149</b>	<b>\$15,093</b>	<b>\$14,499</b>	<b>\$14,693</b>	<b>\$14,842</b>

Table D1 – Southern Connecticut Gas Annual Savings CCF (2013-2024)

**Table D1**  
**SCG – Annual Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES Income Eligible	635	459	186	205	229	326	316	103	227	163	166	164
HES	284	501	388	187	168	156	202	186	284	97	102	104
HVAC/Water Heating	-	-	-	232	197	407	439	378	297	261	271	275
Residential New Construction	19	30	24	53	15	19	26	18	114	173	180	182
Residential Behavior	-	-	-	-	-	-	95	-	107	128	129	122
<b>Subtotal: Residential EE Portfolio</b>	<b>945</b>	<b>1,035</b>	<b>679</b>	<b>677</b>	<b>609</b>	<b>908</b>	<b>1,078</b>	<b>685</b>	<b>1,028</b>	<b>822</b>	<b>847</b>	<b>847</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	290	201	138	411	134	99	212	404	218	180	183	180
Energy Opportunities	222	508	540	727	438	585	470	646	166	204	208	207
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	86	2	5	47	108	243	214	193	293	211	218	218
Small Business	11	37	30	68	42	33	30	22	26	27	28	28
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>609</b>	<b>748</b>	<b>713</b>	<b>1,253</b>	<b>722</b>	<b>960</b>	<b>927</b>	<b>1,265</b>	<b>703</b>	<b>622</b>	<b>638</b>	<b>633</b>
<b>TOTAL</b>	<b>1,554</b>	<b>1,783</b>	<b>1,392</b>	<b>1,930</b>	<b>1,331</b>	<b>1,868</b>	<b>2,005</b>	<b>1,950</b>	<b>1,731</b>	<b>1,445</b>	<b>1,485</b>	<b>1,480</b>

Table D2 – Southern Connecticut Gas Lifetime Savings CCF (2013-2024)

**Table D2**  
**SCG – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual
<b>RESIDENTIAL</b>						
HES-Income Eligible (Weatherization)	13,533	9,680	3,903	4,333	4,941	7,151
HES	5,613	10,147	7,797	3,970	3,425	3,159
HVAC/Water Heating	136	861	1,553	4,619	3,992	8,147
Residential New Construction	457	705	593	1,272	370	473
Residential Behavior	-	-	-	-	-	-
<b>Subtotal: Residential EE Portfolio</b>	<b>19,739</b>	<b>21,393</b>	<b>13,846</b>	<b>14,194</b>	<b>12,728</b>	<b>18,930</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	4,484	3,339	2,194	7,539	2,107	1,660
Energy Opportunities	2,322	5,158	6,421	7,630	4,445	6,924
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	430	10	25	343	559	1,337
Small Business	152	408	427	895	438	382
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>7,388</b>	<b>8,915</b>	<b>9,067</b>	<b>16,407</b>	<b>7,549</b>	<b>10,303</b>
<b>TOTAL</b>	<b>27,127</b>	<b>30,308</b>	<b>22,913</b>	<b>30,601</b>	<b>20,277</b>	<b>29,233</b>

**Table D2 – Southern Connecticut Gas Lifetime Savings CCF (2013-2024)(continued)**

**Table D2**  
**SCG – Lifetime Savings (CCF)**  
**Natural Gas Conservation Plan Actual/Budget**

	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>						
HES-Income Eligible (Weatherization)	6,558	2,238	4,731	3,494	3,570	3,553
HES	4,089	3,852	6,184	1,990	2,086	2,120
HVAC/Water Heating	8,455	7,003	5,918	5,213	5,411	5,482
Residential New Construction	657	447	2,839	4,314	4,491	4,552
Residential Behavior	200	-	214	255	257	245
<b>Subtotal: Residential EE Portfolio</b>	<b>19,959</b>	<b>13,540</b>	<b>19,886</b>	<b>15,267</b>	<b>15,816</b>	<b>15,953</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>						
Energy Conscious Blueprint	3,006	5,382	3,247	2,988	3,033	2,988
Energy Opportunities	4,249	7,402	2,313	2,015	2,060	2,048
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	1,076	1,103	1,652	1,123	1,161	1,160
Small Business	381	280	378	391	406	402
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>8,712</b>	<b>14,167</b>	<b>7,590</b>	<b>6,518</b>	<b>6,659</b>	<b>6,598</b>
<b>TOTAL</b>	<b>28,671</b>	<b>27,707</b>	<b>27,476</b>	<b>21,785</b>	<b>22,475</b>	<b>22,550</b>

Table D3 – Southern Connecticut Gas Cost per Annual Savings CCF (2013-2024)

**Table D3**  
**SCG - Cost per Annual Savings (CCF) (2013-2024)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES-Income Eligible - Weatherization	\$6.009	\$7.715	\$10.204	\$13.322	\$12.245	\$9.868	\$9.652	\$16.316	\$12.386	\$6.009	\$7.715	\$10.204
Home Energy Solutions	\$5.866	\$6.675	\$7.807	\$7.898	\$9.810	\$9.135	\$9.197	\$13.743	\$8.602	\$5.866	\$6.675	\$7.807
HVAC/Water Heating	\$0.000	\$0.000	\$0.000	\$7.220	\$7.599	\$6.909	\$7.957	\$8.616	\$11.015	\$0.000	\$0.000	\$0.000
Residential New Construction	\$31.464	\$9.449	\$18.875	\$11.755	\$26.133	(\$13.451)	\$19.173	\$25.741	\$6.626	\$31.464	\$9.449	\$18.875
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.313	\$ -	\$1.553	NA	NA	NA
<b>Subtotal: Residential EE Portfolio</b>	<b>\$6.473</b>	<b>\$7.289</b>	<b>\$8.730</b>	<b>\$9.620</b>	<b>\$10.412</b>	<b>\$8.065</b>	<b>\$8.283</b>	<b>\$11.835</b>	<b>\$9.181</b>	<b>\$6.473</b>	<b>\$7.289</b>	<b>\$8.730</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$2.403	\$7.378	\$6.819	\$3.034	\$7.134	\$7.676	\$5.783	\$5.339	\$8.311	\$2.403	\$7.378	\$6.819
Energy Opportunities	\$3.761	\$1.591	\$2.309	\$1.253	\$3.301	\$2.065	\$1.561	\$3.147	\$7.159	\$3.761	\$1.591	\$2.309
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	(\$0.233)	\$22.277	\$26.800	\$1.468	\$1.093	\$0.537	\$0.920	\$1.186	\$1.815	(\$0.233)	\$22.277	\$26.800
Small Business	\$8.364	\$3.054	\$3.300	\$3.544	\$3.738	\$2.208	\$7.145	\$10.806	\$10.050	\$8.364	\$3.054	\$3.300
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$2.634</b>	<b>\$3.276</b>	<b>\$3.396</b>	<b>\$1.970</b>	<b>\$3.708</b>	<b>\$2.262</b>	<b>\$2.561</b>	<b>\$3.681</b>	<b>\$5.396</b>	<b>\$2.634</b>	<b>\$3.276</b>	<b>\$3.396</b>



Table D4 – Southern Connecticut Gas Cost per Lifetime Savings CCF (2013-2024)

**Table D4**  
**SCG - Cost per Lifetime Savings (CCF) (2013-2024)**  
**Natural Gas Conservation Plan Actual/Budget**

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goals	Goals	Goals	Goals
<b>RESIDENTIAL</b>												
HES-Income Eligible - Weatherization	\$0.282	\$0.366	\$0.486	\$0.630	\$0.567	\$0.450	\$0.465	\$0.751	\$0.594	\$0.282	\$0.366	\$0.486
Home Energy Solutions	\$0.297	\$0.330	\$0.388	\$0.372	\$0.481	\$0.451	\$0.454	\$0.664	\$0.394	\$0.297	\$0.330	\$0.388
HVAC/Water Heating	\$0.283	\$0.309	\$0.377	\$0.363	\$0.375	\$0.345	\$0.413	\$0.465	\$0.552	\$0.283	\$0.309	\$0.377
Residential New Construction	\$1.304	\$0.399	\$0.764	\$0.490	\$1.059	(\$0.540)	\$0.759	\$1.037	\$0.265	\$1.304	\$0.399	\$0.764
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.149	\$ -	\$0.776	\$ -	\$ -	\$ -
<b>Subtotal: Residential EE Portfolio</b>	<b>\$0.310</b>	<b>\$0.353</b>	<b>\$0.428</b>	<b>\$0.459</b>	<b>\$0.498</b>	<b>\$0.387</b>	<b>\$0.447</b>	<b>\$0.599</b>	<b>\$0.474</b>	<b>\$0.310</b>	<b>\$0.353</b>	<b>\$0.428</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	\$0.155	\$0.444	\$0.429	\$0.165	\$0.454	\$0.458	\$0.408	\$0.401	\$0.558	\$0.155	\$0.444	\$0.429
Energy Opportunities	\$0.360	\$0.157	\$0.194	\$0.119	\$0.325	\$0.174	\$0.173	\$0.275	\$0.514	\$0.360	\$0.157	\$0.194
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	(\$0.047)	\$4.455	\$5.360	\$0.201	\$0.211	\$0.098	\$0.183	\$0.208	\$0.322	(\$0.047)	\$4.455	\$5.360
Small Business	\$0.605	\$0.277	\$0.232	\$0.269	\$0.358	\$0.191	\$0.568	\$0.849	\$0.691	\$0.605	\$0.277	\$0.232
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>\$0.217</b>	<b>\$0.275</b>	<b>\$0.267</b>	<b>\$0.150</b>	<b>\$0.355</b>	<b>\$0.211</b>	<b>\$0.272</b>	<b>\$0.329</b>	<b>\$0.500</b>	<b>\$0.217</b>	<b>\$0.275</b>	<b>\$0.267</b>

Table D5 – Southern Connecticut Gas Units (2013-2024)

**Table D5**  
**SCG – Units**  
**Natural Gas Conservation Plan Actual/Budget**

	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals	2022 Goals	2023 Goals	2024 Goals
<b>RESIDENTIAL</b>												
HES Income Eligible – Weatherization	3,647	2,395	1,187	1,329	1,319	2,818	5,314	868	1,726	1,078	1,214	1,331
Home Energy Solutions	2,619	3,957	3,758	1,783	1,600	1,467	1,729	4,577	2,110	849	889	904
HVAC/Water Heating	155	747	1,218	3,099	2,128	5,004	6,777	13,504	5,075	4,468	4,637	4,698
Residential New Construction	116	336	54	294	43	136	126	121	358	828	862	874
Residential Behavior	-	-	-	-	-	-	14,250	-	16,000	16,212	15,402	14,632
<b>Subtotal: Residential EE Portfolio</b>	<b>6,537</b>	<b>7,435</b>	<b>6,217</b>	<b>6,505</b>	<b>5,090</b>	<b>9,425</b>	<b>28,196</b>	<b>19,070</b>	<b>25,269</b>	<b>23,434</b>	<b>23,005</b>	<b>22,439</b>
<b>COMMERCIAL &amp; INDUSTRIAL</b>												
Energy Conscious Blueprint	100	87	40	67	32	75	223	216	321	699	730	740
Energy Opportunities	31	40	22	28	18	48	11	47	14	40	59	60
Business & Energy Sustainability (O&M, RCx, CSP/SEM)	3	4	2	9	3	22	10	4	16	14	15	15
Small Business	72	57	28	51	72	62	45	46	148	71	74	75
<b>Subtotal: C&amp;I EE Portfolio</b>	<b>206</b>	<b>188</b>	<b>92</b>	<b>155</b>	<b>125</b>	<b>207</b>	<b>289</b>	<b>313</b>	<b>499</b>	<b>824</b>	<b>879</b>	<b>891</b>
<b>TOTAL</b>	<b>6,743</b>	<b>7,623</b>	<b>6,309</b>	<b>6,660</b>	<b>5,215</b>	<b>9,632</b>	<b>28,485</b>	<b>19,383</b>	<b>25,768</b>	<b>24,258</b>	<b>23,884</b>	<b>23,330</b>

Southern Connecticut Gas PMI (2022)

**SOUTHERN CONNECTICUT GAS COMPANY**

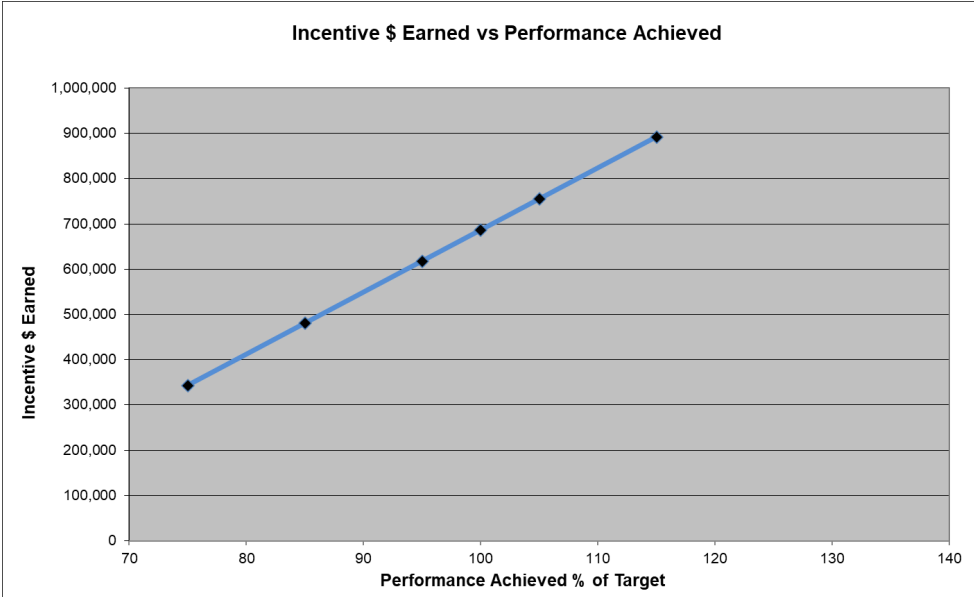
**2022 Management Incentive Performance Indicators and Incentive Matrix**

SCG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected SCG Performance Incentive is **\$685,984** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$13,719,681** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

-Performance Incentive Illustration-

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$342,992
85	3.5%	\$480,189
95	4.5%	\$617,386
<b>100</b>	<b>5.0%</b>	<b>\$685,984</b>
105	5.5%	\$754,582
115	6.5%	\$891,779

Maximum Budget **\$13,719,681**  
 Goals will be prorated based on actual over/under spend of budget.



**Southern Connecticut Gas PMI (2022) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF	% (1)				
Residential Programs (Sector Level) Sector Budget	\$8,408,808				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	\$147,075
		New Construction	4,314,180	28.26%				
		Home Energy Solutions	1,990,125	13.04%				
		HVAC	5,213,154	34.15%				
		HES - Income Eligible	3,494,102	22.89%				
		Behavior	255,233	1.67%				
		<b>Total</b>	<b>15,266,793</b>					
		Savings Rate	\$0.7952	/ccf				
		Savings	\$12,139,543					
		(1) percent of target goal						
Net Residential Gas Benefit:					\$3,730,735	0.2144	\$147,075	
Home Energy Solutions	\$1,596,867	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	\$30,869
HES-Income Eligible	\$2,852,125	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home	0.0450	\$30,869

**Southern Connecticut Gas PMI (2022) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$3,372,115</b>	Energy Conscious Blueprint	2,987,944	45.84%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs <b>\$4,456,314</b>	0.1856	<b>\$127,319</b>
		Energy Opportunities	2,015,193	30.92%				
		Business and Energy Sustainability	1,123,284	17.23%				
		Small Business	391,359	6.00%				
		<b>Total</b>	<b>6,517,779</b>					
		Savings Rate	<b>\$0.6837</b> / ccf					
		Savings	<b>\$4,456,314</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:					<b>\$1,084,199</b>	0.1856	<b>\$127,319</b>	
Small Business	<b>\$231,969</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$34,299</b>	
Energy Conscious Blueprint / Energy Opportunities	<b>\$2,668,027</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).		% of Gas Projects	X% of signed projects	0.0500	<b>\$34,299</b>	
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.		Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$6,860</b>	
<b>Total Incentives</b>						<b>1.0000</b>	<b>\$685,984</b>	

Southern Connecticut Gas PMI (2023)

**SOUTHERN CONNECTICUT GAS COMPANY**

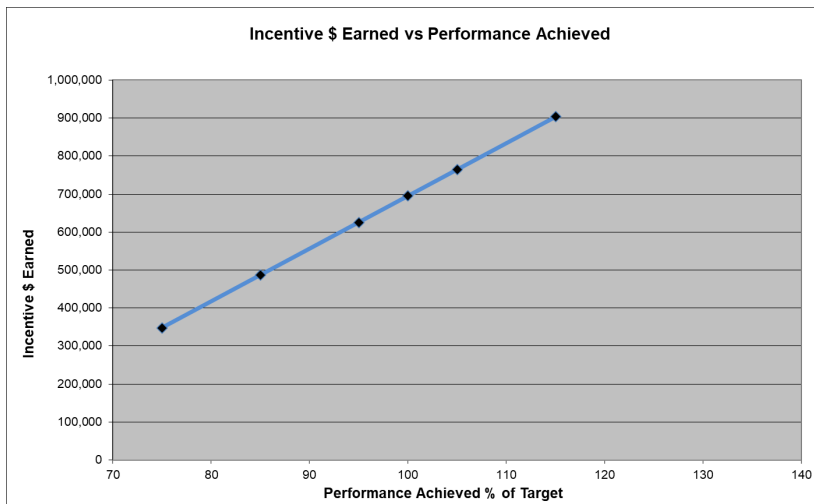
**2023 Management Incentive Performance Indicators and Incentive Matrix**

SCG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected SCG Performance Incentive is **\$695,218** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$13,904,353** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$347,609
85	3.5%	\$486,652
95	4.5%	\$625,696
<b>100</b>	<b>5.0%</b>	<b>\$695,218</b>
105	5.5%	\$764,739
115	6.5%	\$903,783
<b>Maximum Budget</b>	<b>\$13,904,353</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Southern Connecticut Gas PMI (2023) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL		Program Name	LT-CCF	% (1)				
Residential Programs (Sector Level) Sector Budget	<b>\$8,709,292</b>				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$149,055</b>
		New Construction	4,490,850	28.39%				
		Home Energy Solutions	2,085,908	13.19%				
		HVAC	5,411,104	34.21%				
		HES - Income Eligible	3,570,327	22.57%				
		Behavior	257,448	1.63%				
		<b>Total</b>	<b>15,815,637</b>					
		Savings Rate	<b>\$0.8002</b>	/ccf				
		Savings	<b>\$12,656,144</b>					
		(1) percent of target goal						
Net Residential Gas Benefit:					<b>\$3,946,852</b>	0.2144	<b>\$149,055</b>	
Home Energy Solutions	<b>\$1,654,261</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$31,285</b>
HES-Income Eligible	<b>\$2,954,634</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$31,285</b>

**Southern Connecticut Gas PMI (2023) (continued)**

SECTOR		Performance Indicators			Incentive Metrics				
Program					Incentive Metric	Target Goal	Weight	Incentive	
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>		<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$3,508,036</b>	Energy Conscious Blueprint	3,032,765		45.54%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs	0.1856	<b>\$129,032</b>
		Energy Opportunities	2,059,765		30.93%				
		Business and Energy Sustainability	1,161,273		17.44%				
		Small Business	405,596		6.09%				
		<b>Total</b>	<b>6,659,398</b>						
		Savings Rate	<b>\$0.6881</b>	/ccf					
		Savings	<b>\$4,582,175</b>						
		(1) percent of target goal							
Net C&I Gas System Benefit:							<b>\$1,074,139</b>	0.1856	<b>\$129,032</b>
Small Business	<b>\$241,638</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$34,761</b>	
Energy Conscious Blueprint / Energy Opportunities	<b>\$2,774,602</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$34,761</b>	
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$6,952</b>	
<b>Total Incentives</b>								<b>1.0000</b>	<b>\$695,218</b>



Southern Connecticut Gas PMI (2024)

**SOUTHERN CONNECTICUT GAS COMPANY**

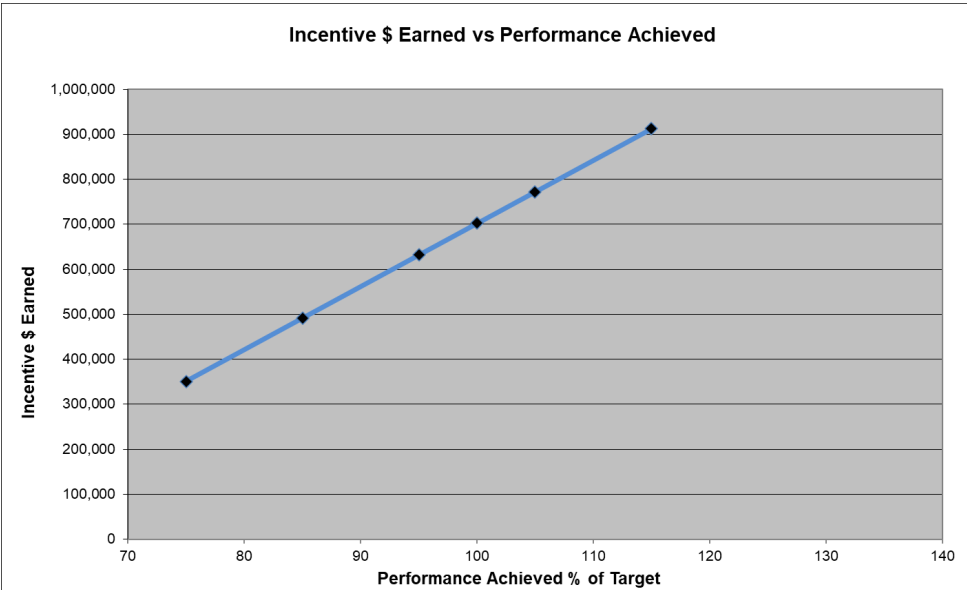
**2024 Management Incentive Performance Indicators and Incentive Matrix**

SCG and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2022-2024 Plan. The projected SCG Performance Incentive is **\$702,324** and is based on achieving 100% of all performance targets and earning an incentive of 5.0% of the total EE program budget of **\$14,046,488** as shown on Table A (exclusive of EEB costs, Evaluation Consultant costs, Management incentives and Audit costs). The actual earned amount will be calculated on a sliding scale based on the percent of goal achieved and the actual total expenditures, based on the following performance range:

**-Performance Incentive Illustration-**

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.5%	\$351,162
85	3.5%	\$491,627
95	4.5%	\$632,092
<b>100</b>	<b>5.0%</b>	<b>\$702,324</b>
105	5.5%	\$772,557
115	6.5%	\$913,022
<b>Maximum Budget</b>	<b>\$14,046,488</b>	

**Goals will be prorated based on actual over/under spend of budget.**



**Southern Connecticut Gas PMI (2024) (continued)**

SECTOR		Performance Indicators			Incentive Metrics				
Program					Incentive Metric	Target Goal	Weight	Incentive	
RESIDENTIAL		Program Name	LT-CCF	% (1)					
Residential Programs (Sector Level) Sector Budget	<b>\$8,816,855</b>				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.2144	<b>\$150,578</b>	
		New Construction	4,552,470	28.54%					
		Home Energy Solutions	2,120,274	13.29%					
		HVAC	5,482,208	34.37%					
		HES - Income Eligible	3,553,260	22.27%					
		Behavior	244,578	1.53%					
		<b>Total</b>	<b>15,952,790</b>						
		Savings Rate	<b>\$0.8013</b>	/					ccf
		Savings	<b>\$12,782,463</b>						
		(1) percent of target goal							
Net Residential Gas Benefit:					<b>\$3,965,609</b>	0.2144	<b>\$150,578</b>		
Home Energy Solutions	<b>\$1,674,853</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$31,605</b>	
HES-Income Eligible	<b>\$2,991,413</b>	Achieve CCF savings from "core services" per single-family home that has air sealing completed (i.e., non-barriered homes). Based on previous year's actuals adjusted to the current year CT PSD plus 2.0% (X*102%).			ccf/home	Achieve X ccf savings/ single-family home single-family home	0.0450	<b>\$31,605</b>	

**Southern Connecticut Gas PMI (2024) (continued)**

SECTOR		Performance Indicators			Incentive Metrics			
Program					Incentive Metric	Target Goal	Weight	Incentive
<b>COMMERCIAL &amp; INDUSTRIAL (C&amp;I)</b>		<b>Program Name</b>	<b>LT-CCF</b>	<b>% (1)</b>				
C&I Programs (Sector Level) Sector Budget	<b>\$3,551,704</b>	Energy Conscious Blueprint	2,988,106	45.29%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs <b>\$4,564,154</b>	0.1856	<b>\$130,351</b>
		Energy Opportunities	2,047,908	31.04%				
		Business and Energy Sustainability	1,160,067	17.58%				
		Small Business	401,526	6.09%				
		<b>Total</b>	<b>6,597,607</b>					
		Savings Rate	<b>\$0.6918</b>	/ccf				
		Savings	<b>\$4,564,154</b>					
		(1) percent of target goal						
Net C&I Gas System Benefit:					<b>\$1,012,450</b>	0.1856	\$130,351	
Small Business	<b>\$244,646</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$35,116</b>
Energy Conscious Blueprint / Energy Opportunities	<b>\$2,809,140</b>	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measures and service bundles, technical assistance for SEM, benchmarking and financing where appropriate (especially for high-cost, long payback measures). Calculated as signed projects that included comprehensive offerings at time of offering/all signed projects (excluding rebates). Comprehensive shall be defined as including at least one end use with BES counting as more than one end use. Based on Prior Year Actual results + 5% (X%+5%).			% of Gas Projects	X% of signed projects	0.0500	<b>\$35,116</b>
Evaluation		Timely turnaround on purchase orders and Evaluation Data requests based on agreed upon timelines for each study. Sliding scale as noted in the PMI exhibit - with 100% of goal achievement based on 90% of the data requests and purchase orders being completed on time.			Timely turnaround	Based on 90% of data request and purchase orders	0.0100	<b>\$7,023</b>
<b>Total Incentives</b>							<b>1.0000</b>	<b>\$702,324</b>

# 2022-2024 Conservation & Load Management Plan

*Connecticut's Energy Efficiency and Demand Management Plan*

Filed November 1, 2021

Submitted by Eversource Energy, United Illuminating, Connecticut Natural Gas Corporation, and Southern Connecticut Gas