

2021 Plan Update to the 2019-2021 Conservation & Load Management Plan

*Connecticut's Energy Efficiency & Demand Management Plan
Connecticut General Statutes—16-245m(d)*

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CHAPTER ONE: OVERVIEW

Executive Summary

In accordance with Connecticut General Statutes § 16-245(m) and § 16-32(f), Connecticut’s electric and natural gas utilities (collectively known as “the Companies”) are pleased to submit the 2021 Plan Update (“2021 Plan Update”) to the 2019-2021 Connecticut Conservation & Load Management Plan (“2019-2021 Plan”).¹ The 2021 Plan Update is being jointly submitted by The Connecticut Light and Power Company d/b/a Eversource Energy (“Eversource”) and The United Illuminating Company (“United Illuminating”)(collectively, the “Electric Companies”), and the Connecticut Natural Gas Corporation (“CNG”), Southern Connecticut Gas (“SCG”), and Yankee Gas Services Company d/b/a as Eversource (collectively known as the “Natural Gas Companies”).

The Companies worked extensively and collaboratively with Connecticut’s Energy Efficiency Board (“EEB”) and its consultants to develop the 2021 Plan Update. The 2021 Plan Update is a continuation (third year) of the currently approved comprehensive, multi-year 2019-2021 Plan. On December 20, 2018, the Department of Energy and Environmental Protection (“DEEP”) issued its final Approval with Conditions of the 2019-2021 Plan (“2019-2021 DEEP Approval”).² Guided by the 2021 Plan Update and the EEB’s guidance and input, the Companies will work during this third program year to address the 2019-2021 DEEP Approval, previous compliance items, public input comments, energy efficiency programmatic trends and results, current energy price forecasts, and the policies and strategies of Connecticut’s 2018 Comprehensive Energy Strategy (“2018 CES”).³

The 2019-2021 Plan’s primary goal is to “implement cost-effective energy conservation programs, demand management, and market transformation initiatives.”⁴ Since 1998, the Companies have delivered nationally recognized energy efficiency and demand management programs to Connecticut’s businesses, municipalities, and residents. The 2021 program year will be the second year that the Companies have been legislatively directed to implement demand management programs.⁵ The 2021 Plan Update covers year 22 of electric conservation programs since the passage of the electric

¹ *2019-2021 Plan*, filed Nov. 19, 2018, available online at: <https://www.ct.gov/deep/lib/deep/energy/conserloadmgmt/final-2019-2021-clm-plan-11-19-18.pdf>.

² DEEP, *Approval with Conditions of the Connecticut Conservation and Load Management Plan for 2019 through 2021*, (“2019-2021 DEEP Approval”), issued Dec. 20, 2018, available online at: <https://www.ct.gov/deep/lib/deep/energy/conserloadmgmt/ct-deep-approval-with-conditions-of-2019-2021-clm-plan-12-20-18.pdf>.

³ DEEP, *2018 Comprehensive Energy Strategy*, available online at: http://www.ct.gov/deep/lib/deep/energy/ces/2018_comprehensive_energy_strategy.pdf.

⁴ Public Act 18-50, § 9(d)(1), *An Act Concerning Connecticut’s Energy Future*, May 24, 2018, available online at: <https://www.cga.ct.gov/2018/act/pa/2018PA-00050-R00SB-00009-PA.htm>.

⁵ Public Act 18-50, § 9(d)(1). The “demand management” component of this directive started in 2020. Existing law already requires conservation and load management (“C&LM”) plans “to implement cost-effective energy conservation programs and market transformation initiatives,” see Conn. Gen. Stat. §16-245m(d)(1). Prior C&LM plans have also included load management programs.

restructuring act (Public Act 98-28)⁶ and covers year 15 of natural gas conservation programs since energy independence legislation (Public Act 05-01) was passed.⁷

The 2019-2021 Plan's priorities and programs are a **\$759 million investment** that results in significant energy and cost savings for customers and reduced air pollutant emissions. Additional benefits from the 2019-2021 Plan's programs include an increased demand for a locally sourced, highly-skilled green workforce, improved productivity for businesses and industries, and increased comfort for residents and building occupants.

The 2019-2021 Plan's energy efficiency and demand management initiatives will generate **\$3.56** into Connecticut's economy for every **\$1** invested in energy efficiency and provide an economic lifetime benefit of **\$2.7 billion dollars**. The economic benefits that derive from Connecticut's energy efficiency programs are reinvested into the state's economy and workforce through direct and indirect services, professional development, and training initiatives. In Connecticut, energy efficiency programs create and support **36,000** jobs annually.⁸ In addition to these quantifiable benefits, installed measures improve the efficiency of business and industrial operations and several initiatives provide and support customized sustainable solutions to Connecticut's manufacturers, industries, businesses, and local and state governments.

During the 2019-2021 Plan's term, energy efficiency and demand management initiatives will result in electric lifetime savings of **9.0 billion kilowatt-hours** ("kWh"), natural gas lifetime savings of **28.3 billion cubic feet of natural gas** ("Bcf"), oil lifetime savings of **74.0 million gallons**, propane lifetime savings of **21.4 million gallons**, and a combined annual peak demand reduction of **233 Megawatts** ("MW"). During the 2021 program year alone, energy efficiency and demand management measures will help reduce annual consumption by **1.5 million MMBtus** (one million British thermal units) and over their lifetime, the measures will result in **72.1 million MMBtus** saved.⁹

Connecticut's energy efficiency and demand management programs protect the environment and public health through significant reductions in greenhouse gas ("GHG") emissions. During the 2019-2021 Plan term, the energy efficiency and demand management initiatives installed will result in emission reductions of **7.5 million tons of carbon dioxide** ("CO₂") and further reductions in other air pollutants, such as sulfur and nitrous oxides.

⁶ Public Act 98-28, *An Act Concerning Electric Restructuring*, Apr. 28, 1998, available online at: <https://www.cga.ct.gov/ps98/Act/pa/1998PA-00028-R00HB-05005-PA.htm>.

⁷ Public Act 05-01, *An Act Concerning Electricity and Energy Efficiency*, Jul. 21, 2005, available online at: <https://www.cga.ct.gov/2005/ACT/PA/2005PA-00001-R00HB-07501SS1-PA.htm>.

⁸ *2020 U.S. Energy and Employment Report* ("USEER"), Rel. Mar. 2020, produced by the Energy Futures Initiative ("EFI") in partnership with the National Association of State Energy Officials ("NASEO") and collected and analyzed by BW Research Partnership. For Connecticut specifically, the number of energy efficiency jobs increased from 35,597 jobs (March 2019) to 36,000 jobs (March 2020), a 1.1 percent increase. The USEER is available online at: <https://static1.squarespace.com/static/5a98cf80ec4eb7c5cd928c61/t/5e78134d0df723159b33043a/1584927569112/Connecticut-2020.pdf>.

⁹ Please note that the figures listed are site MMBtus and address only the energy saved at the meter level.

Table 1-1 (below) details the annual operating budgets and lifetime and annual energy savings forecasted for the 2019, 2020, and 2021 program years.

Table 1-1: 2019-2021 Savings & Benefits*

Year	Budgets (\$000)			Annual Savings						Lifetime Savings	
	Electric	Natural Gas	Total	Electric (GWh)*	Peak (MW)**	Natural Gas (MMcf)	Oil (gallons)	Propane (gallons)	CO ₂ Emissions (tons)	Lifetime Benefit (\$000)	Lifetime Savings (MMBtus)***
2019	\$185,395	\$52,903	\$238,298	305	48	718	982,912	232,819	208,702	\$924,563	25.4
2020	\$211,849	\$58,075	\$269,924	316	86	661	946,494	403,841	211,970	\$994,851	26.0
2021	\$198,206	\$52,550	\$250,756	224	99	561	1,005,677	412,017	162,768	\$779,831	20.7
TOTAL	\$595,450	\$163,528	\$758,978	845	233	1,940	2,935,083	1,048,677	583,440	\$2,699,245	72.1

*Abbreviation for Gigawatt hours.

**Savings include demand response programs.

***In millions of MMBtu (one million British Thermal Units).

1.1 2019 Awards, Recognitions, and National Conferences

Connecticut is a perennial top 10-ranking state in the American Council for an Energy-Efficient Economy's ("ACEEE") annual State Energy Efficiency Scorecard ("Scorecard"), which is directly attributable to the hard work and efforts of the state's energy efficiency stakeholders, the EEB, DEEP, and the Companies. In October 2020, Connecticut's energy policies and energy efficiency programs were ranked seventh in the nation by the 2020 Scorecard.

In April 2020, Energize Connecticut, in partnership with the Companies was recognized with the Environmental Protection Agency's ("EPA") 2020 ENERGY STAR® Partner of the Year Sustained Excellence recognition for 2019 program year accomplishments.¹⁰ The award was given for the Companies' promotion of ENERGY STAR-certified heating, cooling, and ventilation ("HVAC") and domestic water heating ("DHW") equipment through independent and big box retailers, manufacturers, equipment distributors, and contractors. These promotional efforts allowed the Companies to reach 95 percent of heating and water heating distributors in Connecticut and provide incentives for nearly 27,000 units.

The award also recognized Connecticut as a leader in the number of homes impacted through Home Performance with ENERGY STAR by improving 6,600 single-family and 2,350 multifamily residences. In

¹⁰ 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%29.pdf.

addition, incentives were given to more than 220 ENERGY STAR-certified new construction homes and apartments, achieving a significant energy savings of more than two million kWh. The EPA recognized Energize Connecticut and the Companies in the adoption of the Home Energy Score and technical and financial support enabling customers to track their building's energy performance in Portfolio Manager[®] and obtain ENERGY STAR certification.

In August 2020, the Companies participated in the 2020 ACEEE Summer Study proceedings and several of the Companies' employees submitted and presented technical papers regarding Connecticut's energy efficiency programs and demand management initiatives.

1.2 Response to the COVID-19 Pandemic

1.2.1 Immediate Impacts

In mid-March 2020, the Companies, the EEB, and DEEP had to quickly shift gears with the onset of the COVID-19 pandemic. On March 17, 2020, the Companies informed DEEP of the suspension of in-home and on-premises services due to the pandemic until March 31, 2020. On March 20, DEEP held a Public Input Session, and the suspension date was changed to April 22, 2020, based on Executive Order 7H which prohibited non-essential work in homes and businesses.¹¹ All in-home and on-site energy efficiency services at residences, businesses, and municipalities were put on hold through mid-June 2020, resulting in a significant impact on customers, contractors, the Companies, and the goals set forth in the 2020 Plan Update and 2019-2021 Plan.

The resumption of energy efficiency work which could be safely implemented began in June 2020. This return to work was based on regional, state, and federal communications and science-based guidance. Though on-site services were temporarily halted for a three-month period, the Companies were able to offer some energy efficiency services, including: (1) online pre-assessments and audits, (2) upstream offerings and instant rebates, (3) mail-in rebates, (4) active demand response programs, (5) trade ally-driven incentives, and (6) allowed restricted services on an exterior/unoccupied space of a home or business.

The pandemic-related impacts on Connecticut's energy efficiency and demand management programs will continue into the 2021 term, and will affect the Companies', the EEB's, and DEEP's planning for the next triennial filing—the 2022-2024 Conservation & Load Management Plan.

1.2.2 Five-Phase Response

In response to the pandemic, the Companies established a five-phase response to maintain progress in attaining energy savings, reducing GHG emissions, and supporting Connecticut's energy efficiency

¹¹ Executive Order 7H, *Protection of Public Health and Safety During Covid-19 Pandemic and Response-Restrictions on Workplaces for Non-Essential Businesses, Coordinated Response Effort*, issued Mar. 20, 2020, available online at: <https://portal.ct.gov/-/media/Office-of-the-Governor/Executive-Orders/Lamont-Executive-Orders/Executive-Order-No-7H.pdf>.

workforce. They include: (1) Health and safety, (2) Engage (workforce development), (3) Innovate (new channels and program offerings), (4) Plan (creating a pipeline of energy efficiency work), and (5) Install (increased incentives).

Phase 1: Health and Safety

In response to the COVID-19 pandemic, the number one priority for the Companies was the health and safety of their customers, employees, and contracted vendors' workers. In April and May 2020, the Companies hired a third-party health and safety expert to develop Health & Safety Guidelines ("H&S Guidelines") for all vendors working in Connecticut weatherization programs with the principal intention of protecting customers and contractors' workers from the adverse impacts of COVID-19.¹² The H&S Guidelines are intended to mitigate the spread of the virus through the use of personal protective equipment ("PPE") and other protective strategies.

On May 14, 2020, Conservation & Load Management ("C&LM") vendors that have contracts with the Companies participated in a four-state virtual health and safety training developed and implemented by a third party with expertise in health and safety protocols. The Companies retained the same third party to develop quality assurance and compliance ("QA/QC") procedures for field technicians. The third party monitored the first several jobs performed in the field for quality compliance and developed a written checklist for C&LM vendors that have contracts with the Companies. These QA/QC procedures are still in force in the field for all contracted C&LM vendors.¹³

In addition to the H&S Guidelines, the Companies requires all C&LM vendors providing in-home and on-site services to comply with DEEP's COVID-19 Health and Safety Protocols for Connecticut C&LM and Weatherization Programs ("DEEP Protocols"), dated June 11, 2020. The DEEP Protocols were distributed to all energy efficiency contractors on June 12, 2020. As a result of conversations with C&LM vendors about procuring all necessary PPE and the additional processes and procedures necessary to comply with both the H&S Guidelines and DEEP Protocols, the Companies agreed to provide additional cost-reimbursement payments.

It is most likely that the Companies, energy efficiency contractors, and program inspectors will have to comply with the H&S Guidelines and DEEP Protocols well into the 2021 program year. The Companies' staff plan to continue to maintain an open dialogue with C&LM vendors and their QA/QC inspection contractors to determine adherence and/or compliance concerns, as well as any issues with the procurement of PPE.

¹² The H&S Guidelines were developed by Environmental Health and Engineering, Inc. H&S Guidelines and training materials are available online at: <https://www.dropbox.com/sh/u1uah9gewnl4gcf/AACH8r1WE0fuhXyAVs-MYmiCa?dl=0>. The weatherization guidelines reviewed in the May 14, 2020 training should be viewed as minimum guidelines and are required for all contracted vendors working in Connecticut weatherization programs.

¹³ Please note that these QA/QC procedures were still in place as of the filing of this 2021 Plan Update on Nov. 1, 2020.

Phase 2: Engage

During the on-site work moratorium, the Companies coordinated online workforce training options and education funds across their multi-state territories and with other state Program Administrators to deliver multiple skillset workshops and trainings to the contractor community in the state.

Residential Workforce Training

The Companies and other State Program Administrators established two phases to the online workforce training for Residential C&LM vendor staff, with Phase 1 consisting of six online trainings ranging from introductory-level classes to more advanced-level training opportunities. During Phase 1, C&LM vendors' office and field staff could attend up to two (2) trainings, including:

- **Office Staff:** Building Performance Institute (“BPI”) Building Science Professional; and
- **Field Staff:** Occupational Health and Safety Administration (“OSHA”) Attics and Crawl Spaces, BPI Building Analyst, BPI Building Envelope, BPI Infiltration and Duct Leakage, and ResCaz 3D Combustion Appliance Safety Simulation.

As part of Phase 2, the State Program Administrators evaluated Phase 1 course participation and feedback to inform how courses offered during Phase 2 were developed and offered. Residential C&LM vendor staff had the opportunity to enroll in courses offered through Phase 1 that they had not been able to attend.¹⁴ In addition, BPI certification opportunities were also implemented.

Commercial & Industrial Workforce Training

For the Commercial and Industrial (“C&I”) sector, the Companies divided online training into two phases for C&I C&LM vendor staff. Courses were conducted by either the Design Lights Consortium (“DLC”) or the Northwest Energy Efficiency Collaborative (“NEEC”) through its Building Operator Certification (“BOC”) training platform and included:

- **Lighting and Lighting Controls:** Networked Lighting Controls and BOC – Efficient Lighting Fundamentals.
- **Buildings:** BOC-Indoor Environmental Quality, BOC-Water Efficiency, BOC-Renewable Energy, BOC-Smart Buildings Technologies and Practices, and BOC-Operation and Maintenance Practices for Sustainable Buildings.
- **HVAC Systems:** BOC-Energy-Efficient Operation of Building HVAC Systems and BOC-Commissioning and other Tune-Ups.

¹⁴ During Phase 1, the Companies placed a cap of two courses for Residential C&LM vendor staff.

- **Other Trainings:** BOC-Measuring and Benchmarking Energy Performance, BOC-Common Opportunities for Low-Cost Operational Improvement, BOC-Communication and Occupant Engagement, and BOC-Diagnostic Tools.

Similar to the Phase 2 offerings for Residential C&LM vendors, the C&I Phase 2 trainings also included additional opportunities for staff to attend trainings not taken during Phase 1 implementation.

Phase 3: Innovate

To meet the challenges of the pandemic, the Companies, in collaboration with DEEP and the EEB, worked to create innovative solutions and generate demand for energy efficiency and demand management programs. The Companies issued progress payments for measures installed in partially-completed projects and extended and/or relaxed deadlines for processing rebate applications. Another innovative solution included offering energy-saving kits and online marketplace bundles to Residential customers at low- to no-cost. United Illuminating also offered online energy-saving product bundles to C&I customers.

In addition, the Companies integrated a new offering into the Residential and C&I Energy Efficiency Portfolios—the Virtual Pre-Assessment. A Virtual Pre-Assessment allows contractors to visually assess the energy needs of a home or business remotely and determine next steps once the technician is physically allowed to enter the building. For more information about Virtual Pre-Assessments and their continued implementation in the Home Energy Solutions and Small Business Energy Advantage programs in 2021, please see Chapter Two.

The Companies have long recognized that financing mechanisms encourage Residential and C&I customers to invest in deep energy-saving projects. In response to the pandemic, the Companies moved to push energy efficiency loan deferrals for 90 days for customers enrolled in the Home Energy Solutions Payment Plan and Energize CT Heating Loan and moved loan deferrals up to six months for Small Business Energy Advantage loan customers.

Phase 4: Plan

For this phase, the Companies supported the creation of a robust pipeline of energy efficiency projects to ensure that the contractor community was back to work once on-premises activities were allowed. For the Residential Energy Efficiency Portfolio, the Companies reviewed and approved projects, short of performing in-home services, and implemented enhanced incentives for Residential energy-saving measures, including insulation and heat pumps. For the C&I Energy Efficiency Portfolio, the Companies also implemented enhanced incentives and increased project caps for measures, including comprehensive C&I project incentives (two or more end uses that do not include lighting) and high-performance lighting/lighting control measures. The Companies also initiated a plan for post COVID-19 activities, including marketing efforts and implementing additional limited-time incentives.

Phase 5: Install

To encourage the adoption of energy efficiency measures in the Residential Energy Efficiency Portfolio, the Companies established temporary Residential incentives, including for Home Energy Solutions program add-on measures (e.g., insulation), Multifamily Initiative measures, high-efficiency windows, heat pumps, and appliance recycling. The Companies temporarily increased C&I incentives to both stimulate project activity and encourage comprehensive energy-saving projects.

Though the implementation of these COVID-19 phased responses was challenging, the Companies anticipate that the actions taken helped to diminish the negative effects of the on-premises moratorium and that energy efficiency program participation and savings will increase again throughout the 2021 program year.

1.3 2019-2021 Plan Priorities

During the 2021 Plan Update term, the Companies will implement modest program enhancements and modifications to the Residential, C&I, and Workforce Development, Education, and Community Outreach Portfolios. These changes will allow the Companies to lead the programs toward greater efficacy while also continuing to drive energy savings, reductions in GHG emissions and other air pollutant emissions, and increased economic benefits. These programmatic enhancements and modifications are further detailed in Chapter Two: 2021 Plan Updates.

Energy efficiency is the most cost-effective and reliable energy resource for Connecticut's customers, policymakers, program administrators, and stakeholders. The Companies remain committed to meeting the 2019-2021 Plan's priorities, which are detailed in Table 1-2 on the next page.

Table 1-2: 2019-2021 Plan Priorities

Priorities	Residential	Commercial & Industrial	Workforce Development, Education & Community Outreach
1: Advance State Energy and Environmental Policy Goals	<ul style="list-style-type: none"> Evaluate consistency of Cost-Effectiveness Tool with National Standards Practice Manual (“NSPM”) framework. Support strategic adoption of heat pump technologies. Offer all-electric package for new construction market. Deliver energy efficiency services to all fuels. Deliver 1.6 annual MMBtu savings, or equivalent megawatt-hours, for all fuels combined by 2020. 	<ul style="list-style-type: none"> Evaluate consistency of Cost-Effectiveness Tool with NSPM framework. Support strategic adoption of heat pump technologies. Promote HVAC Strategy. Deliver energy efficiency services to all fuels. Deliver 1.6 annual MMBtu savings, or equivalent megawatt-hours, for all fuels combined by 2020. 	<ul style="list-style-type: none"> Offer EPA Portfolio Manager (“EPA PM”) training.
2: Offer Tailored Solutions for Market Segments While Ensuring Equitable Distribution	<ul style="list-style-type: none"> Connect energy efficiency to renewables in new construction market (Zero Energy Challenge, Solar PV Readiness Checklist). Research and target underserved customers and market sectors. 	<ul style="list-style-type: none"> Identify/target market sectors. Strengthen trade ally networks. Implement new Business Energy Advantage (“BEA”) program (200-500 kW). Serve as primary informational conduit for energy efficiency, renewables, and sustainability projects. Shift rebates upstream to distributors to drive energy efficiency in specific market sectors (e.g., restaurants = commercial kitchen equipment). Research and target underserved customers and market sectors. 	<ul style="list-style-type: none"> Offer direct trainings for businesses/municipalities: Certified Energy Manager (“CEM”), BOC, and EPA PM. Conduct <i>eesmarts</i> outreach/teacher training to underserved K-12 communities.
3: Focus on Direct Savings to Customers	<ul style="list-style-type: none"> Ensure funding directed toward core-saving solutions (Retail Products, HVAC/DHW, Home Energy Performance Services, Behavioral-Based Strategies and New Construction, Additions & Major Renovations). 	<ul style="list-style-type: none"> Ensure funding directed toward core-saving programs: Energy Conscious Blueprint, Energy Opportunities, Small Business Energy Advantage (“SBEA”), BEA, and Business & Energy Sustainability. 	<ul style="list-style-type: none"> Develop technical training courses for technical schools and community colleges.
4: Develop and Maintain a Sustainable Workforce	<ul style="list-style-type: none"> Provide ongoing training for Home Energy Performance vendors. Coordinate training w/HVAC and DHW equipment contractors, manufacturers, and distributors. Offer building code trainings. 	<ul style="list-style-type: none"> Offer trainings to support Advanced Lighting and HVAC Strategy. Offer training through Business & Energy Sustainability solution Offer building code trainings. 	<ul style="list-style-type: none"> Develop technical training courses for technical schools and community colleges. Offer trainings for businesses and municipalities (CEM, BOC & EPA PM).
5: Continuous Commitment to Deliver Comprehensive Energy Efficiency Strategies	<ul style="list-style-type: none"> Offer tiered incentives for multi-measure/multi-end use comprehensive projects. Offer ENERGY STAR Retail Products Platform. Offer Appliance Recycling program. Shift additional rebates upstream for residential HVAC and DHW equipment. 	<ul style="list-style-type: none"> Offer tiered incentives for multi-measure/multi-end use comprehensive projects. Strategic Energy Management (“SEM”)/ISO 50001 and promote a SEM cohort approach. Promote Advanced Lighting Strategy. Promote HVAC Strategy (incl., HVAC Modernization Demonstration). Explore offering 5-year loan terms to encourage comprehensiveness. Strengthen trade ally networks. Shift rebates upstream to distributors to drive energy efficiency in specific market sectors. 	<ul style="list-style-type: none"> Offer direct trainings for businesses and municipalities (CEM, BOC and EPA PM). Develop technical training courses for technical schools and community colleges.
6: Implement Effective Demand Reduction Strategies	<ul style="list-style-type: none"> Evaluate and implement Residential Demand Reduction Strategies. 	<ul style="list-style-type: none"> Evaluate and implement C&I Demand Reduction Strategies 	
7: Continue to Explore and Implement Financing Options	<ul style="list-style-type: none"> Explore financing options to address health and safety barriers for Home Energy Performance solutions (HES, HES-Income Eligible and Multifamily). 	<ul style="list-style-type: none"> Introduce new SBEA recapitalization strategies to leverage EE funds w/private capital. Offer SBEA-modeled financing for new Business Energy Advantage program. 	

Priority One: Advanced State Energy and Environmental Policy Goals

For the 2021 program year, the Companies remain focused on maximizing energy and cost savings for customers through cost-effective energy efficiency and demand management programs, services, incentives, and outreach efforts. This focus will result in significant environmental, public health, and economic benefits for the state’s residents, municipalities, and businesses, as well as advance the state’s energy policy and GHG emissions reduction goals laid out in the 2018 CES.

The 2020 program year was the first year that the state of Connecticut was legislatively required to reduce energy consumption by 1.6 million MMBtus or “the equivalent megawatts of electricity,”¹⁵ annually each year through calendar year 2025.¹⁶ During the 2021 program year, the Companies remain committed in helping the state deliver 1.5 MMBtus in annual energy savings (or equivalent in megawatt-hours) for all fuels combined. See Table 1-3 below for projected MMBtu savings goals for the 2019-2021 Plan term. Although 2021 is below the annual goal due to a combination of program factors (i.e., reduced saving in Large C&I programs, reduced Retail Lighting program budgets and savings, etc.), the annual average energy savings of 1.8 million MMBtus over the 2019-2021 Plan term exceeds the legislative requirement of 1.6 million annual MMBtus.

Table 1-3: 2019-2021 Plan MMBtu Savings*

	2019	2020	2021	Three-Year Average
Legislative Goal ¹⁷	1.6	1.6	1.6	1.6
Companies’ Goal	1.9	1.9	1.5	1.8
*In millions of MMBtu.				

Priority Two: Offer Tailored Solutions for Market Segments while Ensuring Equitable Distribution

During the 2021 program year, the Companies will reinforce their commitment to researching and targeting underserved customers and market sectors to ensure the equitable distribution of energy efficiency and demand management programs to all Connecticut customers. These key market

¹⁵ 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 2020 Plan Update, the 2021 Plan Update, and the 2019-2021 Plan use “megawatt-hours” when citing PA 18-50. Please note that the figures listed are site MMBtus and address only the energy saved at the meter level.

¹⁶ Public Act 18-50, § 8. Note that the MMBtu savings to meet the state policy goal can come from the electric or natural gas programs, and therefore can include savings from electric, natural gas, fuel oil, and propane measures, similar to the multiple fuel savings reporting in the EEB’s Annual Legislative Report which is filed on March 1 of every year. All EEB Annual Legislative Reports can be found online at: <https://www.energizect.com/connecticut-energy-efficiency-board/about-energy-efficiency-board/annualreports>.

¹⁷ Public Act 18-50, § 8.

segments will continue to include income-eligible customers, manufacturers, small and medium-sized businesses, and multifamily building owners and tenants.

On September 3, 2020, DEEP launched an Equitable Energy Efficiency proceeding to define equity in the context of energy efficiency and demand management programs within the agency's purview. In addition, DEEP wants to expand participation in energy efficiency programs of disengaged Residential and C&I customers within distressed cities or towns. The Equitable Energy Efficiency proceeding will also explore whether all C&I 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. The Companies will follow this proceeding closely and work with DEEP, the EEB, and other stakeholders to implement any proposed actions or program modifications.

In 2020 and continuing throughout the 2021 program year, the Companies will begin to focus on environmental justice and ensuring that disengaged and hard-to-reach communities across the state have equitable access to, and participate in, energy efficiency and demand management programs. In addition to its economic benefits, energy efficiency is a driver of improved health and living conditions in Residential and Multifamily buildings. This includes improving indoor air quality and reducing exposure to extreme hot/cold temperatures and pests. Throughout 2021, the Companies will work and collaborate with community-based organizations to become informed regarding racial, cultural, and socioeconomic barriers to energy efficiency and how these hurdles can be addressed through community engagement and campaigns.

Throughout the 2021 program year, the Companies' C&I Energy Efficiency Portfolio will continue to tailor energy efficiency solutions to the 10 targeted market segments identified in the 2019-2021 Plan.¹⁸ In addition, the Companies will also target the agricultural market segment. In 2021, the Companies will continue to utilize market segmentation research to better understand what energy-efficient measures, process improvements, financing mechanisms, market actions, and technical support would best meet each customer's business needs. More information is provided in Chapter Two: Plan Updates.

Priority Three: Focus on Direct Savings to Customers

As noted in Section 1.3, the Companies offered increased incentives to mitigate the negative impacts of the pandemic on energy efficiency and demand management program savings and participation. During the 2021 program year, the Companies will maintain increased incentives for water and air-source heat pumps, insulation, and windows to drive energy savings and program participation. Through June 30, 2021, the Companies will continue to offer increased incentives for energy-efficient

¹⁸ 2019-2021 Plan at 153-186. Commercial market segments include: retail stores, restaurants, commercial real estate, hospitality, state and municipal government, hospitals and healthcare facilities, higher education, and information, communications & technology. Industrial market segments include: distribution, fulfillment centers & warehousing, utilities and transportation, manufacturing, and aerospace and defense.

measures offered through the Residential and C&I Energy Efficiency Portfolios. A list of COVID-19 related items implemented is reflected in Appendix C of this filing.

During the 2021 program year, the Companies will direct energy efficiency funds toward the following core energy-saving solutions:

- **Residential Energy Efficiency Portfolio:** Consumer Products, HVAC and Domestic Hot Water Equipment, Home Performance Services (market rate and income-eligible), Behavioral-Based Strategies, and Active Demand Reduction Strategies.
- **C&I Energy Efficiency Portfolio:** Energy Conscious Blueprint, Energy Opportunities, Small Business Energy Advantage, Business and Energy Sustainability, and Active Demand Reduction Strategies.

Priority Four: Develop and Maintain a Sustainable Workforce for Connecticut

The Companies recognize the need to develop and maintain a skilled sustainable workforce in order to meet the state’s energy efficiency goals, reduce GHG emissions, generate energy savings, and directly and indirectly create local and regional jobs. In 2020, the Companies began to work with other program administrators in the Northeast region to develop a long-term Workforce Development Strategy and also conducted multiple certification trainings during Phase 2 of their response to the pandemic. These COVID-19 trainings and certification programs are still available to contractors even though on-premises work has commenced again.

During the development of the Workforce Development Strategy, the Companies will continue to develop and implement trainings and activities for the current energy efficiency workforce, including contractors, distributors, manufacturers, Community Action Agencies (“CAAs”), home builders, municipal facility managers, and retailers on high-efficiency equipment and design. As the Workforce Development Strategy is developed, the Companies will introduce and/or modify contractor trainings to align with research and best practices design. In addition, the Companies will look for more efficient ways to provide virtual trainings to the state’s current and future employees of energy efficiency contractors, trade allies, and vendors.

In 2021, the Companies will look to increase the diversity of the state’s contractor community through workforce development efforts to support women, minorities, and people who speak English as a second language in seeking energy efficiency careers. Workforce development shows career paths to a wide audience and equity measures bridge the gap between minority and majority groups. For example, the Companies can develop internship, apprenticeship, or job placement programs that connect recently trained individuals in entry-level jobs with weatherization and HVAC contractors while also providing mentoring and support for career advancement. This aspect of procedural equity can be measured by the number of individuals placed in internships, apprenticeships, and entry-level jobs and

the number of individuals retained in the workforce once the term of their employment is complete. Measurable outcomes that could indicate how an employer is performing in its diversity, equity, and inclusion initiatives could include increased representation of identified groups (in the workforce and in supervisory roles), improved employee satisfaction survey scores and feedback, and an increase in employee retention.

Priority Five: Continuous Commitment to Deliver Comprehensive Energy Efficiency Strategies

For the 2021 Plan Update term, the Companies will continue to encourage “all cost-effective energy efficiency” in projects through the use of tiered and non-tiered incentive structures to promote multi-measure comprehensiveness projects in the Residential and C&I Energy Efficiency Portfolios.¹⁹ The Companies will continue to develop energy efficiency and demand management solutions to be modified in response to new legislation, federal regulations, changing marketplaces and market responses, worldwide pandemics, evaluation results, emerging technologies, and customer demands.

In 2020, the Companies’ Residential Energy Efficiency Portfolio began to offer an Appliance Recycling program²⁰ and shift additional rebates upstream for Residential HVAC and DHW equipment.²¹

Priority Six: Implement Effective Active Demand Reduction Strategies

Connecticut’s demand management strategies help reduce capacity prices and price spikes during seasonal demand peaks (summer and winter). In 2020, the Companies transitioned several Residential and C&I Active Demand Reduction Strategies from pilots to full-fledged programs, including the Window Air Conditioning (“A/C”) program which expanded and grew during the 2020 program year. For an update on the Companies’ Active Demand Reduction Strategies, see Section 2.6.

In 2021, CNG and SCG will launch a Natural Gas Demand Reduction pilot to test the feasibility of incentivizing both residential and C&I customers to provide net reductions of natural gas demand during peak gas demand days on the coldest days of the winter. In addition, the Companies will continue to promote cost-effective Active Demand Reduction Strategies for both the Residential and C&I Energy Efficiency Portfolios throughout the 2021 program year.

Priority Seven: Continue to Explore and Implement Financing Solutions

In 2020, the Companies worked with private third-party vendors and the Connecticut Green Bank to reintroduce recapitalization strategies that leverage private capital and to also extend loan term limits for local and state government customers to further encourage comprehensiveness in energy efficiency projects. Throughout the 2019 and 2020 program years, Eversource has offered its mid-sized C&I market customers zero percent and market-rate based financing through the Business Energy

¹⁹ Public Act 11-80 directed the Companies to deliver “all cost-effective energy efficiency” to customers.

²⁰ As discussed in the *2019-2021 Plan* at 39.

²¹ As discussed in the *2019-2021 Plan* at 42-43.

Advantage program. During the 2021 program year, the Companies will continue to offer these financing solutions to encourage cost-effective energy efficiency projects.

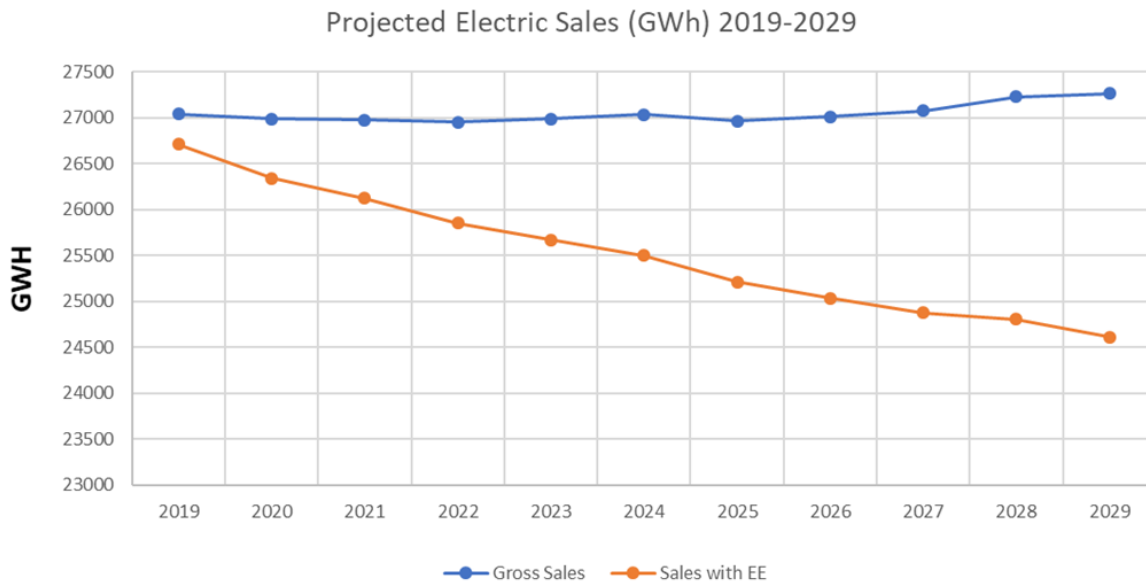
1.4 Energy Savings

For 20 years, Connecticut’s energy efficiency and demand management programs have generated significant energy savings (annual and lifetime) for Connecticut’s residents, municipalities, and businesses. Since the 2000 program year, the Electric Companies’ energy efficiency programs have achieved **6,674** annual GWh and **77,996** lifetime GWh savings. In addition, the Natural Gas Companies have also helped customers realize **6,292** annual MMcf and **93,584** lifetime MMcf savings.

1.4.1 Electric Savings

During the 2019-2021 term, the Companies expect to achieve **845** annual GWh savings and **1,940** annual MMcf savings, enough to power **129,646** homes for one year. The projected electric savings (in GWhs) resulting from the Companies’ energy efficiency programs are depicted in Figure 1-1 below. This graph clearly indicates how energy efficiency is a valuable resource for the state as it will help “flatten” electricity consumption in Connecticut over the next few years. The blue line (Gross Sales data) shows the forecast of how electric consumption would increase unchecked by energy efficiency programs. The red line (Energy Efficiency data) reflects how electricity consumption is forecasted to decrease due to Connecticut’s energy-saving programs.

Figure 1-1: Projected Electric Sales versus Electric Sales with Energy Efficiency (2020-2029)²²



²² Eversource source data is available online at : https://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2018_2019/f2018/transmission-distribution/forecast_2018_eversource_energy_20180301.pdf. United Illuminating source data is available online at: https://www.ct.gov/csc/lib/csc/pendingproceeds/forecast_2018_2019/f2018/transmission-distribution/forecast_2018_ui_20180301.pdf.

During the 2019-2021 term, Connecticut’s energy efficiency and demand management programs will reduce electric consumption by approximately **1.1** percent and will also reduce cumulative annual peak demand by over **212 MW**. Table 1-4 provides a summary of projected annual savings from the Electric Companies’ EE programs in the 2019, 2020, and 2021 program years and the percentage of electric sales.

Table 1-4: Electric Companies—Summary of Planned Annual Savings and Percentage of Sales

Companies	2019			2020			2021			2019-2021		
	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)	20,750	246.8	1.19%	20,656	250.4	1.21%	20,270	182.5	0.90%	61,676	679.6	1.10%
United Illuminating	5,015	58.6	1.17%	4,869	65.5	1.30%	4,789	41.5	0.87%	14,673	165.6	1.13%
TOTAL	25,765	305.5	1.19%	25,525	315.9	1.24%	25,059	223.9	0.89%	76,349	845.2	1.11%

1.4.2 Natural Gas Savings

The projected annual savings from the Natural Gas Companies’ energy efficiency programs and percentage of natural gas sales are shown in Table 1-5. In 2021, the Companies will utilize the following strategies to increase natural gas energy savings: (1) continue to focus on end-use equipment and market actions that attain natural gas energy savings and (2) continue to shift incentives upstream for natural gas end-use equipment, such as commercial kitchen equipment.

Table 1-5: Natural Gas Companies—Summary of Planned Annual Savings and Percentage of Sales

Companies	2019			2020			2021			2019-2021		
	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)	47,472	303.7	0.64%	45,084	267.5	0.58%	45,119	213.8	0.47%	137,675	785.0	0.57%
Connecticut Natural Gas	35,709	201.7	0.56%	36,817	194.3	0.53%	36,109	174.6	0.48%	108,635	570.6	0.53%
Southern Connecticut Gas	32,464	212.6	0.65%	32,855	198.7	0.60%	32,420	173.0	0.53%	97,739	584.3	0.60%
TOTAL	115,645	718.0	0.62%	114,756	660.5	0.57%	113,648	561.4	0.49%	344,049	1,939.9	0.56%

1.5 Funding Sources

Beginning in 2020, there are now two primary funding sources for Connecticut’s energy efficiency and demand management programs per Public Act 18-50’s modifications.²³ These include:

- **Electric Conservation Adjustment Mechanism (“CAM”).** One six-mill CAM for customers of the Electric Companies. The Electric CAM is a combination of two prior funding sources: (1) the prior three-mill systems benefit charge on customer electric bills and (2) the CAM minus the gross receipts tax (“GRT”) assessed on customer electric bills²⁴; and
- **Natural Gas CAM.** Contributions from natural gas customers (on firm rates) through the natural gas CAM minus the gross estimated tax (“GET”) assessed on customers’ natural gas bills.²⁵

Additional funding sources for the 2019, 2020, and 2021 program years 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”). Tables 1-6 and 1-7 summarize the statewide funding for the 2019-2021 Plan.

Table 1-6: Electric Program Funding Sources*

	2019 Eversource Electric Revenues	2019 UI Revenues	2019 Combined Total	2020 Eversource Electric Revenues	2020 UI Revenues	2020 Combined Total	2021 Eversource Electric Revenues	2021 UI Revenues	2021 Combined Total
Collections (Mill Rate)	\$76.5	\$15.8	\$92.4						
ISO-NE FCM	\$29.7	\$8.1	\$37.8	\$28.1	\$6.2	\$34.3	\$27.2	\$5.8	\$33.0
RGGI	\$8.9	\$1.7	\$10.6	\$10.2	\$2.6	\$12.8	\$10.6	\$2.6	\$13.2
RGGI Diversion	(\$0.4)	(\$0.1)	(\$0.5)						
CAM (net of GRT)**	\$57.9	\$14.1	\$72.0	\$131.2	\$33.5	\$164.7	\$123.4	\$28.6	\$152.0
Transfer to State General Fund	(\$21.4)	(\$5.4)	(\$26.8)						
TOTAL (EE revenues)	\$151.3	\$34.1	\$185.4	\$169.5	\$42.3	\$211.8	\$161.2	\$37.0	\$198.2

*In millions. Totals may vary due to rounding.

**2020 CAM includes \$23.2M in carry over from 2019; 2021 CAM includes \$34.0M in carry over from 2020.

²³ Public Act 18-50, § 9(d)(1). “Electric distribution companies shall collect a conservation adjustment mechanism that ensures the plan is fully funded by collecting an amount that is not more than the sum of six mills per kilowatt hour of electricity sold to each end use customer of an electric distribution company during the three years of any Conservation and Load Management Plan.”

²⁴ GRT is 7.05 percent for the electric CAM.

²⁵ The natural gas CAM is determined by using a GET accrual calculation of 4 percent for residential customers and 5 percent for C&I customers. Connecticut State Department of Revenue Services, *Ruling 99-3, Utility Company Gross Earnings Tax Residential Service*, available online at: <https://portal.ct.gov/DRS/Publications/Rulings/1999/Ruling-993-Utility-Company-Gross-Earnings-Tax-Residential-Service>.

Table 1-7: Natural Gas Program Funding Sources*

Natural Gas Energy Efficiency Revenues	2019 Conservation Adjustment Mechanism	2020 Conservation Adjustment Mechanism	2021 Conservation Adjustment Mechanism
Eversource Natural Gas Revenues	\$20.6	\$22.8	\$20.7
Connecticut Natural Gas Revenues	\$16.3	\$18.0	\$16.7
Southern Connecticut Gas Revenues	\$16.0	\$17.3	\$15.1
TOTAL (Energy Efficiency Revenues)	\$52.9	\$58.1	\$52.5
*In millions. Totals may vary due to rounding.			

1.6 Performance Management Incentives

For managing Connecticut’s energy efficiency and demand management programs and budgets, the Companies earn an annual performance target incentive that is tied to program specific-oriented metrics, including but not limited to: energy savings and net economic benefits. Performance management incentives (“PMIs”) are typically based on a percentage of program costs and this percentage will vary dependent on if targets and/or goals are met or exceeded.

In the Final DEEP Approval of the 2019-2021 Plan, the Companies were directed in Condition No. 6 to form a PMI Working Group which would be made up of members from the Companies, DEEP staff, and EEB Consultants to review the entire PMI program and to review primary and secondary metrics. The PMI Working Group was established in July 2019 and recommended several changes to the PMI program, including: (1) reinstating the Home Energy Solutions-Income Eligible program’s Spending Penalty Metric for program years 2020 and 2021 since funding is restored; (2) encouraging an increase in weatherization through a newly selected “Percentage of Homes Receiving Insulation Rebates” Metric; and (3) adjusting the Strategic Energy Management Metric pricing structure to be consistent with the existing structure.

In 2021, the Companies will include equity metrics for both the Residential and C&I sectors as part of the PMI Exhibits for each of the Electric Companies. In addition, the Companies have included evaluation metrics as part of the PMI Exhibits for the Electric and Natural Gas Companies.

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CHAPTER TWO: 2021 PLAN UPDATES

2.1 Overview

The Companies developed the 2021 Plan Update's program modifications and enhancements in collaboration with the EEB, the EEB Consultants, and DEEP. The 2021 Plan Update covers year three of the 2019-2021 Plan. During the 2021 program year, the Companies will continue to deliver comprehensive and tailored energy-saving solutions, researched and innovative workforce development strategies, and community-based engagement efforts.

The structure for the 2021 Plan Update is detailed below:

- **Chapter Two:** Describes the program modifications and enhancements for the Companies' 2021 Residential, C&I, and Workforce Development, Education, and Community Outreach Energy Efficiency Portfolios;
- **Chapter Three:** Details the Companies' benefit-cost screening tests;
- **Chapter Four:** Describes the third-party evaluation recommendations issued in 2020, challenges to the evaluation process due to the COVID-19 pandemic, and how the Companies plan to integrate the recommendations in the 2021 Plan Update's program offerings; and
- **Appendices A, B, and C:** Appendix A provides a summary of the 2021 Statewide Marketing Plan. Appendix B provides the Public Input Comments regarding the 2021 Plan Update and includes responses from the Companies and the EEB. Appendix C is a summary of DEEP's compliance orders for the 2019-2021 Plan and 2020 Plan Update, as well as a listing of the COVID-19 actions taken by the Companies and approved by DEEP.
- **Appendix D:** Provides Budget and Savings Summaries for the 2020, 2021, and 2022 program years based on the latest revenue forecasts and program modifications described in this 2021 Plan Update.

The Companies request approval from DEEP to implement the changes referenced in Chapters Two, Three, Four, and Five for the 2021 program year, as well as the budgets and savings tables detailed in Appendix D, with the understanding that the final budgets and savings reflecting year-end 2020 actual results will be filed on March 1, 2021.

2.2 Environmental Justice

As noted in the Priority Two section in Chapter One, in 2021, the Companies plan to focus program efforts on environmental justice and ensuring that disadvantaged communities, such as customers

within distressed communities have equitable access to Connecticut’s energy efficiency and demand management programs. This effort will be implemented in close coordination with the actions and recommendations made in DEEP’s Equitable Energy Efficiency proceeding initiated on September 3, 2020.

The environmental justice movement focuses on shaping policies and programs to the income, racial, and socioeconomic attributes of a particular community. Energy efficiency is recognized as a key tool in protecting the environment and reducing GHG and other air pollutant emissions, as well as protecting the public health through improved indoor air quality and health and living conditions in residential and multifamily buildings.

The benefits of energy efficiency can help improve the quality of life for disadvantaged and other hard-to-reach communities across the state. Energy-efficient improvements also reduce exposure to extreme hot/cold temperatures and pests, improving the quality of life for residents. In 2021, the Companies will continue to collaborate with community-based and environmental justice organizations to become informed regarding the racial, cultural, and socioeconomic barriers to energy efficiency and to better understand how these hurdles can be addressed through program modifications, community engagement, and tailored marketing campaigns.

2.3 Building Code Savings Attribution

The Companies are researching current approaches for building code and appliance standard savings attribution in Massachusetts, Rhode Island, and other states. In 2021, the Companies will begin to explore offering a codes and standards initiative as part of the new construction programs in the Residential and C&I Energy Efficiency Portfolios. The planned effort is broken into two categories: (1) improving compliance with building codes through trainings and other educational opportunities, and (2) developing and accelerating the adoption of more stringent codes and standards than would be required without the Companies’ involvement.

These two categories draw on one another because as codes become more stringent, the building community (e.g., owners, developers, contractors, designers, etc.) must understand how to interpret requirements in order to comply with building codes. The Companies have a long successful history of promoting high-efficiency construction measures and products to Connecticut’s building community. Therefore, the Companies are in an advantageous position to support both code and standard advancement, as well as compliance as they work closely with policymakers and trade allies. The goal of the initiative will be to require higher levels of efficiency in Connecticut, while also realizing energy savings that would have been lost when new construction and major renovations are not 100 percent compliant with the locally applicable building code.

The Companies’ plan is to introduce these efforts during the next three-year plan (2022-2024 Plan). In 2021, the primary focus of the Companies—in collaboration with the EEB, DEEP, and Evaluation

Committee—will be the creation of a detailed evaluation plan to measure and attribute savings from these efforts to the Companies. This would need to be developed in 2021 in order to inform the planning process for the 2022-2024 Plan. The intent will be to claim savings attributable to the Companies’ efforts in the 2022-2024 Plan. The potential roles that the Companies may explore include:

1. **Stretch Code Development Support:** The Companies would like to support the development of a stretch code that exceeds statewide minimum requirements and is adopted by local governments. A coordinated approach by the Companies would provide technical support for the development of a stretch code.
2. **Compliance Support for Base and Stretch Code:** The Companies will work with local builders, contractors, and building enforcement officials to increase the number of buildings complying with the locally applicable energy code. Activities could include targeted trainings, outreach and technical support in the form of code ambassadors and circuit riders, compliance documentation tool development, and review support.²⁶ Looking toward the 2022-2024 Plan, additional infrastructure might need to be developed to support the next iteration of requirements for new construction. In 2021, the Companies will begin the strategic identification of towns and cities that would benefit from code compliance support.
3. **Appliance Standards Development:** Having DEEP’s and the Companies’ support would help accelerate the development and adoption of targeted new appliance standards as the selected appliances and their advanced levels of efficiency start to become established as standard practice in the marketplace. The Companies would provide support to DEEP and the legislature, which may include written and verbal statements of support for cost-effective standards and the provision of technical resources necessary to assess potential appliance standards either at the state or regional/federal level.
4. **Base Energy Code Development:** The Companies will support the accelerated development and adoption of new energy codes with more stringent requirements and amendments. This may include proposing amendments that accelerate elements of future codes into current codes or proposing novel code language that is cost effective and saves energy.

2.4 Residential Program Changes

2.4.1 Home Energy Solutions

Virtual Pre-Assessments

During the 2021 program year, the Companies intend to continue providing Virtual Pre-Assessments (“VPAs”) as they strengthen customer trust of Home Energy Solutions (“HES”) program vendors going

²⁶ 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.

into the home. In addition to VPAs, the Companies will provide technician-led, customer-led, and computer-led solutions and plan to continue these offerings to reach a broad set of customers.

The technician-led VPA is most similar to the traditional in-home HES program assessment though it cannot provide diagnostics, testing, and direct install of energy efficiency upgrades that are normally completed. The VPA is conducted via a telephone or video conferencing tool, with the customer moving around the home and taking measurements. The HES technician documents their findings in the same data collection instrument typically used for in-home visits.

For the 2020 and 2021 program years, the primary objective of VPAs is to use them as a screening tool to gauge the needs of the home and assess the staffing and materials needed for an in-home HES assessment. Secondary objectives are to generate energy savings with installed measures and to screen for weatherization barriers.

Potential Bundles

The Companies may consider some combination of HVAC bundles (i.e., HVAC equipment + Wi-Fi thermostats + duct sealing + Active Demand Reduction program recruitment).

Increased Incentives and HES Co-Pay

During the 2021 program year, the Companies will continue to offer HES program services at the post-COVID-19 pandemic co-payment amount through the heating season of 2020-2021. The increased incentive levels for heat pumps, windows, and insulation will remain the same throughout the 2021 program year. The Companies plan on offering HES services at a \$50 co-payment starting on April 1, 2021.

Weatherization Barriers

In 2021, the Companies will continue to look for additional funding sources, such as the Vermiculite Zonolite Trust Fund and the Low-Income Home Energy Assistance Program (“LIHEAP”), to address weatherization barriers. The Companies and the EEB are working to establish a Weatherization Barrier Working Group as part of the EEB Residential Committee in late 2020 and early 2021 to review potential funding opportunities and identify next steps.

Financing

The minimum balance for the HES payment plan was decreased from \$1,000 to \$500. The HES financing was also modified to allow HES-Income Eligible program customers to take advantage of the HES repayment plan and windows were added as an eligible financing measure. These changes will remain in place for the 2021 program year.

2.4.2 HES-Income Eligible Program

Weatherization Barriers

During the 2021 program year, the Companies will look for additional funding sources to address weatherization barriers in income-eligible homes.

Increased Non-Energy Impacts (only for HES-Income Eligible)

In 2021, the non-energy impacts (“NEIs”) will be increased; resulting in the ability to pay for a greater percentage of add-on measure costs in the HES-Income Eligible program. This should result in more customers being able to get insulation at no cost, as well as lowering the customer contribution to purchase energy-efficient windows.

Distressed and Environmental Justice Communities

In 2021, the Companies will continue to work to reach low- and-moderate-income customers in distressed, environmental justice, and hard-to-reach markets to increase participation in the HES-Income Eligible program.

2.4.3 Heat Pumps

The Companies have noted that the installation of heat pumps across the state are forecasted to gain traction during the 2020 program year and they intend to report positive results by year end. In 2020, the Companies made changes to heat pump incentives in accordance with DEEP compliance items. Both mid-stream and downstream air-source heat pump rebates were increased to stimulate activity. Furthermore, the Companies increased the HES Heat Pump Pilot rebate to align the incentive offer with the Massachusetts’ energy efficiency programs and added an integrated control rebate as part of this fuel optimization pilot. The Companies also made significant changes to the ground source heat pump rebate. Rebate levels were increased with a higher rebate made available for customers who replace their fuel oil or propane heating equipment. The Companies also removed the system size limitation and made the rebate a standalone rebate consistent with other heating system rebates to better facilitate participation. The Companies plan to continue heavily promoting heat pumps throughout the 2021 program year.

The Companies also increased their single-family HES rebate for customers who convert from electric resistance heat to a qualifying heat pump. Furthermore, the Companies developed a plan and began offering increased incentives to multifamily building property owners who are converting from electric resistance to heat pumps.

2.4.4 Retail Lighting & Products

ENERGY STAR Retail Products Platform

For the 2021 Plan Update, the Companies are analyzing the inclusion of air purifiers and natural gas clothes dryers in the ENERGY STAR Retail Products Platform.

Lighting

As noted in the 2019-2021 Plan,²⁷ the 2020 Plan Update²⁸, and the 2019-2021 DEEP Approval,²⁹ the Companies closely monitor the retail lighting marketplace to determine how they set energy-saving goals and if they need to adjust the program designs of the Residential Energy Efficiency Portfolio. For the 2021 Plan Update, the Companies plan to continue their support of LED technology in retail outlets but will only support reflector lighting incentives in hard-to-reach markets.

2.4.5 Multifamily Initiative

In July 2020, the University of New Haven, DEEP, and the Companies submitted a proposal for a DOE grant to field validate and test new building envelope retrofit technologies in commercial and multifamily buildings in order to accelerate their market adoption. If the grant is awarded, this Enabling Envelope Technologies for Energy Efficiency (“EETEE”) project would “push the envelope” on building retrofit technologies to increase energy efficiency in commercial and multifamily buildings across the state. Based on program budgets and customer activity, the Companies will continue with the enhanced incentives through year-end 2021 and adjust incentives, as necessary.

2.4.6 Passive House Training (Residential New Construction)

In 2021, the Companies will partner with Passive House Connecticut to offer Passive House training to the residential new construction community, including architects, builders, contractors, designers, developers, engineers, estimators, financing agencies, general contractors, municipal officials, raters, tradespeople, and verifiers. The objective of the training is to support workforce development and help transform the energy efficiency and building construction industries. The Passive House training will provide up-to-date credentials from the Passive House Institute (“PHI”) and Passive House Institute US (“PHIUS”). The training will be modeled after the Mass Save® Passive House training with three training channels: (1) Lunch and Learns, (2) Building Science Workshops, and (3) Passive House Accreditations.

²⁷ *2019-2021 Plan* at 35-37.

²⁸ *2020 Plan Update* at 14-15.

²⁹ 2019-2021 DEEP Approval. This is DEEP’s Condition of Approval of the 2019-2021 Plan.

2.5 C&I Program Changes

2.5.1 New Construction

The Energy Conscious Blueprint program drives energy efficiency in the new construction, major renovations, and new equipment marketplace. For the 2019-2021 Plan, the Companies remain committed to promoting the integration of energy efficiency and renewable energy strategies, financing programs, and solutions into the program.³⁰ In 2019, the Companies observed that a number of Connecticut builders have achieved or have committed to constructing Zero Net Energy buildings. To facilitate a continued increase in the construction of Zero Net Energy buildings, the Companies supported conferences and explored code adoption strategies throughout the 2020 program year.

The Energy Conscious Blueprint program supports integrated design and whole-building energy modeling (“BEM”) at the feasibility phase and offer incentives for customers to incorporate energy reduction strategies through post occupancy. In 2021, the Energy Conscious Blueprint program will be redesigned as a transformative four-pathway offering to drive the new construction marketplace toward zero-energy buildings with low energy-use intensity (“EUI”) ratings.

By providing four pathways, the Companies hope to engage the entire market from the most ambitious design teams to the least and provide an avenue to help each customer succeed in making their operations more energy efficient. The four-pathway offering will include:

1. **Deep Energy Savings and Lower EUI.** The Companies will introduce a Deep Energy Savings and Lower EUI path designed to encourage new construction projects with a target of zero net energy or zero net emissions.
2. **Whole Building with Modeled Savings.** The Whole Building with Modeled Savings pathway is designed to provide intensive technical assistance and support for Large C&I new construction and equipment projects. Customers will be guided through the decision-making process in determining the correct energy-efficient measures or designs that are right for their business’ needs and priorities. Large C&I projects require a collaborative planning process that utilizes the expertise of architects, design teams, and contractors—often via a design charette. The Whole Building with Modeled Savings path will provide charette support, mid-design feedback, and guidance regarding setting EUI targets.
3. **Simplified Whole Buildings Worksheet Model.** The Simplified Whole Buildings Worksheet Model is being introduced for fast-paced design and build projects and will require simplified spreadsheets versus detailed energy models.

³⁰ 2019-2021 Plan, Priority Two at 12.

- 4. Systems and Measures.** The Systems and Measures pathway will focus on capture projects in the late design stages. This path will integrate existing prescriptive and custom incentives, and the Companies will provide technical assistance services typically not available for these fast-paced projects.

2.5.2 Virtual Commissioning Pilot (United Illuminating only)

In 2021, United Illuminating will launch a Virtual Commissioning pilot for small and medium-sized businesses. This pilot will utilize United Illuminating’s investment in Advanced Metering Infrastructure (“AMI”) technologies to help customers save energy despite any on-site restrictions to energy efficiency program implementation. Virtual commissioning will help these small and medium-sized business make Operations and Maintenance (“O&M”) improvements to their equipment and procedures.

A third-party commissioning consultant will review a customer’s AMI data to determine and analyze their energy load. This energy load analysis combined with a virtual audit of the business or facility will enable the Virtual Commissioning pilot consultant to give recommendations for low-cost or no-cost modifications to equipment and processes.

2.5.3 Small Business Energy Advantage & Business Energy Advantage

Virtual Pre-Assessments

During the 2021 program year, the Companies intend to continue providing VPAs through the SBEA and BEA programs. The technician-led VPA is most similar to the on-premises SBEA and BEA program audits, though it cannot provide the diagnostics, testing, and direct install of energy efficiency upgrades that are normally completed during a traditional assessment. The VPA does help technicians identify “easy” energy-saving opportunities that can be made once a vendor can physically go on site and perform the upgrades.

In 2021, the Companies intend to continue to deploy VPAs as a screening tool to gauge the needs of C&I customers, particularly microbusinesses, and assess the manpower and materials needed for an on-premises assessment. In mid-2020, the Companies collected narrative feedback from SBEA and BEA vendors and found that VPAs were well received as they generated cost efficiencies for vendors, particularly when working with microbusinesses.

Microbusiness Energy Advantage Pilot

In Quarter 4 of 2020, the Companies launched a Microbusiness Energy Advantage pilot to better address small businesses who need technical support and incentives to participate in energy-saving projects. The Companies recognize that Connecticut’s microbusinesses (typically less than 100 kW annual peak demand) are underserved as their percentage of savings relative to usage as a group are significantly less than larger C&I customers. The Microbusiness Energy Advantage pilot is designed to

provide adequate incentives for both customers and vendors to encourage higher participation rates by microbusinesses in the SBEA program.

Distressed and Environmental Justice Communities

In 2021, the Companies will continue to work with small businesses and microbusinesses in distressed and environmental justice communities and hard-to-reach markets to increase participation in the SBEA program.

2.5.4 Small Manufacturer Initiative

Small and large manufacturers are responsible for approximately 40 percent of annual electric consumption in the state and are the backbone to Connecticut’s economy. During the 2021 program year, in an effort to help small manufacturers save energy and stay in state, the Companies will launch a Small Manufacturer initiative. This initiative will focus on marketing all of 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 incentives. The C&I solutions promoted will include Energy Utilization Assessments (“EUAs”) and the Process Reengineering for Increased Manufacturing Efficiency (“PRIME”) initiative.

2.5.5 New Market Segment – Agriculture

During the 2021 program year, the Companies will include the agricultural market as a new target customer segment. The Companies will utilize market segmentation research to better understand what energy-efficient measures, process improvements, financing mechanisms, market actions, and technical support would best meet customers in the agriculture market segment. This market segment includes but is not limited to: large dairy operations, shade tobacco farms, vineyards, and hops farms.

2.5.6 HVAC Modernization Pilot

For the 2019-2021 Plan, 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 (“RFP”) for chillers and expanded the pilot in 2020 to include RFPs for rooftop units and boiler systems. The bids submitted for these RFPs by C&I customers and contractors have helped the Companies design more insightful incentive strategies and to determine market elasticity and demand for HVAC equipment and systems. In 2021, the Companies will add process measures, such as compressors, to the HVAC Modernization pilot.

In Quarter 4 of 2021, the Companies intend to make recommendations on how to make the HVAC Modernization pilot a permanent program for the 2022-2024 Plan.

2.5.7 C&I Heat Pump Pilot

The Companies will introduce a C&I Heat Pump pilot during the 2021 program year. The focus of this pilot will be to generate activity at the manufacturer level to increase adoption rates of heat pump technologies. In 2020, the Companies released an RFP for a service rebate partner and began to work with channel partners to promote upstream, midstream, and downstream rebates. For the 2021 program year, the Companies will design an incentive package for heat pumps and promote the technology at roundtables through channel partners.

2.5.8 Upstream Incentives

In 2021, the Companies will move all commercial refrigeration incentives upstream to increase adoption of these energy-efficient measures.

2.5.9 Delivered Fuel Savings

Historically, the C&I Energy Efficiency Portfolio has not directly targeted nor offered incentives for oil and propane savings. Small amounts of delivered fuel savings are generated as a benefit from the implementation of electric efficiency measures. In response to DEEP's 2020 Plan Update Condition of Approval Item No. 24 (Cost-Effectiveness Testing), the Companies will investigate offering C&I program incentives that explicitly target delivered fuel savings.

2.6 Active Demand Reduction Strategies

2.6.1 ADR Strategies (Eversource)

During 2019, the Companies began to implement Active Demand Response ("ADR") solutions to assess active demand reduction (kW) of each program, customer participation rates vs. opt-out rates, and customer engagement and satisfaction with the programs.

Eversource ADR Residential Strategies

In 2020, Eversource expanded its ADR solutions for Residential customers as described below.

- **Connected Wi-Fi Thermostats and HVAC Systems.** In 2019, Eversource transitioned its "Bring Your Own Device" ("BYOD") pilot into an open demand response program. The BYOD program incorporates the next generation of connected Wi-Fi thermostats to empower and engage Residential customers with demand response programs. Having successfully enrolled over 14,000 thermostats, and after two successful Summer event seasons, the program will continue in 2021.
- **Window A/C Controls.** Eversource is working with a vendor, who provides window A/C controls, to investigate how to design a demand response program around this technology,

while controlling costs and maintaining persistent savings. A consideration being discussed is incentivizing customer commitment to continued program participation. Eversource believes that if the challenges related to savings persistence and device connectivity discussed above can be overcome, these devices have a significant potential for savings. This is due to the segment of homes without central A/C that are not able to participate in a Wi-Fi thermostat demand response program. The program was launched in 2020 and will continue to enroll Residential customers in 2021. These resources are expected to participate in the 2021 ADR Summer Season.

- **Battery Storage.** In 2018 and 2019, Eversource began deploying Residential battery storage projects in Massachusetts and is actively pursuing cost-effective ways to integrate Residential battery storage into an ADR program in 2020. Eversource has issued a three-state RFP for demand reduction vendors for targeted technologies, including battery storage. Battery storage technology is envisioned as an optimal strategy, as it would allow customers to provide load reduction in several ways, as the technology can provide capacity in daily, targeted, and winter periods. The key findings from Massachusetts deployments were used to inform the Connecticut program as it was rolled out in 2020. With over 170 batteries enrolled, and following a successful Summer season, the program will continue in 2021. In 2021, Eversource will explore new ways to expand the program to include new battery partners and explore new customer incentive structures to promote growth.
- **Electric Vehicle (“EV”) Charger Control.** EV charging represents a growing load within Eversource’s Connecticut service territory and is a load with the flexibility needed to be part of a demand response offering. Research suggests that 80 percent of charging is done at residences and may be generally coincident with system peaks. In Massachusetts, Eversource currently has approval to offer EV Load Management as a research and development initiative during 2019-2021. Based upon the experience of the program in Massachusetts, the initiative was extended to Connecticut in 2020. In its first year the program enrolled 70 charging stations. The program will continue in 2021 and Eversource will seek to expand the offering to include other partners.
- **Direct Communication to the EV.** In 2020, the EV is still a small part of the U.S. transportation fleet, but technological vehicle and battery advancements, investments and local state policies are driving increased transportation electrification. To meet the challenges that the increased electrification of transportation will bring, Eversource has initiated several C&I and Residential R&D initiatives designed to learn about charging patterns and corresponding customer flexibilities to help manage the increase in demand patterns. The proposed innovation is a plug-and-play EV load profiling and shifting program to better understand EV load on the grid and shift EV charging to more desirable times while reducing the cost of charging for the EV customers.

This initiative will be deployed simultaneously in Connecticut and Massachusetts. It will enroll EV customers to participate in the *ConnectedSolutions* demand response program and will collect data on their driving and charging behaviors to evaluate demand response needs for EV charging. Customers will receive notifications designed to promote charging in periods more favorable to the grid.

Eversource C&I ADR Strategies

The integration of demand response offerings with energy efficiency programs is critical to the success of Eversource's C&I ADR programs. This includes using energy efficiency program delivery channels and measures as a seedbed for demand response technologies, such as HVAC controls, building and energy management systems, lighting controls, and others. The C&I Energy Efficiency Portfolio, using Eversource sales representatives, provides an effective path for customer recruitment by adding ADR Strategies to the suite of solutions and offerings discussed with customers. For 2021, several additional C&I Demand Response Pilot findings will continue to inform specific strategies and technologies, including:

- Different technologies are suited to different dispatch strategies. For instance, batteries and thermal storage can reduce load on a daily basis without impacting customer comfort or operations.
- Manual curtailment is much less expensive than other forms of active demand reductions.
- Daily dispatch yields three times greater avoided energy supply cost value than targeted dispatch over the course of a season.
- Customers do not accept demand reduction solutions if they do not understand the value proposition, or if they must cede too much control over their systems—even if a solution requires little capital expense to the customer.
- More training is needed for sales representatives to explain the value proposition and technologies to customers.

Based in part on these findings, Eversource will continue to develop C&I demand management offerings during the 2021 program year (see Table 2-1).

Table 2-1: C&I ADR Strategy Offerings, 2019-2021

Targeted Dispatch	Daily Dispatch	Winter Dispatch
<ul style="list-style-type: none"> • 3-8 events per summer • 3 hours per event • \$35/kW-summer (technology agnostic) • \$100/kW-summer (storage) • Typical dispatch strategies & technologies: <ul style="list-style-type: none"> ○ Usually, manual dispatch ○ Temperature setback ~3°F ○ VFD speed limiting ○ Early setback ○ Process changes ○ Generators ○ Combined heat and power ○ Lighting 	<ul style="list-style-type: none"> • 30 - 60 events per summer • 2-3 hours per event • \$200/kW-summer (storage) • Typical dispatch strategies and technologies: <ul style="list-style-type: none"> ○ Usually, automatic dispatch ○ Batteries ○ Flywheels ○ Thermal storage ○ Industrial freezers 	<ul style="list-style-type: none"> • 5 events per winter • 3 hours per event • \$25/kW-winter (technology agnostic) • \$50/kW-winter (storage) • Typical dispatch strategies and technologies: <ul style="list-style-type: none"> ○ Usually, manual dispatch ○ Snowmaking ○ Industrial processes ○ Generators

2.6.2 ADR Strategies (United Illuminating)

In 2021, United Illuminating will continue expanding its ADR solution offerings for Residential and C&I customers as described below.

United Illuminating Residential ADR Solutions

- **Smart Savers Rewards (Bring Your Own Thermostat).** Now in its third program year, Smart Savers Rewards is a direct load control program that supports electric system reliability. The Bring Your Own Thermostat (“BYOT”) is a subprogram of Smart Savers Rewards where Residential and small business customers provide their own Wi-Fi thermostat and enroll the device through designated providers. The BYOT initiative will continue in 2021.

The BYOT program allows United Illuminating to have remote controllability of a customer’s HVAC system via a connected Wi-Fi 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. BYOT events occur no more than six times per summer and once the event is over, the Wi-Fi 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.

Participants receive a \$25 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.

- **Wi-Fi Enabled Heat Pump Water Heaters (“HPWH”).** United Illuminating began conducting its Wi-Fi Enabled HPWH 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 HPWH 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 HPWHs. 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. HPWHs 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 HPWH units through the co-delivery of existing HPWH efforts to this demand response portfolio.

In 2021, United Illuminating will also look to deploy different demand response strategies to increase demand response event reductions above and beyond the current demand response strategy that is set by the HPWH manufacturer called “Eco Mode”. Other creative demand response 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 in an effort to better understand the market and its demand response potential.

- **Peak Time Rebate (“PTR”) Pilot.** Since the start of the PTR two-year pilot, United Illuminating has held three PTR events (one in the winter of 2018-2019 and two during the summer of 2019). As part of the PTR pilot, customer engagement is critical to the pilot’s event success. Customer engagement occurs through an “email journey” where each participant receives 3-4 customized e-mails (i.e., Appliance Load Disaggregation, Similar Homes Comparison, Opportunities to Save, and High Usage Alert) each month. Based on the past 12 months, the vendor has reported energy savings associated with just the customer email journey at 1.29 percent per participant and is based on 15-minute AMI data from participants (treatment group) compared to a similar control group. This level of energy efficiency savings is on par with most utility home energy report programs.

PTR event load reductions reported by the vendor over the last three events have shown minimal impact, have been inconsistent, or shown no trends throughout a typical three-hour event. Only 1 out of the 3 events yielded positive demand reductions, while no one event produced positive load reductions in all hours of an event. Summer participants decreased usage on average by 84 watts/event hour while winter participants increased usage by 126 watts/event hour. PTR programs are still early in their development stages and provide little and inconsistent demand reductions compared to other mature demand response options. More event data would be needed to produce statistically valid results for this PTR pilot. United Illuminating chose not to hold additional events in the winter of 2019-2020, prior to the contract term expiration with the vendor. This decision was made due to poor kW load reductions to date coupled with high vendor and customer incentive costs.

United Illuminating C&I ADR Solutions

- **C&I Auto Demand Response Program.** In 2020, United Illuminating’s targeted Auto Demand Response pilot transitioned to a full-fledged demand response program (“ADRP”) and was co-marketed to all qualifying C&I customers alongside with traditional energy efficiency programs and measures. The ADRP is designed to reduce electricity consumption during periods of peak use from May 1 to September 30 (capability period) and helps maintain system reliability in communities. In 2021, United Illuminating will continue to offer this program.

The ADRP is offered to all qualifying C&I customers who must have one or more of the following systems installed in their facility: (1) an Energy Management System (“EMS”), (2) a Building Management System (“BMS”), (3) a lighting control system, or (4) a Programmable Logic Controller (“PLC”). C&I customers work closely with United Illuminating and the program administrator, Honeywell, to identify non-critical and flexible loads and demand reduction strategies for each measure. Participating C&I customers must have curtailable load that they are willing to turn off or willing to reduce during a demand response event, such as a chiller/roof-top A/C, air handlers, fans, pumps, lighting systems, energy storage systems, and/or process controls. Customers must commit to a minimum of 50 kW of qualifying load reductions for a three-year period and have internet access and a United Illuminating 15-minute interval meter installed.

The customer receives ADRP event signals from United Illuminating through a Honeywell gateway installed on site that initiates customer-selected pre-programmed demand reduction strategies. The program calls up to 12 summer demand response events and 6 winter events annually, and events are no longer than two hours. Participating customers receive a 100 percent performance-based incentive which is calculated from the actual energy reduced during a demand response event. Qualifying customers can receive up to \$50 per kW.

Administered through Honeywell, the ADRP is co-delivered in conjunction with other C&I Energy Efficiency Portfolio offerings. The efficiencies of this co-delivery allow United Illuminating the ability to offer customers additional energy efficiency solutions to reduce system load, save energy, and earn performance incentives during demand response events.

Natural Gas Demand Response Pilots (new for 2021)

In 2021, CNG and SCG will launch several different natural gas demand response pilots to better understand natural gas demand reduction potential and customer receptiveness to creative and cutting-edge natural gas demand reduction strategies. These pilots will test the feasibility of incentivizing Residential and C&I customers to provide net reductions of natural gas demand during peak gas demand days on the coldest days of the winter.

- **C&I Natural Gas ADR Pilot.** In 2021, CNG and SCG will launch a Natural Gas ADR pilot for C&I customers utilizing its current Honeywell distributed resource management system (“DRMS”) to initiate demand response events, calculate baseline usage and event reductions, and determine incentives earned by each participant. The pilot will be marketed to all CNG and SCG Large General Service (“LGS”) and Medium General Service (“MGS”) customers with Daily Demand Service (“DDS”) who are currently not on an interruptible rate.

Participants will be required to have a minimum enrollment value of 50 Therms of Net Load Relief per gas day. CNG and SCG will work with C&I customers to implement a number of demand reduction strategies, including: pre-heating spaces, decreasing temperature-set points, decreasing plant water temperature, and suspending economizer outdoor air provisions. On the day of the natural gas demand response event, C&I customers are responsible for implementing their selected participation strategy as CNG and SCG will not have direct control of customer equipment and/or building control systems.

Incentives are 100 percent performance based and CNG and SCG will call up to 6 events per season on days when the outside average daily temperature is forecasted at 18°F or below.

- **Residential Natural Gas ADR Pilots.** In 2021, CNG and SCG will launch the following two Residential Natural Gas ADR 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.** The System Load Balancing pilot will incentivize CNG and SCG Rate RSH (Residential Heating) customers within specific low-pressure areas to provide net reductions of natural gas demand during a 24-hour period during a peak natural gas demand day. The ADR strategy behind the pilot is to address natural gas distribution system constraints. The pilot will be proactively marketed to Residential

natural gas customers in targeted areas and participating customers will receive a coupon code for a free Wi-Fi thermostat available through the UI Marketplace.

Participating customers will be responsible for the installation of the Wi-Fi thermostat and will not have the ability to opt-out of any ADR events. Participants will earn an end-of-winter-season incentive for their participation. CNG and SCG expect to call one event per season on a day when the outside average daily temperature is forecasted at 18°F or below. The length of the ADR event will be 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 will be setback by 4 degrees for 24 hours. **Note:** Temperature set points will not go below a minimum of 60 degrees.

- **Residential Direct Load Control (Natural Gas ADR Reductions).** CNG and SCG Rate RSH (Residential Heating) customers will be incentivized to provide net reductions of natural gas demand during a 2-4-hour period during a peak natural gas demand day. This solution's strategy is similar to the Smart Savers Rewards program offered to United Illuminating's electric customers. The Direct Load Control pilot will be conducted as an opt-in initiative and will target Residential natural gas customers with Wi-Fi thermostats.

The Direct Load Control pilot allows CNG and SCG to have remote controllability of a customer's natural gas heating system via connected Wi-Fi thermostat. During an event, a customer's thermostat will be setback by 3 degrees (with a preheat of 2 degrees for one hour prior). Customers will 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 expect to call up to 5 events per season on days when the outside average daily temperature is forecasted at 18°F or below. The average length of the ADR event will be 2 to 4 hours.

Results from the Direct Load Control pilot will be utilized to determine a much larger ADR strategy that would staff customer ADR events over a full 24-hour period.

2.7 Educate the Workforce and the Public

2.7.1 Educate the Workforce

During the 2021 program year, the Companies will work with an experienced vendor, other state program administrators, and energy efficiency stakeholders to train and recruit a qualified local and regional energy efficiency workforce. In addition, the Companies will leverage regional training efforts, best practices, and research to inform the workforce development strategy.

In 2021, the Companies will continue to focus resources, educational programming, and technical support to promote clean energy workforce development in the state and in the Northeast region.

These trainings will include the following topics: high-efficiency HVAC technologies and controls, refrigeration equipment and controls, advanced LED lighting and controls, whole-building design (C&I sector), code-plus initiatives, ADR strategies, and emerging technologies. Planned trainings include:

- **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 offices. These trainings will be offered in partnership with the CT Green Building Council.
- **Salesforce Training.** This will be a series of trainings regarding why sales training is important, different sales approaches to varied market segments, and sales in the age of COVID-19.

2.7.2 Educate the Public

Mobile Exhibit for Communities and K-12 Schools

On December 31, 2019, the Companies closed the Energize CT Center which provided hands-on, interactive educational programming and contained informative exhibits related to energy efficiency and other energy-related topics. To further their K-12 energy education and community outreach efforts in 2021 and beyond, the Companies issued an RFP in October 2020 for qualified companies and/or organizations to deliver transportation, promotional, and program management services related to the implementation of traveling exhibits and mobile learning experiences to Grades K-12 schools and other public venues across the state of Connecticut.

The RFP specifically looked for solutions and services that can deliver educational and engaging learning experiences regarding energy efficiency topics and that are transformative and engage adults, children, business owners, community leaders, and educators in their awareness of energy efficiency initiatives, including their significant cost savings, health benefits, and reduced environmental impacts. These entertainment-based and behavioral learning-based exhibits, programming, and learning experiences should inspire visitors to apply their newfound knowledge immediately to their real-life surroundings to drive positive changes and become energy efficiency advocates.

Focus on Community Engagement

In 2021, the Companies plan to approach community engagement utilizing two approaches to achieve desired results. In late 2020 and early 2021, the Companies plan to expand their engagement with communities across Connecticut by implementing an application process with pre-determined funding limits for any community groups working with a municipality to increase energy efficiency program participation. Once implemented, these community engagement approaches would focus on both Residential and small business customers.

The second approach would be the issuance of an RFP for specific, targeted outreach to populations that have historically had under-indexed participation rates.³¹

2.8 Customer Engagement Initiative (Eversource)

During the 2021 Plan Update term, Eversource will undertake behavioral-based marketing strategies to engage its electric customers in understanding how they consume energy in their homes and subsequently move them toward adoption of energy efficiency measures through the Residential Energy Efficiency Portfolio offerings.

2.8.1 Customer Engagement Initiative Marketing Objective

Eversource’s customer engagement initiative (“CEI”) is a streamlined approach to providing customers with data-driven insights and targeted recommendations to motivate behavior change and participation in energy efficiency programs. The initiative will leverage 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 July 2020, Eversource released an RFP to determine what types of customer engagement services and solutions are offered in the marketplace for consideration across its three-state service territory (Connecticut, Massachusetts, and New Hampshire). As of March 1, 2021, Eversource has evaluated the proposals in response to the RFP and selected and contracted with a vendor. The tools selected will enable Eversource to integrate customized usage insights and recommendations for applicable Energy Efficiency Fund programs more seamlessly into the overall customer experience and marketing efforts.

As the final pricing for license and professional service fees are being settled, Eversource is hopeful and encouraged that this RFP will provide cost savings for the customer engagement initiative. Eversource will work with DEEP and the EEB to determine which programs and initiatives the saved energy efficiency funds should be shifted to once the cost savings are determined for the 2021 program year and beyond. Alternative program allocations could include but are not limited to a municipal program, community outreach, and ensuring equitable distribution of Energy Efficiency Fund dollars to Connecticut’s underserved Residential and C&I customers.

2.8.2 CEI Marketing Design

The CEI 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 (such as a particular product or measure) based on what Eversource knows about them, their homes, and how they use energy, then designing a series of personalized

³¹ See Section 2.8.1 for a discussion of potential cost savings from new pricing for license and professional service fees from a recent RFP for a customer engagement initiative. In 2021, Eversource will work with DEEP and the EEB to determine which programs and initiatives the saved energy efficiency funds should be shifted to once the costs savings are determined for the 2021 program year and beyond. This could include a shift of funds to expand community outreach efforts.

communications and interactions over time to move customers along the desired path to energy efficiency.

The communications will include customized usage insights and recommendations delivered through traditional one-on-one outbound marketing channels (e-mail and possibly 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 (e.g., seasonal changes in temperature or after a customer receives a high bill).

In 2021, Eversource's CEI will focus primarily on Residential customers with learnings from those efforts and work applied to relevant C&I customer subsegments in the following years. During the 2021 program year, Eversource does not expect for its CEI to generate behavioral-based energy savings at a large scale for Energy Efficiency Fund programs. The focus of the CEI in the near term is to develop customized communication journeys that utilize behavior-based principles and an experimental design that allows for any generated savings to be evaluated and potentially claimed. The customer engagement initiative will be administered as a behavioral-based strategy within the Energy Efficiency Fund programs; however, the program's budgets will be located in the customer engagement/marketing portfolio as it is not expected to generate a large quantity of behavior-based energy savings for the first year of implementation.

CHAPTER THREE: BENEFIT-COST SCREENING

3.1 Overview

For the 2021 Plan Update, 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 2018 for New England³² (“2018 AESC”). The transmission and distribution (electric) avoided costs are based on studies conducted by the Companies in 2017.³³

The 2021 Plan Update was screened on an annual basis by each Company for the 2021 program year (5 sets of Company B/C tables x 1 year). 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.³⁴ 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 2019-2021 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 2021 Plan Update, including:

- Use of avoided costs from the 2018 AESC;
- Types of B/C tests to be used in the 2021 Plan Update; and

³² 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.

³³ 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.

³⁴ 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.

- Benefits used within each of the B/C tests and their source.

3.2 Avoided Energy Supply Cost Study

Most of the avoided costs used in the Companies' B/C testing were updated for the 2021 Plan Update based on the completed 2018 AESC.³⁵ The 2018 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 2018 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 will coincide with the release of the 2021 AESC.

3.3 Benefit-Cost Tests

3.3.1 Benefit-Cost Tests

The following three B/C tests were utilized for the 2021 Plan Update. 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 Table 3-1.

- **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 GHG 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

³⁵ Synapse Energy Economics, Inc., *Avoided Energy Supply Component in New England: 2018 Report*, Mar. 30, 2018.

Eligible program.³⁶ In addition, the TRC includes all costs associated with acquiring these savings. This includes program costs and customer out-of-pocket costs.

Table 3-1, on the next page, provides the benefits (numerator) and costs (denominator) that are used within the three B/C tests, as well as their value and source.

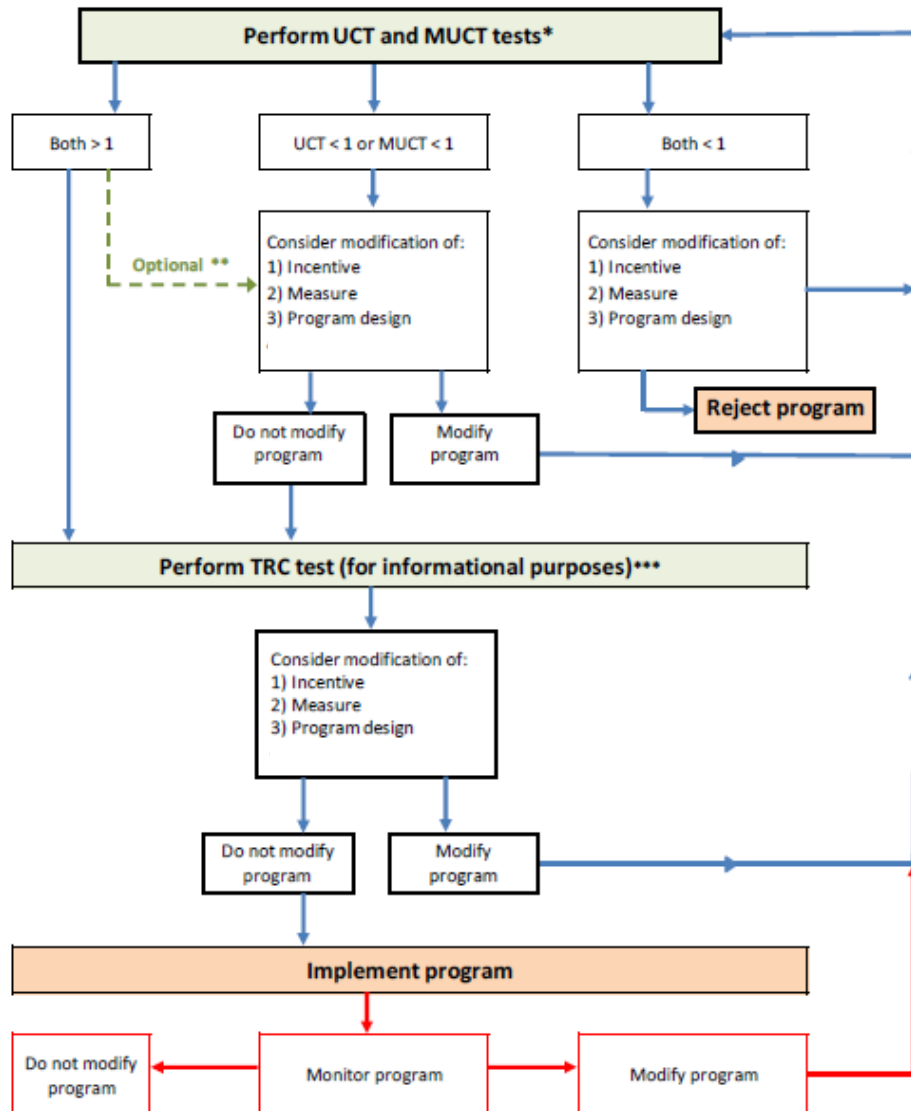
³⁶ NEIs are based on Table A6-1 in the 2021 PSD manual per DEEP's Approval with Conditions of the 2020 Plan Update, Conditional Item No. 2, available online at:
https://www.energizect.com/sites/default/files/Approval%20of%20CLM%202020%20Plan%20Update_Conditions%20of%20Approval.pdf

Table 3-1: 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
Electric Program Benefits						
Energy	\$/kWh	\$0.058	X	X	X	2018 AESC
Capacity	\$/kW	\$71.09	X	X	X	2018 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	\$92.16	X	X	X	2018 AESC
Reliability (Note 2)	\$/kW	\$4.15	X	X	X	2018 AESC
Energy DRIPE (Note 3)	\$/kWh	\$0.028	X	X	X	2018 AESC
Capacity DRIPE (Note 4)	\$/kW	\$258.42	X	X	X	2018 AESC
Natural Gas						
Natural Gas	\$/MMBtu	\$7.76	X	X	X	2018 AESC
DRIPE (Note 5)	\$/MMBtu	\$3.02	X	X	X	2018 AESC
Oil						
Oil	\$/MMBtu	\$22.51		X	X	2018 AESC
Oil DRIPE	\$/MMBtu	\$0.112		X	X	2018 AESC
Propane	\$/MMBtu	\$31.39		X	X	2018 AESC
Water	\$/Gallons	\$0.014			X	CT rates (Note 6)
Non-Energy Impacts	\$(varies)	N/A			X	Various
Non-Embedded Emissions	\$/kWh	\$0.042			X	2018 AESC
Fossil Emissions	\$/ton	\$100/ton CO ₂ \$11,955/ton NO _x			X	2018 AESC
Cost (denominator)			Natural Gas/Electric Cost (no oil/propane)	Program Cost (including oil, propane)	Total Cost (program + customer)	
<p>Note 1: 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>Note 2: Pooled Transmission Facilities and Reliability are new benefits. They were not included in previous versions of the AESC Study and therefore, were not included in B/C screening prior to 2019.</p> <p>Note 3: Includes all DRIPE identified in 2018 AESC, including own-fuel DRIPE and cross-fuel DRIPE (Connecticut DRIPE and rest-of-pool).</p> <p>Note 4: Capacity DRIPE includes Connecticut and rest-of-pool components.</p> <p>Note 5: Includes all DRIPE identified in 2018 AESC including own-fuel DRIPE and cross-fuel DRIPE (Connecticut DRIPE and rest-of-pool).</p> <p>Note 6: Water-avoided costs based on 2016 Tighe and Bond water and sewer data for Connecticut. http://rates.tighebond.com/index.aspx.</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. The flow chart below (Figure 3-1) 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 3-1: Connecticut B/C Testing Process³⁷



*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.

³⁷ 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.³⁸ This includes the following: (1) the use of nominal avoided costs, and (2) a nominal discount rate of 3 percent³⁹ 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 based on the 2018 AESC.

³⁸ DEEP Resolution of Conditions, Sep. 26, 2014.

³⁹ 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.

CHAPTER FOUR: EVALUATIONS

4.1 Purpose of Evaluations

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.⁴⁰ 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 2005.⁴¹ 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.⁴² This approach allows for

⁴⁰ See <https://www.energizect.com/connecticut-energy-efficiency-board/energy-efficiency-board-committees/evaluation-committee> for additional information on the EEB evaluation process.

⁴¹ 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.

⁴² 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 and Navigant, 2019.

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 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>.

4.2 2020 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 have carefully considered and responded to all evaluation recommendations.

Table 4-1, on the next page, details the 2020 Evaluation recommendations and how the Companies plan to incorporate these recommendations into the 2021 Plan Update program offerings.

Table 4-1: 2020 Evaluation Recommendations

Study	Recommendation	Response
<p>R1963a Short-Term Residential Lighting Study, Sale Data Analysis</p>	<p>The Companies should remove all support for reflector light-emitting diode (“LED”) bulbs as soon as feasible.</p>	<p>The Companies agree in part with the recommendation and will remove support for reflector LEDs in all non-hard to reach (“HTR”) stores in 2021. However, the evaluation results support continuing to incentivize reflectors in HTR channels in 2021 due to the wide availability and continued low cost of incandescent reflectors compared to LED reflectors in these channels. For instance, preliminary results of the R1963b: Short Term Residential Lighting Analysis found “dimnable LED BR30 products and their corresponding baseline incandescent bulbs are widely available,” in discount, food markets, hardware/lumber, and national retailers, and also found that incandescent reflectors are priced well below LEDs across multiple channels in Connecticut.</p>
	<p>The Companies should reduce the program resources going into the home improvement channel.</p>	<p>The Companies generally agree with this recommendation and plan to re-allocate resources toward channels with greater potential for continued lighting savings. Results from the 1963b evaluation will also help guide this re-allocation, as discussed below.</p>
<p>Draft R1963b Short-Term Residential Lighting Study, Product Availability and Pricing Review</p>	<p>Discontinue promotion of products at Club Stores where the product choice landscape already favors efficient LED products (no baseline products are sold) and redirect those efforts toward retailers where baseline products are a viable option for customers.</p>	<p>The Companies agree in general with this draft recommendation but are concerned about potential backsliding from penalizing stores by removing our support for any who decide to stop selling inefficient products. Such action creates a perverse incentive and may result in re-introduction of baseline products to allow these stores to offer lighting for those customers who are not willing to pay the higher up-front cost for unsubsidized LEDs. An initial implementation vendor investigation of 13 BJ’s locations in Connecticut found that nearly 9 percent of bulb packages available on the shelves were halogens, and that halogens were available at 10 of the 13 locations. The Companies will continue to investigate product availability at Club Stores in Connecticut and non-program states to refine their approach to this channel.</p>

Study	Recommendation	Response
<p>Draft R1963b Short-Term Residential Lighting Study, Product Availability and Pricing Review (continued)</p>	<p>Review and refine the incentive strategies utilized in the program in the following ways:</p> <ul style="list-style-type: none"> a. For Non-Discount retailers, size incentives and design more targeted strategies to promote products based on the pricing and availability information and first cost differentials between LEDs and baseline products established in this study. b. For Discount retailers, ensure that incentives are aggressive compared to the other retailers in the program. 	<p>The Companies agree with these draft recommendations and are refining their incentive strategy accordingly.</p>
	<p>Reduce incentives from products where the current levels <i>exceed</i> the incremental first cost between LEDs and baseline products (in 4 of 6 retail channels for 65W equivalent directional bulbs) unless there is some other compelling barrier to overcome.</p>	<p>The Companies agree with this draft recommendation.</p>
<p>C1634 Energy Conscious Blueprint (“ECB”) Impact Evaluation</p>	<p>Remove Dual Enthalpy Economizers.</p>	<p>The Companies have offered these economizers because they believe they are more likely to be installed correctly than baseline dry bulb technology. However, acknowledging the low evaluated savings for these measures relative to a baseline of a modeled single dry bulb unit that is <i>correctly installed</i>, the Companies will discontinue offering them in ECB.</p>
	<p>Consider combining the lighting hours of use results from this study with the C1635 Energy Opportunities Impact Evaluation for a future version of the Connecticut PSD.</p>	<p>The Companies will consider this analysis in ongoing discussions on PSD updates with the Technical and the Evaluation Administrator consultant teams.</p>

Study	Recommendation	Response
<p>C1634 Energy Conscious Blueprint Impact Evaluation (continued)</p>	<p>Calculate chiller savings using an annual 8,760 hourly calculation method.</p>	<p>The Companies acknowledge that in limited cases, an 8,760 hourly calculation method may result in improved accuracy of savings calculations, but in many cases this method would result in little to no gain in accuracy. The Companies note that prior to this C1634 recommendation, the evaluators conducting the comprehensive PSD review (X1931) stated that they “reviewed the chiller savings calculation tool and agree with the methodology used by the PSD. The BIN analysis methodology is of high rigor compared to what other TRMs use.” Implementing this recommendation for 8,760 modeling would require significant effort and cost to gather the information necessary to model correctly and pay for modelling expertise for each chiller project. At the same time, increased code requirements are reducing chiller savings. The Companies continue to disagree that the cost and effort for this modeling is worth the incremental improvement in accuracy it may provide for a limited number of projects.</p>
	<p>Implement a pre- or post-implementation assessment of air compressor measures by using trend data or power metering.</p>	<p>The Companies will consider this recommendation in light of the time and cost necessary to implement it. Because there are frequent shift changes and other operational variation over time, short-term metered load may not be representative of longer-term usage.</p>
	<p>Update electric demand savings calculations for air compressors.</p>	<p>The Companies generally agree with this recommendation.</p>
	<p>Adopt greater scrutiny into the assessment of load profiles for all chiller measures, including pre- or post-implementation metering or trending, or as an alternative utilizing energy models to simulate chiller performance to improve the accuracy of chiller savings.</p>	<p>The Companies will consider this recommendation in light of the time and cost necessary to implement it. Because chillers have relatively small amounts of savings due to high baselines, the alternative approach of energy modeling may be more feasible. In either case, the added cost and time required for would need to be balanced against the improvement in variability in project savings estimates.</p>

Study	Recommendation	Response
<p>C1634 Energy Conscious Blueprint Impact Evaluation (continued)</p>	<p>Include a True New Construction (“TNC”) designation within the measure tracking database.</p>	<p>The tracking data Eversource provided included designations for true new construction (as well as major renovation, new equipment, and equipment replacement).</p>
	<p>Improve the detail provided in the measure description data entry within the measure tracking database for each measure.</p>	<p>The Companies generally agree that detailed measure descriptions are useful in tracking data. For custom measures it may be difficult to track and enter consistent descriptions. However, Eversource is pursuing tracking system modifications and will consider incorporating additional detail for these measures.</p>
	<p>Use the results of the baseline study to help prioritize quantitative investigations of standard practice baselines in a future study.</p>	<p>The Companies agree with this recommendation, although note that evaluation scoping and planning decisions are ultimately made by the EEB evaluation committee. In addition, it is important to note that the Connecticut energy code is expected to change soon, and the Companies are soon launching an updated new construction program.</p>
	<p>Develop regulatory guidance and policies related to establishing first-year energy savings on measures where occupancy or load is expected to ramp up to full capacity over a period of multiple years and first-year energy savings may not be representative of typical future annual energy savings.</p>	<p>The Companies generally agree with this recommendation.</p>
<p>C1635 Energy Opportunities Impact Evaluation</p>	<p>Update the PSD with evaluated electric and natural gas realization rates by end use.</p>	<p>The Companies agree with this recommendation and have applied these realization rates in the 2021 PSD.</p>
	<p>Revise the PSD to explicitly call for the use of site-specific hours of use assumptions when calculating EO lighting energy savings and the coincident factors recommended from the data leveraging analysis.</p>	<p>The Companies generally agree with this recommendation, and it is generally in line with their current practices. However, in reviewing proposed projects, the Companies plan to continue to use the PSD default hours as a check against potential overstatement of proposed hours by implementation vendors. As is the current practice, if vendor proposed hours of use are significantly higher than PSD defaults, the Companies</p>

Study	Recommendation	Response
C1635 Energy Opportunities Impact Evaluation (continued)		require further support and may conduct a deeper review of the proposal to mitigate any potential overstated savings. In addition, the Companies have strengthened the per-unit incentives offered, which will shift some vendors away from proposals for kWh-based incentives.
	The PSD should use one of the two seasonal peak realization rates by end use, depending on whether new protocols are established to fully populate EO tracking estimates.	The Companies agree with this recommendation and will use the prospective realization rates that assume full population of peak kW tracking estimates. Since the period of this study, the Companies have begun routinely reviewing projects to ensure that kW values are populated in tracking data.
	The PSD upstream lighting savings calculations should be updated with using the in-service rates, delta watts, hours of use, and interactive effects from the study.	The Companies agree with this recommendation and have applied these changes in the 2021 PSD update.
	The EEB should consider (1) a study of hours of use reduction due to lighting controls, and (2) to use the error ratios observed in this study to guide future studies of EO.	Evaluation planning and scoping issues are ultimately decided by the EEB. The Companies generally agree with these considerations, although would note that their experience in Massachusetts indicates that lighting controls evaluations are technically and methodologically challenging and have sometimes failed to provide useful result.

4.2.1 PSD Review (X1931)

In addition to the primary evaluation research conducted in 2020, the EEB hired an evaluator to conduct a comprehensive review of the savings assumptions and algorithms in the 2020 PSD manual, identify gaps or outdated savings assumptions, propose specific updates based on a review of evaluation research in other jurisdictions, and identify opportunities for future Connecticut primary evaluation research. This exhaustive process has resulted in nearly 600 suggested updates to the 2021 PSD manual that the Companies have received in the last several months. To properly implement PSD manual updates, each one of these suggested changes requires careful review by the Companies to ensure the change: (1) is well-supported by evidence, (2) accurately reflects and aligns with the way the Companies deliver their programs in Connecticut, and (3) can be reasonably accommodated in the

Companies' existing tracking systems and engineering analysis tools and executed by their implementation teams.

The Companies have worked to incorporate as many of these changes as possible for the November 1, 2020 filing, but have identified several areas for continued review and discussion with the Technical and the Evaluation Administrator consultant teams. The Companies will continue to work with the Technical and the Evaluation Administrator consultants to prioritize and incorporate high-impact, feasible updates and reflect these changes in the March 1, 2021 PSD update and the November 1, 2021 filing of the 2022-2024 C&LM Plan.

APPENDIX A: 2021 STATEWIDE MARKETING PLAN

A.1. Introduction

The 2020 program year was a challenging year for energy efficiency, including marketing efforts. As referenced in Chapter One, the COVID-19 pandemic has impacted the ability of the Companies to reach customers due to the shut-down of the programs and the economic impacts on vendors and reductions of staff. The Companies worked diligently with contractors and stakeholders to reimagine energy efficiency and demand management programs in Connecticut from a virtual perspective (e.g., VPAs), the adjustment of health and safety protocols, and the enhancement of incentives. All of these modifications required the Companies to quickly pivot messaging, web presence, training, development of new creatives, and to launch media efforts.

The Energize Connecticut social media accounts will now roll up to the 2021 Statewide Marketing Plan. In the fall of 2020, the Companies requested formal bids for a social media partner and the winner, whether the incumbent or a new agency, will be required to elevate the current social media platforms and the content featured as well as explore new social media platforms in order to reach a greater audience. Content will focus on topics pertinent to the Energize Connecticut stakeholders including energy efficiency, energy-saving tips, renewable energy, financing opportunities, and supplier of choice.

The estimated costs for the 2021 Marketing Plan are shown in Table A-1. The Connecticut Green Bank will not provide financial support in 2021 but will continue to dedicate in-kind resources.

The Website Committee also went out to bid for a partner to maintain, update, and redesign the website based on the strategy provided by our website strategy partner Mile 7.

Table A-1: 2021 Marketing Plan Estimated Costs

2021 Marketing Plan Task	Eversource	United Illuminating, CNG, and SCG	Total
Website Maintenance, Updates, Technical Support, UI/UX, Copywriter, and Planning	\$400,400	\$171,600	\$572,000
Social Media	\$70,081	\$30,000	\$100,081
Total	\$470,481	\$201,600	\$672,081

A.2 Metrics and Goals

Website traffic is tracked via Google Analytics and 2019 traffic is reported later in this 2020 Statewide Marketing Plan. Since 2018, the Companies’ programmatic marketing drives customers to sign-up pages and the 877-WISE USE energy efficiency hotline. It is no longer feasible to draw trending conclusions from the website’s traffic (as advertising has been the primary driver of website visits historically). In 2021, the Companies recommend reinstating search marketing⁴³ for EnergizeCT.com in order to drive traffic to the website and connect Connecticut’s customers to energy efficiency program information. At that time, the Companies will have more trackable traffic information to share. However, it is assumed that this small investment in search marketing will not produce a significant measurable change in website traffic. As such, no metrics are proposed at this time.

A.2.1 Overview

Energy efficiency and renewable energy program information is available to Connecticut consumers, businesses, and municipalities through the EnergizeCT.com website. In addition to program information, this mobile-friendly website provides consumers with RSVP capability for Energize CT events and the ability to locate and contact local contractors and lenders. The site also provides a secure platform to disseminate key programmatic information to partner vendors and trade allies.

From launch in January of 2013 through the first half of 2020, the site has seen almost 6.5 million sessions⁴⁴ with 30.9 million pageviews.⁴⁵ For context, Connecticut has 3.6 million residents. Figure A-1 shows the website activity on EnergizeCT.com.

Figure A-1: EnergizeCT.com Website Activity



⁴³ “Search Marketing” involves tactics to gain online presence and traffic via paid/unpaid strategies on search engines such as Google.

⁴⁴ Sessions” indicate the number of unique browsing sessions initiated by all Energize CT website visitors during the selected reporting time period. For more information see: <https://www.energizect.com/sites/default/files/WebsiteMarketingMetricDefinitions.pdf>.

⁴⁵ A “pageview” is an instance of a page being loaded by a browser. For more information see: <https://www.energizect.com/sites/default/files/WebsiteMarketingMetricDefinitions.pdf>.

A.2.2 2021 Key Activities

Continuing with the 2020 focus, the Website Committee is concentrating on the site's overhaul for compatibility with Drupal 8 platform. The website content is in the review stage and is projected to be live on Drupal 8 by late fall in 2020.

During the first and second quarters of 2020, the Committee partnered with Mile 7, the winner of the bid for a partner to focus on the strategy of the website. Mile 7 conducted an in-depth study designed to learn what the Energize CT website does well, what it could do better and how it needs to evolve to meet future needs. Based on interviews, surveys, and focus groups the team discovered three key customer challenges.

1. It is difficult to understand how to be more energy efficient;
2. Helpful content is difficult to find quickly; and
3. We are not delivering enough clarity on who we are.

The cornerstone of the website strategy will be focused on solving each of these challenges. In October 2020, the Web Committee went out to bid for a Vendor Partner who will update the website, as well as conduct the day-to-day maintenance and the redesign of the website based on the strategic plan proposed by Mile 7. This contract will run for three years.

A.2.3 Three-Year Strategy (2019–2021)

2021 represents the third year of the site's Three-Year Strategy with a technical focus on the site's platform upgrade and the reexamination of its overall strategy along with a website redesign as appropriate.

In early 2020, a Website Strategist was engaged to review the website's overall strategy, seek feedback from the Energy Efficiency Board and key stakeholders (including trade allies), and provide recommendations for any changes to the site's strategy. A team of UX (User Experience) and UI (User Interface) Designers will be engaged to provide a new design for the site based on the Website Strategist's recommendations and the new features made available from the platform upgrade. The Website Strategist will consult on the new design to ensure the new strategy is implemented. Depending on the new strategy, a Copywriter may be engaged to ensure that website content aligns with the new strategy. The development of the new site will commence in two phases: (1) Phase 1 - Front End Focus; and (2) Phase 2 - Back End and Complex Enhancements. Phase 1 will be completed in 2021. Phase 2 will be launched in 2022 and will focus on the development back-end/non-consumer-facing and more complex enhancements. Both the UX/UI Design and Copywriter teams will continue to be engaged to support the complex enhancement work anticipated in Phase 2.

Planned 2021 Activities

EnergizeCT.com: 2021 Website Budget Summary	
Paid Search	\$12,500
Content Management, Strategist, Platform Upgrade, UI/UX, Copywriter, and New Design	400,000
Day-to-Day Maintenance, Server, Minor Enhancements, etc.	\$159,500
Total Budget	\$572,000

- i. **Platform Upgrade.** The bulk of 2021 activities will be focused on the Platform Upgrade to Drupal 9 if appropriate, new Website Design, and Phase 1 implementation.
- ii. **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.
- iii. **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.
- iv. **Enhance Engagement.** Once the website is upgraded to the new Platform, it will have some the ability for new key engagement features including a homepage animated key statistics section (e.g., energy saved, homes weatherized, etc.) along with legislative report highlights, and an improved image gallery feature (e.g., Zero Energy Challenge, E-Houses, etc.).
- v. **Facilitate Action Features.** In preparation for the fall release of the upgraded platform, existing content will be streamlined to facilitate customers in taking action. Program pages will include a new section highlighting rebate amounts and key measures offered. Main menus will offer immediate access to key informational videos and a “Find a Solution” mini-wizard will be prominently featured throughout the website.
- vi. **Site Intercept Surveys.** The continued use of website intercept surveys will assist the Website Strategist in understanding user behavior unique to the EnergizeCT.com site, to inform enhancements, and to support increased consumer engagement.

APPENDIX B: PUBLIC INPUT SESSION

B.1 Public Input Comments



2021 Plan Update - Public Input Comments Company and EEB Positions

April 8 and May 13, 2020

This summary pertains to written and verbal comments received at the April 8, 2020 and May 13, 2020 EEB Public Input sessions. All submitted written comments may be accessed at Box.com:

- **4/8/2020 session:** <https://app.box.com/s/83wt01sxcg24dvvf8j8l2qvg2vomrn2e>
- **5/13/2020 session:** <https://app.box.com/s/evks2dgop4kukifysicn7mrkhotblh9p>

1) Jonathan Casiano

Representing: Bright Solutions

Date Input Received: 4/8/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Casiano requested that the HES co-pay be reduced to \$0.

Companies' Position(s):

In response to the COVID-19 pandemic, the HES program co-pay was reduced to \$0. While the Companies understand the desire of some HES vendors to move toward a permanent \$0 co-pay for market transformation, DEEP continues to encourage the utilization of a customer co-pay. In 2021 and post-COVID, the Companies are recommending that the HES co-pay go to \$50.

EEB Position:

The EEB thanks Mr. Casiano for his suggestion. In response to the COVID-19 pandemic, the HES program co-pay was reduced to \$0, where it will remain into 2021. The EEB supports an affordable but meaningful customer contribution to the HES services, and the \$50 co-pay in 2021 and post-COVID would appear to be a reasonable level.

2) Leticia Colon**Representing:** Energy Efficiencies Solutions**Date Input Received:** 4/8/2020**Input Method(s):** Verbal Comments**Requests/Comments:**

Ms. Colon provided comments related to the temporary suspension of on-premises work due to COVID-19. She requested that individual vendors be given the ability to decide who to use for employee training, and what training requirements to set. She also requested that the vendors be compensated for administrative costs they were incurring due to COVID-19-related activities, particularly since they were not receiving any revenue due to the temporary suspension of on-premises work. She also said she was concerned about how virtual audits would play a role in the programs moving forward.

Companies' Position(s):

In response to the COVID-19 pandemic, the Companies worked closely with a third-party administrator to develop a COVID-19 training action plan across four New England states to ensure that policies were consistent across the region. The Companies did compensate vendors for administrative costs incurred due to COVID-19-related activities; however, the compensation structure and fee schedule were determined by DEEP.

In 2021, the Companies intend to continue to deploy VPAs in the HES, HES-Income Eligible, and Small Business Energy Advantage programs. For the 2020 and 2021 program years, the primary objective of VPAs is to use them as a screening tool to gauge the needs of the homeowner and C&I customers, and assess the manpower and materials needed for an in-home or on-premises assessments. Secondary objectives are to generate energy savings with installed measures and to screen for weatherization barriers.

EEB Position:

The EEB thanks Ms. Colon for her suggestions. While the Companies stood up training relatively quickly, offered a range of training options, and compensated vendors for administrative costs during the COVID-19 shut-down, programs shifted focus to health and safety training for all vendors and staff before implementing a second broader set of training options as soon as the Governor permitted it. While no one wishes for it, if there is another program shut down, the EEB would support more vendor flexibility in deciding who to use for employee training, and what training requirements to set.

VPAs have been shown to be quite beneficial in establishing customer rapport, screening for building needs and crew requirements, and planning for the in-premises visit. The EEB supports VPAs as an effective tool in delivering HES and HES-IE program services and encourages including them as a program enhancement going forward.

3) Rebecca Baez Castro**Representing:** Energy Efficiencies Solutions**Date Input Received:** 4/8/2020**Input Method(s):** Written and Verbal Comments**Requests/Comments:**

Ms. Baez Castro provided comments related to the temporary suspension of on-premises work due to COVID-19. She requested that the vendors be compensated administrative costs. She also requested that HES vendors be compensated \$150 to schedule and complete data entry for new or rescheduled leads; and \$50 for rescheduling. In regard to training, she also requested that vendors be compensated for training activities, and the vendors should be allowed to choose their own training providers and requirements.

Companies' Position(s):

Please see the Companies' response to Comment No. 2 above. The Companies' training sessions were scheduled and managed in collaboration with other utilities across three states (Connecticut, Massachusetts, and New Hampshire) allowing for scalability and reduced costs to Connecticut's ratepayers. Although several requests were made to cover the costs of training, ultimately only the Company-offered training sessions were compensated with Energy Efficiency Fund monies.

EEB Position:

The EEB thanks Ms. Baez Castro for her suggestions. Please see the EEB's response to Comment No. 2 above. The EEB supported compensation for administrative costs, scheduling, and rescheduling leads per DEEP's order. The EEB would support more flexibility in covering training costs if there is another program shut down.

4) Ida Churchill**Representing:** Energy Efficiencies Solutions and Best Home Performance of CT**Date Input Received:** 4/8/2020 and 5/13/2020**Input Method(s):** Written and Verbal Comments**Requests/Comments:**

Ms. Churchill provided comments related to the temporary suspension of on-premises work due to Covid-19. In regard to the COVID-19 Workforce Development Plan, she asked if there was an opportunity to create a new part of the Plan to incorporate BPI leads. She said they should receive some level of payment for moving to BPI Healthy Homes. She requested that the vendors be allowed to identify and use their own training resources, and then be reimbursed for those training activities. She also requested that the vendors be reimbursed for administrative costs being incurred. She also said that the vendors needed more information on the virtual audits, to better understand how the vendors would use virtual audits and how they would impact the vendors. Ms. Churchill said there was a large

backlog of residential projects, and that the Residential vendors were waiting for approval to resume on-site premises work.

Companies' Position(s):

The Companies are exploring offering a workforce development training program for the Building Performance Institute (“BPI”) Analyst and Envelope and to pay for the certifications. The program’s design would include requirements for the individuals completing the BPI Analyst and Envelope trainings and certifications to work in the field after training.

Please see the Companies’ responses to Comments No. 2 and 3 regarding VPAs and reimbursements for administrative costs.

EEB Position:

The EEB thanks Ms. Churchill for her suggestions. The EEB would support BPI training and certification for a “Healthy Homes Evaluator” designation as part of any future program-funded training, in addition to the other BPI trainings and certifications offered.

Please see the EEB’s responses to Comments No. 2 and 3 above regarding training and administrative costs and virtual pre-assessments. Hopefully, the backlog of residential projects will keep the vendors busy now that programs have opened back up.

5) Tim Fabuien

Representing: Aiello Home Services

Date Input Received: 4/8/2020

Input Method(s): Written and Verbal Comments

Requests/Comments:

Mr. Fabuien provided comments related to the temporary suspension of on-premises work due to Covid-19. He said he was concerned about the potential costs of virtual audits. He also requested that only HES vendors in Connecticut be used if the Companies implement a customer self-install kit program.

Companies' Position(s):

Mr. Fabuien’s concerns were addressed in a Connecticut Technical Advisory Council (“CTAC”) meeting. The final outcome of that meeting was that HES vendors who wished to provide a customer self-install kit were allowed to do so.

EEB Position:

The EEB thanks Mr. Fabuien for his comments. Compensation for VPAs was established based on vendor experience offering the service. His concerns regarding a customer self-install kit were addressed and resolved following his recommendation in a subsequent CTAC meeting.

6) Steve Cowell

Representing: E4TheFuture

Date Input Received: 4/8/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Cowell provided comments related to the temporary suspension of on-premises work due to Covid-19. He said the HES vendors should be able to provide suggestions to the Companies on training content and providers, and that a process should be established for training reimbursement. Mr. Cowell also said the rules around personal protective equipment (“PPE”) were changing, and that legal assistance for the vendors regarding PPE would be helpful.

Companies' Position(s):

Mr. Cowell’s concerns were addressed through DEEP and the CTAC process. In response to the COVID-19 pandemic, the Companies worked closely with a third-party administrator to develop a COVID-19 training action plan across three states (Connecticut, Massachusetts, and New Hampshire) to ensure that policies were consistent across the region. The third-party administrator provided training regarding safety and health protocols and the proper use of PPE. Additionally, the Companies developed safety and health protocols once vendors were allowed to return to in-home or on-site premises work.

EEB Position:

The EEB thanks Mr. Cowell for his comments. Please see the EEB’s responses to Comments No. 2 and 3 above regarding concerns about vendor trainer and trainings selection and reimbursement.

The EEB supported ensuring health and safety standards for vendors, their workers, and homeowners in re-opening the programs. As standards changed and science provided additional information about the proper protocols for working during a pandemic, the training, PPE, and standards also evolved. The EEB supports a balanced, coordinated, science-based approach to opening the programs back up and operating them.

7) John Greeno**Representing:** New England Conservation Services**Date Input Received:** 4/8/2020**Input Method(s):** Verbal Comments**Requests/Comments:**

Mr. Greeno provided comments related to the temporary suspension of on-premises work due to Covid-19. He said the Companies should reimburse HES vendors \$1,200 per week per employee providing administrative services related to Covid-19 activities.

Companies' Position(s):

See the Companies' response to Comments No. 2 and 3.

EEB Position:

The EEB thanks Mr. Greeno for his suggestions. The EEB supports compensating vendors for their support of the Energy Efficiency Fund programs while remaining committed and poised to re-engage once programs opened back up. The specific compensation amount was reviewed and agreed to by DEEP and the Companies based on contractual arrangements and vendor costs.

8) Erin Kempster and George Chapman**Representing:** Energy Solutions**Date Input Received:** 5/13/2020**Input Method(s):** Written and Verbal Comments**Requests/Comments:**

Ms. Kempster provided verbal comments, and Mr. Chapman provided written comments. They recommended that the 2021 Update to the 2019-2021 C&LM Plan include technical support and advocacy for new appliance standards and building codes at the local, state and federal level. They said that incorporating such standards into the C&LM Plan would be especially important in helping the state achieve its climate goals as required in Public Act 18-82. They noted that the 2018 Comprehensive Energy Strategy recommended that the state continue to adopt current building codes that incorporate the most recent savings opportunities and support product efficiency standards. They also noted that there was significant interest in other states (including NY, MA, RI, MI, CO, AZ, MD and others) in allowing state regulatory or regulated utilities a mechanism for claiming attribution for savings originating from these types of programs. They also suggested potential adoption of a "program-to-code framework" in which traditional incentive programs drive market adoption, gather market data

specifically in support of anticipated potential code updates, and subsequently receive partial savings attribution for that future code.

Companies' Position(s):

For the 2021 program year, the Companies are looking to include savings from building code compliance into the Residential and C&I Energy Efficiency Portfolios. Please see Chapter Two for more information.

EEB Position:

The EEB thanks Ms. Kempster and Mr. Chapman for their suggestions. The EEB supports a code and standards savings attribution approach and presented on this topic in the September 2020 Residential Committee meeting. The EEB encourages the Companies to include in their 2021 Plan Update a plan to research, propose and implement a codes and standards advocacy and compliance program to both: 1) help the State adopt more stringent codes and standards earlier than would have occurred otherwise and 2) to then support codes and standards compliance in the market.

9) Commercial Contractor Consortium (CCC)

Representing: 16 Contractors serving C&LM C&I Programs

Date Input Received: 5/13/2020

Input Method(s): Written Comments

Requests/Comments:

Many C&I contractors, particularly those that serve the SBEA program, are at severe risk of business failure due to the temporary suspension of on-premises work for the SBEA program due to COVID-19. To address these challenges, the CCC provided four recommendations to DEEP, the EEB, and the Companies:

- 1) Installation of existing projects under contract;*
- 2) Incentivizing new clients to jump-start energy efficiency programs;*
- 3) Maintaining Connecticut's critical green workforce; and*
- 4) Additional essential recommendations.*

Given the contractors' serious situation, the CCC requested that their recommendations be acted on as soon as possible. Details on each of the recommendations can be found in the CCC's written comments:

<https://app.box.com/s/nznuvds8qq4hdryxey7q3t7o3apupnsd>.

Companies' Position(s):

The Companies thank CCC for their comments and note that their recommendations were reviewed and considered at the time of these public comments (May 2020). DEEP has approved many of the above-referenced recommendations, including allowing installation of existing projects under contract, integrating VPAs into the SBEA program, and offering free multiple workforce development trainings online to Connecticut's workforce.

EEB Position:

The EEB thanks the CCC for the recommendations, which were valuable suggestions for improvement of the programs. The EEB recognizes that DEEP and the Companies have acknowledged and worked with the CCC on all of the issues outlined in the CCC's written comments through the DEEP CTAC process. Major changes include significant increases to lighting and non-lighting incentives in order to encourage participation during the COVID-19 pandemic, and modifications to SBEA program eligibility. While the CCC recommendations may not have been adopted as proposed, the changes made by the Companies represent a prudent balance between the desires of the CCC, the priorities of the EEB, and the regulatory responsibilities of DEEP.

10) Randy Vagnini

Representing: Commercial Contractors Consortium (CCC)

Date Input Received: 5/13/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Vagnini highlighted some of the key points that were included in the CCC's written comments. He emphasized that Connecticut's C&I contractors were at severe risk due to the suspension of on-premises work for the SBEA program. He noted that MA and RI were offering 100% incentives to stimulate demand for projects. He also noted there said there was some customer confusion due to differences in Eversource's approach in Connecticut and other states. He expressed concern that it could potentially take years for the industry to return to normal. He urged the EEB and the Companies to take quick action on the CCC's written recommendations. Mr. Vagnini also said that the CCC was interested in having a seat on the EEB (the EEB Chair clarified that the legislature would need to add such a seat to the EEB).

Companies' Position(s):

Please see the Companies' response to Comment No. 10. The Companies note that the EEB is comprised of a diverse array of stakeholder representatives including a low-income advocate, rate payer advocate, environmental advocate, manufacturing advocate, and others. As established by state

law and statute, the Companies are not able to alter or add seats to the EEB. This responsibility lies with the Connecticut General Assembly.

EEB Position:

The EEB thanks Mr. Vagnini for his comments. DEEP approved changes to the efficiency programs on April 22, 2020, and the Companies moved quickly to implement these changes. These changes included:

- Increases for incentives;
- Changes to SBEA Loan start dates (deferred repayment);
- Waiver application for on-site work – SBEA/Contracted C&I Programs; and
- Changes to payment timeline (paying partial incentive payments).

With respect to incentive changes, while it may be desirable to have alignment between states for the sake of simplicity; the regulatory environments, priorities, and conditions vary enough between states that alignment may not be possible or desirable in all cases.

11) Dan Robertson

Representing: Commercial Contractors Consortium (CCC)

Date Input Received: 5/13/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Robertson highlighted some of the key points that were included in the CCC's written comments. He said that the CCC considered both health and economic issues. He requested that installations be allowed now. He recommended a higher tiered incentive structure and up to 100% incentives. He recommended rewarding customers that sign a Letter of Agreement by July and complete the work by the end of 2020. He also recommended deferred payments for 12-18 months. He recommended that these changes be kept in place for a while. He requested that the CCC's recommendations be acted upon as soon as possible. Mr. Robertson also said that personal protective equipment ("PPE") would run out in the middle of June, so action was needed to make sure that supplies of PPE are sufficient in the future.

Companies' Position(s):

Please see the Companies' responses to Comment Nos. 9 and 10.

EEB Position:

The EEB thanks Mr. Robertson for his comments. His comments were largely addressed in responses to Comment Nos. 9 and 10.

12) Brian Malarkey**Representing:** Sarracco Mechanical**Date Input Received:** 5/13/2020**Input Method(s):** Verbal Comments**Requests/Comments:**

Mr. Malarkey said that his company was a full service mechanical contractor. He noted that even full-service contractors were experiencing significant negative impacts from Covid-19, since many customers are nervous to let contractors into their homes. He urged the EEB and the Companies to review the CCC's written comments. He said that incentives needed to address, including HVAC incentives.

Companies' Position(s):

The Companies note that due to multiple meetings with DEEP and CTAC, that multiple incentives for energy-efficient measures were increased and approved, including for HVAC equipment and systems.

EEB Position:

The EEB thanks Mr. Malarkey for his comments. His comments were largely addressed in responses to Comment Nos. 9 and 10.

13) Pete Chapman**Representing:** Advanced Energy Group**Date Input Received:** 5/13/2020**Input Method(s):** Verbal Comments**Requests/Comments:**

Mr. Chapman requested that there be a change in the baseline to HVAC kilowatt-hour calculations. He said this has been an on-going issue that has not yet been resolved. He said that the contractors needed resolution of this issue in order to assist with cost-effectiveness calculations. He also said that the payback for projects is too long under current incentive structures.

Companies' Position(s):

The processes for establishing baselines are addressed in the 2021 Program Savings Document manual. The Companies note that incentive structures did increase as a result of COVID-19-related changes.

EEB Position:

The EEB would like to thank Mr. Chapman for his comments. The EEB would like to point out that the HVAC Modernization Pilot, started in 2019, is designed to address the challenges in using code as the baseline for HVAC projects. This pilot, which started with a focus on large chillers, is expanding to include other HVAC measures such as boilers and rooftop units.

14) Rich Cardita

Representing: Energy Resources USA

Date Input Received: 5/13/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Cardita said that his company was on the verge of laying off 60% of its employees. He requested immediate action, saying that the state was at risk of losing many of its C&I contractors.

Companies' Position(s):

Please see the Companies' responses to Comment Nos. 9 and 12.

EEB Position:

The EEB thanks Mr. Cardita for his comments. As stated in our response to Comment No. 10, DEEP approved changes on April 22 and these were implemented quickly by the Companies.

15) William Giblin

Representing: PTE Energy

Date Input Received: 5/13/20

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Giblin said he supported the CCC's comments and urged immediate action to address the situation.

Companies' Position(s):

Please see the Companies' responses to Comment Nos. 9 and 12.

EEB Position:

The EEB thanks Mr. Giblin for his comments. As stated in our Response to Comment No. 10, DEEP approved changes on April 22 and these were implemented quickly by the Companies.

16) Robert Auer

Representing: Energy Solutions

Date Input Received: 5/13/2020

Input Method(s): Verbal Comments

Requests/Comments:

Mr. Auer urged immediate action to address the situation.

Companies' Position(s):

Please see the Companies' responses to Comment Nos. 9 and 12.

EEB Position:

The EEB thanks Mr. Auer for his comment. As stated in our Response to Comment No. 10, DEEP approved changes on April 22 and these were implemented quickly by the Companies.

APPENDIX C: COMPLIANCE ORDERS

Appendix C.1 From the 2019-2021 Plan Approval with Conditions⁴⁶

Item No.	Topic or Program	Condition of Approval	Due Date	Status
1	Heat Pump Pilot Program	<p>DEEP has determined that the pilot can proceed with the additional incentives for oil and propane heating consumers that were proposed in the November 19, 2018 Conservation and Load Management Plan (C&LM Plan), provided the Companies develop and submit for DEEP’s review a more detailed description of the pilot, no later than March 1, 2019.</p> <p>DEEP appreciates the multiple stakeholders’ time and effort to attend the public meeting and to provide written comments. DEEP has weighed stakeholders’ concerns about moving forward with strategic electrification against concerns over the use of Conservation and Load Management funds for fuel switching as well as concerns of alignment with the 2018 Comprehensive Energy Strategy.</p> <p>This updated description should clearly articulate the goals for the pilot, including proposed tracking and analysis methodology, and at a minimum information regarding:</p> <ul style="list-style-type: none"> • Total cost: Identify the total cost of the 100 Heat Pump Pilot Program and how this compares to what was previously spent on the cost of the incentives in the last ten years. • Incentive/rebate levels: Provide a breakdown of the specific rebate or incentive levels offered per installation and clarify whether the rebate is for each customer or intended as an incentive to HES vendors to successfully acquire customers willing to install and use heat pumps for heating. Identify how incentive levels were calculated. Identify any market research or data used to determine the "additional" incentives for oil/propane customers. • Customer use cases: Clearly identify the specific customer use cases the pilot envisions to target. For example, clarify whether the pilot targets partial home or whole house conversions and whether the targeting reflects the assumptions used in incentive development. 	03/01/19	<p>Filed on 2/28/19</p> <p>Filed on 5/14/19</p> <p>Follow-up Item</p> <p>Item Completed</p>

⁴⁶ DEEP, Approval with Conditions of the 2019-2021 Plan (dated Nov. 11, 2018), filed Dec. 20, 2018. Available at: <https://www.ct.gov/deep/lib/deep/energy/consloadmgmt/ct-deep-approval-with-conditions-of-2019-2021-c-lm-plan-12-20-18.pdf>.

Item No.	Topic or Program	Condition of Approval	Due Date	Status
1	<p>Heat Pump Pilot Program (continued)</p>	<p>Financing products: Summarize the existing or new financing products (in addition to these incentives) available to help customers purchase and install heat pumps.</p> <p>All other educational and promotional efforts for renewable heating and cooling equipment, including heat pumps, as well as other high efficiency HVAC equipment should continue as described in the Plan.</p> <p>While allowing this pilot to proceed, DEEP is not endorsing the use of conservation and load management dollars for fuel switching. DEEP looks forward to learning how to transform this market successfully and this pilot should contribute to this knowledge. To date, the C&LM Plan Program Administrators have not recommended one fuel over another but provide an incentive to encourage adoption of high efficiency equipment based on the customer’s preferred fuel choice. Fuel switching at scale remains crucial to achieve the state’s greenhouse gas emission reduction targets to address climate change and will require identifying sustainable incentive sources to catalyze the transition of oil and propane equipment.</p> <p>As outlined in the 2019-2021 Plan, the EEB plans to review and assess the 2019 pilot results in September 2019, in time for the 2020 Plan Update. The future efforts regarding low-carbon heating technologies will be considered during the 2020 and 2021 Plan Update planning processes, and any such efforts will be reviewed by the EEB as part of the Plan Updates, with subsequent review and approval by DEEP.</p>		

Item No.	Topic or Program	Condition of Approval	Due Date	Status
2	Equitable Distribution Data	<p>Pursuant to CGS Sec. 16-245ee, each EDC must annually submit to DEEP and the EEB 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).</p> <p>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, multi-family (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, generally 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.</p>	<p>02/01/19</p> <p>07/01/19</p> <p>07/01/20</p> <p>07/01/21</p>	<p>Filed on 01/25/19</p> <p>Filed on 05/29/19</p> <p>Filed on 6/29/20</p> <p>To be completed</p>
3	Propose a Frequency to Conduct Financial and Operational Audits; Conduct Such Audits on the Approved Frequency Schedule	<p>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.</p>	<p>03/01/19</p> <p>07/01/19</p> <p>09/30/19</p> <p>09/30/20</p> <p>09/30/21</p>	<p>Filed on 2/14/19</p> <p>Requested extension from 7/1/19 to 9/30/19</p> <p>Filed 9/30/20</p> <p>To be completed</p>

Item No.	Topic or Program	Condition of Approval	Due Date	Status
4	EnergizeCT Center	No later than March 1, 2019, additional information is required to be made available to the EEB and the public prior to implementing this proposed decision. Therefore, DEEP instructs the Companies to provide an analysis of the number and types of groups served (prior to legislative diversion) and other usage data such as the use of the center for C&LM trainings, to illustrate how this center supports education. The analysis should include a breakdown of the budget and the activities planned after the Center shutdown. This analysis should include the effective budget decrease of the closure.	03/01/19	Filed on 3/1/19 Item Completed
5	Benefit-Cost Testing Methodologies and Input	No later than March 1, 2019, the Companies shall provide a written rationale for the inclusion and impact of the Pooled Transmission Facilities, Capacity DRIPE and the Reliability components. The number of years for each DRIPE component needs to be specified. A comparison of the 2015 to 2018 AESC benefits should be included. A nominal discount rate of 3% shall be used, for the reasons detailed in Attachment B to DEEP’s Approval with Conditions, for all Benefit/Cost Ratio calculations provided on or after March 1, 2019.	03/01/19 08/01/19	Filed on 3/1/19 Filed on 7/30/19 Follow-up Item
6	Performance Management Incentives (PMI)	DEEP approves the concept and percentages of the PMI. More work is needed on the secondary metric descriptions to ensure clear and effective metrics. No later than March 1, 2019 DEEP directs the Companies to provide additional detail on the secondary metrics and their progression from the previous plans/or the importance of the added metric and offer suggestions for modifications of existing or for additional secondary metrics that would catalyze increased opportunities for progress in achieving the Plan’s goals. DEEP expects to revisit PMI in 2019 for a review of entire program.	03/01/19 08/01/19	Filed on 2/28/19 Filed on 7/25/19 Follow-up item Item Completed

Item No.	Topic or Program	Condition of Approval	Due Date	Status
7	Winter Reliability and Winter Demand	No later than March 1, 2019, the Companies shall provide a quantification and discussion of the effect of conservation, load management, and energy efficiency investments, both electric and gas, on winter peak demand and as applicable, winter fuel reliability.	03/01/19 07/01/19	Requested Extension on 2/15/19 to file with Plan Update 11/1/19 Filed on 7/01/19 Item Completed
8	Street Lighting	No later than March 1, 2019, the Companies shall submit to BETP for DEEP’s records a report that summarizes the state of street lighting in Connecticut. Specifically, the Companies shall provide best estimates of the numbers of street lighting fixtures and exterior private area lighting fixtures owned by the utilities, municipalities, and the State of Connecticut. UI’s Outdoor Lighting Solutions programs, previously known as Private Area Lighting and any equivalent Eversource program should be included in this analysis. To the extent such information is available to the Companies; the report shall quantify how many streetlights in each category have been upgraded to LED technology and/or with advanced lighting controls. The Companies will provide recommendations on the timeline for upgrading Company-owned streetlights in each of these categories and identify the funding source(s). The Companies shall also propose a process for monthly reporting of any Service Address/Point of Delivery changes as the lights are upgraded to LEDs. An alternative to monthly would be a one-time conversion table of old-to-new, depending on where the Companies are in the conversion process.	03/01/19 08/01/19 Ongoing Monthly Report	Filed on 3/1/19 Filed on 7/19/19 Follow-up Item

Item No.	Topic or Program	Condition of Approval	Due Date	Status
9	Demand Management Programs and Pilots	No later than June 1, 2019 the Companies are to provide additional detail on Demand Management programs and pilots as developed and report related results. DEEP supports the expansion of the UI Wi-Fi enabled Heat Pump Water Heaters program and directs the expansion be undertaken in 2019 for both UI and Eversource if pilot results are successful. Additionally, the report should propose, as needed, updates in 2019 or future years to further align the Plan's demand management programs with work performed to advance the Distribution System Planning and Grid Modernization actions described in PURA dockets on those topics.	06/01/19	Filed on 5/31/19
10	Modernization Initiatives (Early Retirement/ Post-Useful Life)	DEEP is supportive of this initiative. No later than June 1, 2019 additional reporting requirements need to be carved out of normal reporting and a reporting template should be provided.	06/01/19	Filed on 5/29/19
11	Market-Based Solutions for Mid-sized Businesses	DEEP is supportive of this initiative. No later than June 1, 2019 Eversource shall provide a discussion on the incentives and other benefits being offered in this program and how they compare to the Small Business and Energy Opportunities programs.	06/01/19	Filed on 5/30/19
12	HES and HES-Income Eligible Solutions	No later than June 1, 2019, the Companies shall provide an additional, detailed description of the programs, including detailed budgets that provide detail on the planning assumptions used in the Program. Detail on the percentage of budgets for multi-family work should be included. This should report on the planned evolution of HES program over next three years, expanding beyond narrative in this Plan.	06/01/19	Filed on 5/30/19

Item No.	Topic or Program	Condition of Approval	Due Date	Status
13	Energy Efficiency Coincidence with HVAC Installation	No later than July 1, 2019, propose a plan including a timeline for implementation to analyze market share on an annual basis and annually submit a report to DEEP for DEEP's records to provide information on the instance of high efficiency equipment installed compared with standard equipment, using market share, municipal permits, or other reasonably reliable proxies for estimating the installation of high-efficiency HVAC at residential and commercial and industrial properties. The continued movement of product incentives to upstream locations requires different approaches to determine the status of market transformation.	07/01/19	Filed on 7/1/19
14	US DOE Home Energy Score	In the 2019-2021 C&LM Plan, the Companies state that they will "explore the correlations between the DOE Home Energy Score and customers implementing add-on measures," in order to better understand the effectiveness and value of including the score in HES. No later than September 1, 2019, the Companies shall perform this analysis with consideration to other effects such as funding diversions, and the February 2018 implementation of "opt-in-only" language.	09/01/19	Filed on 8/29/19
15	Commercial and Industrial Lighting Technologies	DEEP recognizes the importance of developing the infrastructure to promote advanced lighting technology. DEEP needs to ensure LED conversions in the retrofit market continues until the market has been saturated. This measure type provides for important winter peak savings. No later than October 1, 2019 the Companies should provide a methodology to assess remaining market potential for C&I sector retrofit and provide a discussion on this market.	10/01/19	Filed 9/27/19
16	Heat Pump Technologies Specifications	No later than October 1, 2019, the Companies are to incorporate the heat pump specifications of the U.S. Department of Energy's Regional Energy Efficiency Organization, Northeast Energy Efficiency Partnerships (NEEP), into the heat pump program or to provide a detailed analysis on why they believe these specifications are not satisfactory. This analysis should include the impact of not participating in a regional standard and its impact on the market.	10/01/19	Filed 9/27/19

Item No.	Topic or Program	Condition of Approval	Due Date	Status
17	Residential Lighting Technologies	DEEP is providing an approval of a three-year plan, however, since it has been noted that planning assumptions are in flux for residential programs in 2020 and 2021, these programs will require additional approvals when the Companies have reached a consensus on planning assumptions. This should be done through the Plan update process and may require the Companies to supply more detailed analysis than typically provided for Plan updates.	Ongoing	Completed Filed with 2020 and 2021 Plan Updates (reference Residential Program Changes and Evaluation sections)
18	Electronic Data Coordination-DSS	The Companies shall continue to work collaboratively with the Department of Social Services and DEEP to coordinate data related to households served through energy assistance and energy conservation and weatherization programs to ensure the state is able to optimize program coordination and to fulfill its obligations to report detailed demographic and other information to federal agencies on grants received from the US Department of Health and Human Services through the Low-Income Home Energy Assistance Program and from the U.S. Department of Energy Weatherization Assistance Program for Low-Income Households.	Ongoing	Ongoing
19	Electronic Data Coordination and Accessibility —DEEP and Municipalities	The Companies shall cooperate and collaborate with DEEP to continue to coordinate electronic data availability and connectivity related to the Companies’ statutory requirements pursuant to CGS Sec. 16-245ii to maintain building energy data, that can be made available to the public, in a format compatible for uploading to the United States Environmental Protection Agency's ENERGY STAR Portfolio Manager or similar system. Such similar system includes the state’s energy management platform specified by DEEP and DAS for use by state facilities, pursuant to CGS Sec. 16a-38i.	Ongoing	Ongoing

Appendix C.2 From the 2020 Plan Update Approval with Conditions⁴⁷

Item No.	Topic or Program	Condition of Approval	Due Date	Status
1	HES-IE Add-on Measures	The Companies are directed to develop and submit to DEEP for review and approval a plan to improve the performance of HES and HES-IE vendors who demonstrate low delivery rates of add-on measures. The improvement plan should list criteria for performance, evaluate vendor incentives for sufficiency, and include metrics for continuing participation in the HES-IE program.	07/01/2020	Filed on 06/23/20
2	HES-IE Add-on Measure Co-Pays	The Companies are directed to include all NEIs in Appendix 6 of the PSD in the TRC test applied to programs and copays for customers who are low-income.	Develop reporting by July 1, 2020, then file quarterly reports	Filed on 06/02/20
3	Use of Census Tract Information in HES	The Companies are directed to provide, for DEEP review and approval, a detailed proposal to coordinate with vendors to streamline eligibility for HES-IE utilizing census tract data in a manner that provides consumer protections and addresses privacy issues.	04/01/2020	Filed on 03/30/20
4	HES Application for Renters	The Companies are directed to examine and report to DEEP the statutory requirements for applications for renters for participation in residential programs, to ensure that the application provides a streamlined process while complying with legal requirements for landlord approval.	03/01/2020	In progress, requested extension until 04/01/2020 Filed on 03/31/20
5	HES-IE Application	The Companies are directed to submit their revised HES-IE program application and an outline of the application process to DEEP for review and approval as outlined in the January 15, 2020 response. The process outline should explain how other documentation can be utilized for qualification and how this can streamline the process.	03/01/2020	In progress, requested extension until 04/01/2020 Filed on 03/30/20

⁴⁷ DEEP, Approval with Conditions of the 2020 Plan Update to the 2019-2021 Plan (dated Nov. 11, 2019). Available at: https://www.ct.gov/deep/cwp/view.asp?a=4405&Q=490116&deepNav_GID=2121.

Item No.	Topic or Program	Condition of Approval	Due Date	Status
6	HES Insulation	The Companies are directed to submit a proposal to DEEP for review and approval for at least two options for increasing the adoption of insulation through the HES program. The proposal should identify the optimum incentive level. To the extent the optimum incentive level is limited by program rules such as the cost-effectiveness test, the Companies should note those issues.	04/01/2020	Filed on 03/27/20
7	Heat Pumps	The Companies are directed to submit a proposal for DEEP review and approval for increased incentive levels for heat pumps, with different proposals for air-source and ground-source heat pumps if necessary. 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. To the extent the optimum incentive level is limited by program rules such as the cost-effectiveness test, the Companies should note those issues.	04/01/2020	Filed on 04/01/20
8	Heat Pumps	The Companies are directed to provide a proposal for DEEP review and approval for ensuring that heat pumps installed in homes with a backup fossil fuel heating system are used as the primary heat source and that fossil fuel use in such applications is minimized. This proposal should include, but not be limited to: (1) ensuring the building envelope is optimized, (2) ensuring the heat pump is right sized for the heating load of the home, (3) ensuring technical controls are in place to allow for the heat pump to act as the primary heat source, (4) providing for behavioral training for renters and homeowners, and (5) providing for workforce training to ensure proper design, installation and homeowner education.	07/01/2020	Filed on 06/29/20
9	Heat Pump Water Heaters	The Companies are directed to identify ways to collect information on the reliability of heat pump water heaters. This should include information on contractor callbacks, customer satisfaction, and the cost of repairs. The Companies may direct relevant parts to evaluation studies that may be underway or planned.	07/01/2020	Filed on 06/29/20

Item No.	Topic or Program	Condition of Approval	Due Date	Status
10	DOE Home Energy Score	<ol style="list-style-type: none"> 1) The Companies are directed to establish a working group on the DOE Home Energy Score. 2) 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 success indicators. 3) As a component of the Report, the Companies shall submit recommendations on how to streamline rescoring homes after completing add-on measures by 7/1/2020. 4) 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 Home Energy Score is successfully generated (i.e., the Android must validate that the score is successfully generated). Once successful, any subsequent Home Energy Scores for a given address must use the “corrected” assessment type. 5) Metrics related to re-scoring shall be incorporated into the required Report. 	<p>Working group by April 1, 2020.</p> <p>Proposals and reports by July 1, 2020</p>	<p>This was deferred until 2021</p>
11	DOE Home Energy Score	<p>Propose a secondary metric to PMI on market transformation that motivates the companies to increase the number of score opt-ins.</p>	<p>Part of 2021 Plan Update Process</p>	<p>Similar to Item No. 10 will be deferred until the next three-year plan (2022 to 2024)</p>
12	Data Access	<p>All devices offered through the Plan should provide the necessary device data to the Companies and/or the Evaluation Administrator for the purpose of conducting evaluation studies. To the extent that an evaluation study is limited due to a lack data from the device manufacturer, the Companies must share that information with DEEP and request permission if they wish to continue to use that device in the 2019-2021 Plan.</p>	<p>07/01/2020</p>	<p>Filed on 06/29/20</p>

APPENDIX C: COMPLIANCE ORDERS

Item No.	Topic or Program	Condition of Approval	Due Date	Status
13	Website - Incentives	The Companies are directed to make incentives easier to access on the website. Specifically, the dollar amount of incentives should be available to the customer on the website, prior to participating in a HES audit. To the extent that incentives are contingent upon, or increased by participating HES, the website should note that clearly.	07/01/2020	Filed on 06/25/20
14	Wi-Fi Thermostat	The Companies shall develop a plan to only allow incentives to particular smart thermostats that have demonstrated energy savings through an impact evaluation via Energize CT or a program similarly designed.	07/01/2020	Filed on 05/27/20
15	Elimination of the Residential Behavior Program	Eversource shall reallocate the funds from the Residential Behavior program to the conversion of electric resistance heated homes to electric heat pumps pursuant to Order 22 below.	Part of March 1, 2020 filing	Completed, included in 2020 Plan Updated filed 3/1/2020
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
17	Heat Pump Pilot	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.	For March 30, 2020 and then ongoing quarterly	Filed on 03/30/20 Filed on 06/25/20 Filed on 09/23/20
18	Quarterly Reports	The Companies, consultants, and DEEP will develop a set of quarterly data reports required for program oversight. The Companies are directed to submit a list to DEEP for review and approval for March 2020 results.	For March 30, 2020 data and then ongoing quarterly	Filed on 06/30/20

Item No.	Topic or Program	Condition of Approval	Due Date	Status
19	New Construction	<p>For the 2019 Residential New Construction, Additions and Major Renovations program:</p> <p>1) Provide a presentation that lists: a) the number of incentives for gas appliances/measures, b) annual savings for those measures, c) lifetime savings for those measures, and d) the effective useful lives used to calculate lifetime savings for individual measures; and</p> <p>2) Provide a status report of the All Electric Package and the Building Certification and Additional Incentives outlined in the 2019-2021 Plan.</p>	04/01/2020	Filed on 03/27/20
20	New Construction	Provide an analysis of programs in other states that limit incentives to all electric homes for new construction, and recommendations, barriers, or challenges to adopting such an approach in Connecticut.	04/01/2020	Filed on 03/30/20
21	New Construction	Provide a memo that reports on the status and discusses the incentives and other resources that could be used to increase support for the Zero Energy Ready Home program. Include information about programs in surrounding states, such as Rhode Island.	04/01/2020	Filed on 03/27/20
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.</p> <p>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.</p> <p>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 the applicability of Seattle City Light’s Energy Efficiency as a Service pilot program.</p>	07/01/2020	Filed on 06/29/20

APPENDIX C: COMPLIANCE ORDERS

Item No.	Topic or Program	Condition of Approval	Due Date	Status
23	Outreach on Efficiency Incentives to Crumbling Foundations Customers	The Companies are ordered to coordinate with the 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.	Immediate	In progress, reached out to DOH, requested extension until 04/01/2020 Filed on 03/27/20
24	Cost-Effectiveness Testing	Going forward, all fuel savings shall be counted in program cost-effectiveness testing.	Ongoing	Filed on 03/25/20 Filed on 04/29/20

Appendix C.3 COVID-19 Compliance Orders

The 2020 program year provided a unique necessity to implement a variety of initiatives to support both our customers and contractors: Listed below is summary of the items that were completed between March and September 2020:

Item No.	Topic or Program	Condition of Approval
1	Increase Program Incentives (including reduced customer co-payments)	The Companies will increase program incentives, including reduced customer co-payments, to allow contractors to market energy-saving products and services to customers (previous, existing and prospective) and build their pipeline.
2	Provide a Percentage of Completion Payments	<p>The Companies will provide a percentage of completion payments on projects that have been initiated. The Companies will develop specific protocol for projects in varying stages:</p> <p>Stage 1: Material delivered to a customer’s site (but not yet installed). Equipment must have been ordered prior to March 23, 2020; and</p> <p>Stage 2: A portion of the measures were installed (material and labor with the ability to claim energy savings).</p>
3	Explore Deferring Loan Repayments	<p>Starting April 1, 2020, the Companies will explore deferring loan repayments for three (3) months and extend the loan term commensurately. Eligible loan programs will include:</p> <ul style="list-style-type: none"> • HES Repayment Plan (Micro) Loan; • Smart-E Loan; • Energize CT Heating Loan; and • Small Business/Municipal Loan.
4	Explore Online Workforce Training Options	The Companies will explore opportunities to leverage online workforce training options and support training costs. The Companies are coordinating across their multi-state territories and with other Program Administrators to leverage available training and education funds.
5	Explore Virtualization of Processes	<p>The Companies will support the virtualization of processes, such as audits and inspections, to allow projects to be completed.</p> <p>Virtual Pre-Assessment Modification No. 6 states:</p> <p>DEEP appreciates the comments by Northeast Energy Efficiency Partnerships (“NEEP”) directing DEEP’s attention to the benefits of the Energy Estimator tool utilized by NEEP that could provide a platform for increased collaboration and info-sharing between vendors and the Companies. The Energy Estimator tool is designed to support both remote assessments of homes and the Home Energy Score. DEEP continues to see significant merit in the Home Energy Score, and therefore DEEP is interested in whether the Energy Estimator Tool might assist the Companies in their Home Energy Score determinations. DEEP requests the Companies submit a letter to DEEP evaluating the Energy Estimator tool by July 1, 2020.</p>

Item No.	Topic or Program	Condition of Approval
5 (cont.)	Explore Virtualization of Processes (continued)	<p>Virtual Pre-Assessment Modification No. 8 states:</p> <p>The Companies shall evaluate additional program models that use remote audits/assessments for delivering whole-home residential energy savings. Sealed Inc. commented that it has conducted 3,000 remote home energy audits including over 900 in Q1 2020. Given that there are companies, like Sealed Inc., that have experience with remote audits, and that there are some Home Energy Solutions (“HES”) vendors that may not be interested in participating in the Virtual Pre-Assessments approved herein, DEEP directs the Companies to evaluate the viability of utilizing companies with this experience, in addition to the current procedures. This evaluation shall be submitted to DEEP on July 1, 2020, in conjunction with Appendix A, Item No. 1 from the DEEP approval of the 2020 Plan Update to the 2019-2021 Plan regarding improving the performance of HES vendors in implementing add-on measures.</p>
6	Establish Cross-Sector Mitigation Working Group	<p>The Companies will convene a cross-sector mitigation working group with a subset of vendors from the Residential Energy Efficiency Portfolio and from the C&I Small Business Energy Advantage program to help brainstorm additional ideas and receive immediate feedback from the vendor community.</p>
7	Provide Information to Vendors Regarding Relief Programs and Safety	<p>The Companies will provide information on federal, state, and utility small business relief programs, initiatives, and contractor safety practices on the EnergizeCT.com Frequently Asked Questions (“FAQs”) webpage.</p>
8	Modifications to Vendor Purchase Order Payments	<p>The Companies will explore their ability to modify vendor purchase order payment terms to expedite payments to contractors and suppliers.</p>
9	Marketing & Communications	<p>Provide Consistent Messaging to Vendors and Customers. The Companies will revise marketing messages and communications throughout the program suspension period. The Companies are committed to communicating all program changes including opportunities to participate in safety, savings, and behavioral changes to customers, over the coming days.</p> <p>Increase Marketing in Future Months. After the time period of reduced market activity, the Companies will need to provide significant marketing support and increased incentives to customers to participate.</p>
10	Explore Distance Learning for Workforce Development	<p>The Companies will explore leveraging distance learning as an opportunity to educate students about energy efficiency and promote energy-saving opportunities to parents.</p>
11	New Approach for Customers: Energy-Saving Self-Installation Package	<p>The Companies could distribute energy-saving self-installation packages to customers. Literature promoting other energy-efficient measures that could be self-installed, such as Wi-Fi thermostats at an increased discount, would be cross-promoted.</p>

Item No.	Topic or Program	Condition of Approval
12	Promote Energy-Saving Tips (including Behavioral)	Given that customers will be spending the next several weeks at home, the Companies could consider publishing a series of relevant, behavioral tips that can help customers and families conserve energy while at home.
13	Help Customers Enroll and Plan for Projects Later in the Year	The Companies could encourage customers to visit their respective utility’s website and complete an online home energy assessment or customer engagement energy savings plan. These online interactions would offer customers a better understanding of their energy use and provide them with immediate actions they can take in the short term, and recommendations and actions they can take in the future. Online interactions would also provide the Companies with data that may be used to target and better-serve customers at a later date. Eversource customers may also build a plan to save with the Eversource Energy Savings Plan.
14	Modify Inspection Procedures	As appropriate, the Companies could modify inspection procedures on completed measures where customers have closed the site to visitors and require supplemental measurement and verification (“M&V”) in place of on-site inspections to complete payments on these projects. Customers would be asked to provide additional documentation.
15	Continue to Build Projects (multifamily and single-family add-on measures) in the Pipeline	The Companies could continue to review and approve projects in the program pipelines, as well as provide financial guidance for future work to be completed following a return to normalcy in site access.
16	Multifamily Projects	<p>Support Partial Payment of Multifamily Projects. The Companies would support a partial payment of multifamily projects based on measures installed to date and relax the expiration on the incentive offer for measures unable to be installed at this time.</p> <p>Relax Agreement and Rebate Expiration Dates and Incentive Protocols for Multifamily Projects. The Companies could relax agreement and rebate expiration dates and incentive protocols for multifamily projects. The Companies plan to review customers at risk for missing installation deadlines due to reduced site access by contractors or work stoppages and extend the expiration dates of incentive offers. Additionally, the Companies will review the requirements for multi-measure projects that may be impacted by limited site access and adjust accordingly while maintaining the integrity of program’s commitment to comprehensive strategies.</p> <p>Continue to Evaluate Proposals. The Companies could continue to evaluate proposals and build multifamily projects in the future job pipeline and will provide financial guidance for future work to be completed following a return to normalcy in site access.</p>

Item No.	Topic or Program	Condition of Approval
17	Support Partial Payment of Projects	The Companies could support partial payment of projects based on measures installed to date and relax the expiration on the incentive offer for measures unable to be installed at this time.
18	Relax Agreement Expiration Dates and Incentive Protocols	The Companies plan to review customers at risk for missing installation deadlines due to reduced site access by vendors or work stoppages and extend the expiration dates of incentive offers accordingly. Additionally, the Companies will review the requirements for multi-measure projects that may be impacted by limited site access and adjust accordingly while maintaining the integrity of program's commitment to comprehensive strategies.
19	Continue to Build Projects in the Pipeline	The Companies plan to continue to build projects in the pipeline and provide financial guidance for future work to be completed following a return to normalcy in site access.
20	Modify Inspection Protocol on Completed Projects	The Companies plan to modify inspection protocols on completed projects where customers have closed the site to visitors and require supplemental M&V in place of on-site inspections to complete payments on these projects.
21	Support Remote Evaluation Activities	The Companies would continue to support remote evaluation activities, such as phone or web-based surveys or interviews will continue on a case-by-case basis. Process type evaluations will continue.
22	Review Mid-Stream Evaluation Activities	The Companies would review mid-stream evaluation activities, such as shelf stocking surveys at retailers, and discuss them on a case-by-case basis with a consensus decision between the Companies' evaluation staff and evaluation third-party contractors.

Appendix C.4 From the 2021 Plan Update Approval with Conditions⁴⁸

Item No.	Topic or Program	Condition of Approval	Due Date	Status
1	Equity Metrics	The Utilities and the EEB have been working to develop secondary metrics to reflect the ongoing work to examine equity within the C&LM Plan. The Utilities shall finalize those 2021 Plan secondary metrics, subject to DEEP approval, by March 1, 2021. Additionally, the Utilities 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.	3/1/2021	Included in 2021 PMI tables in 2021 Plan Update (filed 3/1/2021)
2	HES Vendor Scorecard	<p>The Utilities 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.</p> <p>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.</p>	<p>4/1/2021</p> <p>7/1/2021</p>	
3	Pay-for-Performance Pilot	<p>DEEP is considering a stakeholder proceeding to explore best practices for implementing pay for performance. The Utilities 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 Utilities 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 C&LM Plan 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</p>	4/1/2021	

⁴⁸ DEEP, Draft Approval with Conditions of the 2021 Plan Update to the 2019-2021 Plan (filed Nov. 1, 2020).

Item No.	Topic or Program	Condition of Approval	Due Date	Status
6	HES and HES-IE Renter Data Collection	<p>The Utilities 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 Utilities 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 Utilities 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>4/1/2021</p> <p>6/30/2021</p>	
7	Crumbling Foundation Customer Outreach	<p>In furtherance of Compliance Condition No. 23 of the 2020 Plan Update, the utilities shall coordinate with the 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 Utilities shall provide a report to DEEP no later than April 1, 2021.</p>	4/1/2021	
8	Heat Pump Pilot Increased Participation	<p>The Utilities 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.</p>	4/1/2021	
9	Electric Resistance Customer Conversion to Heat Pump Reporting	<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.</p> <p>The Utilities 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 three-year plan.</p>	<p>3/31/2021</p> <p>7/1/2021</p>	

Item No.	Topic or Program	Condition of Approval	Due Date	Status
10	Evaluation Penalty Metric	<p>There have been significant delays in conducting evaluation studies due to contracting and data availability. DEEP recognizes that the Utilities 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. The evaluation administrator shall submit a report to the EEB Evaluation Committee and DEEP once per quarter on any delays. DEEP directs the Utilities to add a penalty metric in the 2021 PMI.</p> <p>A utility will be penalized \$10,000 plus the additional cost associated with the delay for missing a deadline by more than 30 calendar days. For each subsequent 10 calendar day delay the penalty will increase by another \$10,000 until such matter is resolved. The Utilities are given four weeks to fulfill impacting 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 Utilities have 90 days to execute a contract once the required documentation has been submitted. The Utilities must notify the evaluation administrator within 10 business days if the documentation is not complete. The evaluation administrator, in consultation with DEEP, may revise a deadline. This penalty will be assessed against the other PMI earnings. Timely performed evaluation studies are key to the continuous improvement of the C&LM programs and delayed studies have a financial cost.</p>	3/1/2021	<p>Filed 3/1/2021</p> <p>Included in 2021 PMI tables in 2021 Plan Update (filed 3/1/2021). Per follow-up with DEEP, included is a Performance Metric in lieu of Penalty Metric</p>
11	Demand Response Program Reporting	<p>The Utilities shall propose updates to DEEP for review and approval, as needed, to align the C&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>	TBD	
12	Suspension of Municipal Engagement RFP	<p>DEEP appreciates the efforts of the Utilities to engage communities and local governments in the C&LM Plan. Further, DEEP recognizes the efforts of the Utilities to engage municipalities in C&LM outreach to local communities through a release of a request for proposals (RFP). DEEP is planning to take additional steps to obtain public input on the Utilities’ proposed municipal engagement plan and RFP and directs the Utilities to hold the RFP until instructed for release by DEEP.</p>	TBD	

Item No.	Topic or Program	Condition of Approval	Due Date	Status
13	Distribution System & Grid Mod Planning Alignment	The Utilities shall propose updates to DEEP for review and approval, as needed, to align the C&LM Plan’s programs with the Distribution System Planning and Grid Modernization actions described in Public Utilities Regulatory Authority (PURA) dockets on those topics.	TBD	
14	ASHP and GSHP Soft Cost Examination	DEEP directs the Utilities to examine the soft costs of installing air source and ground source heat pumps. The Utilities 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 Utilities 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 three-year plan.	7/1/2021	
15	Residential EE Concierge Service Offering	The Utilities 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.	3/31/2021	
16	Induction Cooktop Pilot	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 Utilities, in consultation with the EEB, to submit to DEEP by June 1, 2021, 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.	6/1/2021	
17	CEE Super-Efficient Home Appliances Initiative	The Utilities 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 Utilities are encouraged to report on other CEE initiatives that may be considered in the next three-year plan.	TBD	

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APPENDIX D: BUDGET & SAVINGS TABLES

D.1. Budget Summary of the 2019-2023 Plan Program Years

Table A - 2019 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2019 Eversource CT Electric Actual Results 12/31/2019	2019 UI Actual Results 12/31/2019	2019 Eversource CT Gas Actual Results 12/31/2019	2019 CNG Actual Results 12/31/2019	2019 SCG Actual Results 12/31/2019	2019 Statewide Combined Total 12/31/2019
RESIDENTIAL						
Residential Retail Products	\$ 9,516,880	\$ 2,059,682	\$ -	\$ -	\$ -	\$ 11,576,561
Residential New Construction	\$ 2,032,944	\$ 794,687	\$ 887,551	\$ 345,274	\$ 498,505	\$ 4,558,961
Home Energy Solutions - Core Services	\$ 13,824,217	\$ 2,815,125	\$ 2,572,719	\$ 1,652,699	\$ 1,857,838	\$ 22,722,598
Home Energy Solutions - HVAC, Water Heaters	\$ 5,285,076	\$ 1,651,080	\$ 3,441,578	\$ 2,571,973	\$ 3,493,108	\$ 16,442,815
HES Income Eligible	\$ 15,993,834	\$ 4,180,741	\$ 3,404,495	\$ 4,515,924	\$ 3,049,996	\$ 31,144,990
Residential Behavior	\$ 1,001,199	\$ 31,917	\$ 414,553	\$ 29,744	\$ 29,770	\$ 1,507,183
Subtotal: Residential EE Portfolio	\$ 47,654,149	\$ 11,533,233	\$ 10,720,896	\$ 9,115,614	\$ 8,929,218	\$ 87,953,109
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$ 9,466,049	\$ 4,622,491	\$ 3,177,795	\$ 1,418,405	\$ 1,225,977	\$ 19,910,717
Total - Lost Opportunity	\$ 9,466,049	\$ 4,622,491	\$ 3,177,795	\$ 1,418,405	\$ 1,225,977	\$ 19,910,717
C&I LARGE RETROFIT						
Energy Opportunities	\$ 38,558,761	\$ 6,213,003	\$ 3,236,775	\$ 1,244,788	\$ 733,604	\$ 49,986,931
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 1,555,926	\$ 720,410	\$ 972,152	\$ 403,019	\$ 197,331	\$ 3,848,838
Total - C&I Large Retrofit	\$ 40,114,687	\$ 6,933,413	\$ 4,208,927	\$ 1,647,807	\$ 930,935	\$ 53,835,769
Small Business	\$ 8,951,760	\$ 2,298,231	\$ 220,886	\$ 252,653	\$ 216,506	\$ 11,940,036
Subtotal: C&I EE Portfolio	\$ 58,532,496	\$ 13,854,135	\$ 7,607,608	\$ 3,318,865	\$ 2,373,418	\$ 85,686,522
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$ 656,954	\$ 290,489	\$ 63,267	\$ 70,099	\$ 70,658	\$ 1,151,467
Customer Engagement	\$ 1,376,151	\$ -	\$ 201,756	\$ -	\$ -	\$ 1,577,907
Educate the Students	\$ 316,990	\$ 109,155	\$ 27,256	\$ 30,305	\$ 30,515	\$ 514,221
Educate the Workforce	\$ 53,937	\$ 58,431	\$ 5,699	\$ 16,112	\$ 16,111	\$ 150,290
Subtotal: Education & Engagement	\$ 2,404,033	\$ 458,075	\$ 297,978	\$ 116,516	\$ 117,284	\$ 3,393,886
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (Includes ECLF and OBR)	\$ 1,500,000	\$ 72,133	\$ 80,075	\$ 65,874	\$ 81,757	\$ 1,799,839
C&I Financing Support	\$ 17,569,775	\$ -	\$ 10,944	\$ -	\$ -	\$ 17,580,719
Research, Development & Demonstration	\$ 89,136	\$ 49,113	\$ 15,367	\$ 36,634	\$ 37,918	\$ 228,168
Subtotal: Programs/Requirements	\$ 19,158,911	\$ 121,246	\$ 106,386	\$ 102,508	\$ 119,675	\$ 19,608,726
OTHER - LOAD MANAGEMENT						
Residential Demand Response	\$ 760,192	\$ 853,276	\$ -	\$ -	\$ -	\$ 1,613,468
C&I Demand Response	\$ 719,003	\$ 79,988	\$ -	\$ -	\$ -	\$ 798,991
Subtotal: Load Management	\$ 1,479,196	\$ 933,264	\$ -	\$ -	\$ -	\$ 2,412,460
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$ 859,689	\$ 254,748	\$ 92,906	\$ 119,626	\$ 119,729	\$ 1,446,699
Marketing Plan	\$ 128,805	\$ 43,467	\$ 14,890	\$ 18,173	\$ 18,173	\$ 223,509
Planning	\$ 529,884	\$ 125,387	\$ 137,312	\$ 114,452	\$ 106,494	\$ 1,013,530
Evaluation Measurement and Verification	\$ 1,083,724	\$ 255,806	\$ 218,102	\$ 217,523	\$ 217,524	\$ 1,992,679
Evaluation Administrator	\$ 213,391	\$ 44,800	\$ 21,008	\$ 18,667	\$ 18,667	\$ 316,533
Information Technology	\$ 1,070,604	\$ 230,809	\$ 143,627	\$ 148,063	\$ 127,849	\$ 1,720,953
Energy Efficiency Board Consultants	\$ 318,423	\$ 74,087	\$ 34,965	\$ 30,847	\$ 30,847	\$ 489,169
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 114,000
Performance Management Incentive (PMI)	\$ 8,751,797	\$ 1,903,548	\$ 1,057,175	\$ 854,443	\$ 900,581	\$ 13,467,543
Subtotal: Admin/Planning Expenditures	\$ 13,016,318	\$ 2,956,652	\$ 1,729,985	\$ 1,531,794	\$ 1,549,865	\$ 20,784,613
TOTAL	\$ 142,245,101	\$ 29,856,605	\$ 20,462,853	\$ 14,185,297	\$ 13,089,459	\$ 219,839,316

Table A - 2020 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2020 Eversource CT Electric Actual Results 12/31/2020	2020 UI Actual Results 12/31/2020	2020 Eversource CT Gas Actual Results 12/31/2020	2020 CNG Actual Results 12/31/2020	2020 SCG Actual Results 12/31/2020	2020 Statewide Combined Total 12/31/2020
RESIDENTIAL						
Residential Retail Products	\$11,189,455	\$2,795,488	\$ -	\$ -	\$ -	\$13,984,943
Residential New Construction	\$2,717,016	\$423,435	\$489,620	\$470,451	\$463,333	\$4,563,855
Home Energy Solutions - Core Services	\$20,042,758	\$3,521,888	\$2,893,620	\$2,497,610	\$2,556,209	\$31,512,084
Home Energy Solutions - HVAC, Water Heaters	\$9,702,175	\$1,322,749	\$4,573,515	\$2,683,072	\$3,256,694	\$21,538,205
HES Income Eligible	\$14,316,611	\$2,076,231	\$4,303,596	\$96,254	\$1,680,548	\$22,473,240
Residential Behavior	\$ -	\$193,396	\$ -	\$151,126	\$151,126	\$495,648
Subtotal: Residential EE Portfolio	\$57,968,014	\$10,333,187	\$12,260,351	\$5,898,513	\$8,107,910	\$94,567,975
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$12,436,628	\$2,903,674	\$3,510,955	\$4,145,798	\$2,156,813	\$25,153,868
Total - Lost Opportunity	\$12,436,628	\$2,903,674	\$3,510,955	\$4,145,798	\$2,156,813	\$25,153,868
C&I LARGE RETROFIT						
Energy Opportunities	\$45,020,584	\$12,357,623	\$3,377,127	\$813,249	\$2,032,986	\$63,601,569
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$969,960	\$825,694	\$645,936	\$418,511	\$228,959	\$3,089,060
Total - C&I Large Retrofit	\$45,990,544	\$13,183,316	\$4,023,063	\$1,231,760	\$2,261,945	\$66,690,628
Small Business	\$5,382,744	\$3,913,845	\$125,273	\$118,716	\$237,722	\$9,778,300
Subtotal: C&I EE Portfolio	\$63,809,916	\$20,000,835	\$7,659,291	\$5,496,274	\$4,656,480	\$101,622,796
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$385,116	\$174,462	\$34,537	\$64,578	\$64,542	\$723,234
Customer Engagement	\$1,330,909	\$ -	\$197,010	\$ -	\$ -	\$1,527,919
Educate the Students	\$250,732	\$112,232	\$33,239	\$31,421	\$31,404	\$459,029
Educate the Workforce	\$363,120	\$77,660	\$42,041	\$24,597	\$25,847	\$533,265
Subtotal: Education & Engagement	\$2,329,876	\$364,354	\$306,829	\$120,596	\$121,793	\$3,243,448
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (Includes ECLF and OBR)	\$2,746,178	\$156,932	\$99,172	\$52,478	\$61,749	\$3,116,509
C&I Financing Support	\$3,103,714	\$ -	\$ -	\$ -	\$ -	\$3,103,714
Research, Development & Demonstration	\$136,027	\$25,859	\$15,680	\$20,164	\$20,163	\$217,893
Subtotal: Programs/Requirements	\$5,985,919	\$182,790	\$114,852	\$72,642	\$81,912	\$6,438,115
OTHER - LOAD MANAGEMENT						
Residential Demand Response	\$1,867,994	\$417,042	\$ -	\$ -	\$ -	\$2,285,037
C&I Demand Response	\$2,470,465	\$103,718	\$ -	\$ -	\$ -	\$2,574,184
Subtotal: Load Management	\$4,338,460	\$520,761	\$ -	\$ -	\$ -	\$4,859,221
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$981,537	\$248,807	\$121,815	\$81,470	\$80,628	\$1,514,257
Marketing Plan	\$321,900	\$16,987	\$35,467	\$10,696	\$9,312	\$394,362
Planning	\$549,296	\$226,791	\$136,377	\$114,343	\$114,343	\$1,141,151
Evaluation Measurement and Verification	\$1,920,000	\$478,388	\$200,000	\$197,792	\$200,835	\$2,997,015
Evaluation Administrator	\$227,298	\$52,475	\$25,798	\$21,866	\$21,865	\$349,302
Information Technology	\$1,019,170	\$156,309	\$122,356	\$97,802	\$78,797	\$1,474,434
Energy Efficiency Board Consultants	\$380,641	\$104,000	\$44,501	\$43,333	\$43,333	\$615,808
Audits - Financial and Operational	\$60,000	\$3,904	\$10,000	\$1,597	\$1,597	\$77,098
Performance Management Incentive (PMI)	\$7,770,609	\$993,299	\$1,277,162	\$727,765	\$629,890	\$11,398,726
Subtotal: Admin/Planning Expenditures	\$13,230,452	\$2,280,959	\$1,973,476	\$1,296,665	\$1,180,601	\$19,962,153
TOTAL	\$147,662,638	\$33,682,887	\$22,314,798	\$12,884,689	\$14,148,696	\$230,693,708

Table A - 2021 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2021 Eversource CT Electric Proposed Budget 3/01/2021	2021 UI Proposed Budget 3/01/2021	2021 Eversource CT Gas Proposed Budget 3/01/2021	2021 CNG Proposed Budget 3/01/2021	2021 SCG Proposed Budget 3/01/2021	2021 Statewide Combined Total 3/01/2021
RESIDENTIAL						
Residential Retail Products	\$6,802,282	\$1,834,499	\$ -	\$ -	\$ -	\$8,636,781
Residential New Construction	\$3,018,874	\$620,438	\$887,629	\$739,127	\$752,505	\$6,018,573
Home Energy Solutions - Core Services	\$20,990,119	\$3,600,244	\$1,949,441	\$2,842,878	\$2,438,604	\$31,821,286
Home Energy Solutions - HVAC, Water Heaters	\$7,924,546	\$1,939,467	\$3,096,217	\$2,321,127	\$3,269,078	\$18,550,435
HES Income Eligible	\$17,365,588	\$4,111,608	\$3,792,458	\$4,288,661	\$2,809,339	\$32,367,655
Residential Behavior	\$ -	\$381,584	\$ -	\$162,491	\$166,138	\$710,213
Subtotal: Residential EE Portfolio	\$56,101,409	\$12,487,841	\$9,725,745	\$10,354,285	\$9,435,663	\$98,104,942
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$13,118,589	\$4,266,953	\$3,815,820	\$2,200,847	\$1,811,859	\$25,214,069
Total - Lost Opportunity	\$13,118,589	\$4,266,953	\$3,815,820	\$2,200,847	\$1,811,859	\$25,214,069
C&I LARGE RETROFIT						
Energy Opportunities	\$40,299,431	\$7,736,838	\$3,555,712	\$1,251,158	\$1,188,421	\$54,031,559
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$3,763,514	\$1,176,686	\$592,154	\$725,292	\$531,797	\$6,789,442
Total - C&I Large Retrofit	\$44,062,944	\$8,913,524	\$4,147,865	\$1,976,450	\$1,720,218	\$60,821,002
Small Business	\$17,271,596	\$3,873,853	\$775,196	\$338,954	\$261,290	\$22,520,889
Subtotal: C&I EE Portfolio	\$74,453,130	\$17,054,330	\$8,738,881	\$4,516,252	\$3,793,368	\$108,555,960
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$956,574	\$327,634	\$123,642	\$76,089	\$76,089	\$1,560,028
Customer Engagement	\$1,668,000	\$275,000	\$232,000	\$100,000	\$100,000	\$2,375,000
Educate the Students	\$412,236	\$102,752	\$45,164	\$45,164	\$45,164	\$650,480
Educate the Workforce	\$790,423	\$141,467	\$36,774	\$67,473	\$67,473	\$1,103,609
Subtotal: Education & Engagement	\$3,827,233	\$846,852	\$437,581	\$288,726	\$288,726	\$5,689,118
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (Includes ECLF and OBR)	\$900,072	\$150,799	\$84,523	\$86,292	\$86,292	\$1,307,978
C&I Financing Support	\$2,501,339	\$85,000	\$93,905	\$20,000	\$75,000	\$2,775,245
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
Subtotal: Programs/Requirements	\$3,563,638	\$387,049	\$228,428	\$156,292	\$211,292	\$4,546,699
OTHER - LOAD MANAGEMENT						
Residential Demand Response	\$4,800,000	\$2,570,876	\$ -	\$ -	\$ -	\$7,370,876
C&I Demand Response	\$5,100,000	\$381,455	\$ -	\$ -	\$ -	\$5,481,455
Subtotal: Load Management	\$9,900,000	\$2,952,331	\$ -	\$ -	\$ -	\$12,852,331
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$902,597	\$273,109	\$150,933	\$159,218	\$159,219	\$1,645,077
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
Evaluation Measurement and Verification	\$1,920,000	\$480,000	\$200,000	\$200,000	\$200,000	\$3,000,000
Evaluation Administrator	\$210,542	\$52,635	\$21,931	\$21,931	\$21,931	\$328,970
Information Technology	\$1,839,097	\$458,164	\$140,726	\$140,589	\$140,590	\$2,719,165
Energy Efficiency Board Consultants	\$416,000	\$104,000	\$43,333	\$43,333	\$43,333	\$649,999
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
Performance Management Incentive (PMI)	\$6,913,829	\$1,584,066	\$888,370	\$718,107	\$646,714	\$10,751,086
Subtotal: Admin/Planning Expenditures	\$13,395,615	\$3,237,767	\$1,574,552	\$1,435,742	\$1,364,352	\$21,008,028
TOTAL	\$161,241,025	\$36,966,170	\$20,705,187	\$16,751,296	\$15,093,401	\$250,757,079

Table A - 2022 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2022 Eversource CT Electric Proposed Budget 3/01/2021	2022 UI Proposed Budget 3/01/2021	2022 Eversource CT Gas Proposed Budget 3/01/2021	2022 CNG Proposed Budget 3/01/2021	2022 SCG Proposed Budget 3/01/2021	2022 Statewide Combined Total 3/01/2021
RESIDENTIAL						
Residential Retail Products	\$4,893,973	\$1,664,166	\$ -	\$ -	\$ -	\$6,558,139
Residential New Construction	\$2,820,669	\$557,595	\$973,061	\$718,491	\$960,099	\$6,029,914
Home Energy Solutions - Core Services	\$19,603,218	\$2,972,548	\$2,140,527	\$3,085,781	\$1,713,168	\$29,515,243
Home Energy Solutions - HVAC, Water Heaters	\$7,413,044	\$1,782,255	\$3,385,934	\$1,934,362	\$3,131,423	\$17,647,018
HES Income Eligible	\$16,118,111	\$3,999,910	\$4,149,666	\$4,173,345	\$3,059,847	\$31,500,880
Residential Behavior	\$ -	\$359,951	\$ -	\$157,960	\$157,557	\$675,468
Subtotal: Residential EE Portfolio	\$50,849,015	\$11,336,425	\$10,649,188	\$10,069,940	\$9,022,095	\$91,926,662
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$12,789,674	\$3,824,904	\$4,609,686	\$2,139,401	\$1,735,217	\$25,098,882
Total - Lost Opportunity	\$12,789,674	\$3,824,904	\$4,609,686	\$2,139,401	\$1,735,217	\$25,098,882
C&I LARGE RETROFIT						
Energy Opportunities	\$38,159,951	\$6,927,859	\$4,295,478	\$1,216,319	\$1,142,985	\$51,742,592
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$3,511,997	\$1,047,004	\$715,350	\$705,043	\$509,310	\$6,488,703
Total - C&I Large Retrofit	\$41,671,947	\$7,974,863	\$5,010,828	\$1,921,362	\$1,652,295	\$58,231,295
Small Business	\$17,107,378	\$3,468,255	\$936,472	\$329,491	\$250,242	\$22,091,837
Subtotal: C&I EE Portfolio	\$71,569,000	\$15,268,022	\$10,556,986	\$4,390,253	\$3,637,754	\$105,422,015
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$956,574	\$327,634	\$123,642	\$76,089	\$76,089	\$1,560,028
Customer Engagement	\$1,668,000	\$275,000	\$232,000	\$100,000	\$100,000	\$2,375,000
Educate the Students	\$412,236	\$102,752	\$45,164	\$45,164	\$45,164	\$650,480
Educate the Workforce	\$790,423	\$141,467	\$36,774	\$67,473	\$67,473	\$1,103,609
Subtotal: Education & Engagement	\$3,827,233	\$846,852	\$437,581	\$288,726	\$288,726	\$5,689,118
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (Includes ECLF and OBR)	\$900,072	\$150,799	\$84,523	\$86,292	\$86,292	\$1,307,978
C&I Financing Support	\$2,501,339	\$85,000	\$93,905	\$20,000	\$75,000	\$2,775,245
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
Subtotal: Programs/Requirements	\$3,563,638	\$387,049	\$228,428	\$156,292	\$211,292	\$4,546,699
OTHER - LOAD MANAGEMENT						
Residential Demand Response	\$2,668,564	\$2,570,876	\$ -	\$ -	\$ -	\$5,239,441
C&I Demand Response	\$3,132,663	\$575,156	\$ -	\$ -	\$ -	\$3,707,819
Subtotal: Load Management	\$5,801,227	\$3,146,032	\$ -	\$ -	\$ -	\$8,947,259
OTHER - ADMINISTRATIVE & PLANNING						
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
Evaluation Measurement and Verification	\$1,920,000	\$480,000	\$200,000	\$200,000	\$200,000	\$3,000,000
Evaluation Administrator	\$210,542	\$52,635	\$21,931	\$21,931	\$21,931	\$328,970
Information Technology	\$1,839,097	\$458,164	\$140,726	\$140,589	\$140,590	\$2,719,165
Energy Efficiency Board Consultants	\$416,000	\$104,000	\$43,333	\$43,333	\$43,333	\$649,999
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
Performance Management Incentive (PMI)	\$6,363,241	\$1,460,924	\$1,011,740	\$699,641	\$621,101	\$10,156,647
Subtotal: Admin/Planning Expenditures	\$12,845,027	\$3,122,154	\$1,697,922	\$1,417,277	\$1,338,739	\$20,421,119
TOTAL	\$148,455,140	\$34,106,534	\$23,570,105	\$16,322,487	\$14,498,605	\$236,952,872

Table A - 2023 Combined Budgets (Electric and Natural Gas)

Statewide EE BUDGET	2023 Eversource CT Electric Proposed Budget 3/01/2021	2023 UI Proposed Budget 3/01/2021	2023 Eversource CT Gas Proposed Budget 3/01/2021	2023 CNG Proposed Budget 3/01/2021	2023 SCG Proposed Budget 3/01/2021	2023 Statewide Combined Total 3/01/2021
RESIDENTIAL						
Residential Retail Products	\$4,489,390	\$1,539,409	\$ -	\$ -	\$ -	\$6,028,799
Residential New Construction	\$2,587,485	\$515,794	\$989,074	\$721,424	\$974,807	\$5,788,584
HES - Core Services	\$17,982,623	\$2,793,705	\$2,175,751	\$3,098,381	\$1,739,412	\$27,789,872
HES - HVAC, Water Heaters	\$6,800,210	\$1,648,645	\$3,441,653	\$1,942,260	\$3,175,800	\$17,008,568
HES-Income Eligible	\$14,284,692	\$3,689,424	\$4,217,953	\$4,187,832	\$3,106,721	\$29,486,621
Residential Behavior	\$ -	\$343,592	\$ -	\$158,605	\$159,971	\$662,168
Subtotal: Residential EE Portfolio	\$46,144,400	\$10,530,568	\$10,824,431	\$10,108,502	\$9,156,712	\$86,764,612
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$11,732,355	\$3,580,062	\$4,685,543	\$2,148,136	\$1,761,799	\$23,907,895
Total - Lost Opportunity	\$11,732,355	\$3,580,062	\$4,685,543	\$2,148,136	\$1,761,799	\$23,907,895
C&I LARGE RETROFIT						
Energy Opportunities	\$35,294,351	\$6,408,188	\$4,366,196	\$1,221,221	\$1,155,623	\$48,445,578
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$3,221,661	\$968,513	\$727,122	\$707,922	\$517,112	\$6,142,329
Total - C&I Large Retrofit	\$38,516,011	\$7,376,701	\$5,093,317	\$1,929,143	\$1,672,735	\$54,587,907
Small Business	\$15,693,114	\$3,208,250	\$951,883	\$330,836	\$254,076	\$20,438,159
Subtotal: C&I EE Portfolio	\$65,941,481	\$14,165,013	\$10,730,743	\$4,408,115	\$3,688,609	\$98,933,961
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$956,574	\$327,634	\$123,642	\$76,089	\$76,089	\$1,560,028
Customer Engagement	\$1,668,000	\$275,000	\$232,000	\$100,000	\$100,000	\$2,375,000
Educate the Students	\$412,236	\$102,752	\$45,164	\$45,164	\$45,164	\$650,480
Educate the Workforce	\$790,423	\$141,467	\$36,774	\$67,473	\$67,473	\$1,103,609
Subtotal: Education & Engagement	\$3,827,233	\$846,852	\$437,581	\$288,726	\$288,726	\$5,689,118
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (Includes ECLF and OBR)	\$900,072	\$150,799	\$84,523	\$86,292	\$86,292	\$1,307,978
C&I Financing Support	\$2,501,339	\$85,000	\$93,905	\$20,000	\$75,000	\$2,775,245
Research, Development & Demonstration	\$162,227	\$151,250	\$50,000	\$50,000	\$50,000	\$463,477
Subtotal: Programs/Requirements	\$3,563,638	\$387,049	\$228,428	\$156,292	\$211,292	\$4,546,699
OTHER - LOAD MANAGEMENT						
Residential Demand Response	\$2,668,564	\$2,570,876	\$ -	\$ -	\$ -	\$5,239,441
C&I Demand Response	\$3,132,663	\$575,156	\$ -	\$ -	\$ -	\$3,707,819
Subtotal: Load Management	\$5,801,227	\$3,146,032	\$ -	\$ -	\$ -	\$8,947,259
OTHER - ADMINISTRATIVE & PLANNING						
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	\$1,920,000	\$480,000	\$200,000	\$200,000	\$200,000	\$3,000,000
Evaluation Administrator	\$210,542	\$52,635	\$21,931	\$21,931	\$21,931	\$328,970
Information Technology	\$1,839,097	\$458,164	\$140,726	\$140,589	\$140,590	\$2,719,165
EEB Consultants	\$416,000	\$104,000	\$43,333	\$43,333	\$43,333	\$649,999
Audits - Financial and Operational	\$60,000	\$24,000	\$10,000	\$10,000	\$10,000	\$114,000
PMI	\$5,898,295	\$1,375,025	\$1,027,445	\$702,267	\$629,534	\$9,632,566
Subtotal: Admin./Plan Expenditures	\$12,380,081	\$3,036,255	\$1,713,626	\$1,419,903	\$1,347,172	\$19,897,038
TOTAL	\$137,658,060	\$32,111,770	\$23,934,809	\$16,381,537	\$14,692,511	\$224,778,687

Table B – Statewide Electric and Natural Gas Costs and Benefits (2020)

2020	Costs (\$'000)			Costs (\$'000) Gas			Benefits (\$'000)			Benefit Cost Ratios			Electric Savings		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	
Statewide															
Residential															
Retail Products	10,599	10,599	20,586			26,450	23,179	30,667	2.50	2.19	1.49	35,420	160,961	4,720	
New Construction	3,516	3,959	8,724	2,902	7,548	27,008	40,133	51,185	4.21	5.85	3.15	4,884	82,480	1,703	
Home Energy Solutions	12,918	25,631	31,685	7,190	8,516	41,239	95,687	130,621	2.05	2.92	3.25	15,335	153,590	3,935	
HVAC	10,844	10,844	24,687	9,621	26,452	40,165	50,515	67,283	1.96	2.47	1.32	7,440	116,139	2,507	
HES - Income Eligible	15,665	21,862	22,171	12,342	12,427	32,567	47,692	71,091	1.16	1.39	2.05	16,546	140,643	1,773	
Behavior	225	225	225	367	367	1,113	1,113	1,645	1.88	1.88	2.78	1,085	2,723	0	
Subtotal: Residential EE Portfolio	53,765	73,120	108,078	32,472	55,309	168,542	258,370	352,492	1.96	2.45	2.16	80,711	656,536	14,638	
Commercial & Industrial															
Energy Conscious Blueprint	19,101	19,101	26,083	8,971	11,701	110,530	110,324	144,684	3.94	3.93	3.83	39,263	615,346	6,573	
Energy Opportunities	53,207	53,207	119,286	6,935	18,961	254,724	252,604	326,234	4.24	4.20	2.36	129,744	1,505,270	16,434	
BES	5,295	5,295	10,277	2,087	4,339	25,298	25,345	39,992	3.43	3.43	2.74	14,547	94,136	2,298	
Small Business	23,198	23,198	42,865	1,488	2,902	103,465	101,795	131,449	4.19	4.12	2.87	51,608	647,002	6,678	
Subtotal: C&I EE Portfolio	100,801	100,801	198,511	19,482	37,902	494,018	490,069	642,359	4.11	4.07	2.72	235,162	2,861,755	31,983	
Residential DR	5,363	5,363	5,363										9,003		
C&I DR	4,861	4,861	4,861										30,794		
Subtotal: DR	10,224	10,224	10,224											39,797	
Subtotal: Other	27,704	27,704	27,704	6,171	6,171										
TOTAL	192,494	211,849	344,517	58,075	99,382	662,560	748,389	994,851	2.64	2.77	2.24	315,873	3,518,291	86,418	

Table B – Statewide Electric and Natural Gas Costs and Benefits (2020) (continued)

2020	Gas Savings			Oil/Propane Savings					Emissions Savings			
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)	Annual MMBTU	Life Time MMBTU	Annual Tons CO2	Lifetime Tons CO2	
Residential												
Retail Products				-261,124	-877,431	-8,749	-41,855	83,838	423,685	12,597	63,000	
New Construction	399,566	9,248,623	3,753	0	0	227,551	4,668,998	78,562	1,659,526	6,875	140,284	
Home Energy Solutions	567,775	11,858,139	4,840	780,528	16,347,162	80,596	1,711,778	226,360	4,167,777	22,030	387,556	
HVAC	810,214	16,161,989	7,245	152,710	2,184,273	97,506	1,301,034	138,842	2,481,094	11,964	205,637	
HES - Income Eligible	940,340	20,060,402	9,230	273,873	5,697,618	6,937	154,581	191,834	3,348,409	19,242	288,309	
Behavior	200,160	600,480	0	0	0	0	0	24,298	71,081	2,011	5,048	
Subtotal: Residential EE Portfolio	2,918,054	57,929,634	25,069	945,987	23,351,621	403,841	7,794,537	743,735	12,151,572	74,720	1,089,833	
Commercial & Industrial												
Energy Conscious Blueprint	1,069,515	16,600,174	7,270	0	0	0	0	244,018	3,807,719	26,584	413,219	
Energy Opportunities	1,125,500	12,940,596	7,954	0	0	0	0	558,501	6,467,570	69,933	809,841	
BES	1,295,885	7,738,123	4,108	0	0	0	0	182,981	1,117,445	15,287	98,645	
Small Business	196,154	2,458,277	1,663	508	6,091	0	0	196,342	2,461,373	25,445	318,760	
Subtotal: C&I EE Portfolio	3,687,053	39,737,169	20,996	508	6,091	0	0	1,181,843	13,854,107	137,250	1,640,466	
Residential DR												
C&I DR												
Subtotal: DR												
Subtotal: Other												
TOTAL	6,605,107	97,666,803	46,065	946,494	23,357,713	403,841	7,794,537	1,925,577	26,005,679	211,970	2,730,299	

Table B – Statewide Electric and Natural Gas Costs and Benefits (2021)

2021 Statewide	Costs (\$000)			Costs (\$000) Gas		Benefits (\$000)		
	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit
Residential								
Retail Products	8,636	8,636	15,166	-	-	18,601	15,782	19,995
New Construction	3,211	3,639	9,068	2,379	3,334	25,163	37,967	50,011
Home Energy Solutions	11,067	24,590	27,127	7,231	7,425	35,998	95,581	129,447
HVAC	9,864	9,864	21,587	8,686	23,220	28,937	39,363	55,942
HES - Income Eligible	13,079	21,478	23,802	10,890	10,956	24,423	47,507	99,192
Behavior	381	381	381	329	329	942	942	1,309
Subtotal: Residential EE Portfolio	46,238	68,587	97,131	29,516	45,264	134,065	237,142	355,896
Commercial & Industrial								
Energy Conscious Blueprint	17,386	17,386	25,430	7,829	14,402	87,588	87,096	114,998
Energy Opportunities	48,036	48,036	128,328	5,995	13,434	151,769	149,283	195,957
BES	4,941	4,941	9,260	1,849	3,914	14,499	14,499	25,547
Small Business	21,146	21,146	44,304	1,375	2,413	67,734	66,448	87,434
Subtotal: C&I EE Portfolio	91,508	91,508	207,322	17,049	34,162	321,590	317,326	423,936
Residential DR	7,371	7,371	7,371	-	-	-	-	-
C&I DR	5,481	5,481	5,481	-	-	-	-	-
Subtotal: DR	12,852	12,852	12,852	-	-	-	-	-
Subtotal: Other	25,259	25,259	25,259	5,986	5,986	-	-	-
TOTAL	175,858	198,206	342,564	52,550	85,412	455,655	554,468	779,831

2021 Statewide	Benefit Cost Ratios			Electric Savings			Gas Savings		
	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)
Residential									
Retail Products	2.15	1.83	1.32	33,369	114,890	4,452	-	-	-
New Construction	4.50	6.31	4.03	3,819	75,681	1,253	443,276	10,640,552	3,794
Home Energy Solutions	1.97	3.00	3.75	9,705	107,117	2,870	594,102	12,692,352	8,311
HVAC	1.56	2.12	1.25	4,833	76,230	1,126	812,496	15,942,701	7,465
HES - Income Eligible	1.02	1.47	2.85	9,311	75,955	1,197	785,109	15,736,741	5,731
Behavior	1.33	1.33	1.84	812	1,624	0	212,170	424,339	0
Subtotal: Residential EE Portfolio	1.77	2.42	2.50	61,850	451,497	10,897	2,847,152	55,436,684	25,301
Commercial & Industrial									
Energy Conscious Blueprint	3.47	3.45	2.89	31,761	449,847	5,234	869,110	13,538,909	6,454
Energy Opportunities	2.81	2.76	1.38	82,701	906,036	9,755	857,839	9,497,926	6,510
BES	2.14	2.14	1.94	7,904	48,499	1,182	893,602	4,812,815	1,128
Small Business	3.01	2.95	1.87	39,732	441,243	4,133	146,840	1,842,839	1,487
Subtotal: C&I EE Portfolio	2.96	2.92	1.76	162,098	1,845,625	20,304	2,767,391	29,692,489	15,580
Residential DR	-	-	-	-	-	16,575	-	-	-
C&I DR	-	-	-	-	-	51,598	-	-	-
Subtotal: DR	-	-	-	-	-	68,173	-	-	-
Subtotal: Other	-	-	-	-	-	-	-	-	-
TOTAL	1.99	2.21	1.82	223,948	2,297,122	99,374	5,614,544	85,129,173	40,880

Table B – Statewide Electric and Natural Gas Costs and Benefits (2021) (continued)

2021 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
Residential								
Retail Products	-262,887	-716,382	-7,455	-33,863	76,714	289,558	11,660	43,353
New Construction	-	-	215,682	4,330,114	78,343	1,748,605	6,655	145,895
Home Energy Solutions	808,766	16,508,016	88,463	1,828,844	214,494	4,128,052	20,789	388,849
HVAC	145,002	2,127,141	87,437	1,214,589	128,193	2,306,541	11,101	194,664
HES - Income Eligible	314,319	6,637,579	27,890	592,419	158,698	2,853,140	13,993	239,227
Behavior	-	-	-	-	24,603	49,206	1,570	3,140
Subtotal: Residential EE Portfolio	1,005,200	24,556,355	412,017	7,932,103	681,044	11,375,102	65,768	1,015,128
Commercial & Industrial								
Energy Conscious Blueprint	-	-	-	-	197,799	2,928,031	21,640	315,670
Energy Opportunities	-	-	-	-	370,447	4,068,731	45,195	495,553
BES	-	-	-	-	118,922	660,717	10,474	59,004
Small Business	477	5,718	-	-	150,741	1,695,942	19,692	220,275
Subtotal: C&I EE Portfolio	477	5,718	-	-	837,909	9,353,422	97,001	1,090,502
Residential DR	-	-	-	-	-	-	-	-
C&I DR	-	-	-	-	-	-	-	-
Subtotal: DR	-	-	-	-	-	-	-	-
Subtotal: Other	-	-	-	-	-	-	-	-
TOTAL	1,005,677	24,562,073	412,017	7,932,103	1,518,953	20,728,524	162,768	2,105,631

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D.2. STATEWIDE ELECTRIC TABLES**Combined Electric Table A1 (2019)**

Eversource CT Electric/UI EE BUDGET	2019 Eversource CT Electric Actual Results 12/31/19	2019 UI Actual Results 12/31/19	2019 Eversource CT Electric/UI Combined Total 12/31/19
RESIDENTIAL			
Residential Retail Products	\$ 9,516,880	\$ 2,059,682	\$ 11,576,561
Residential New Construction	\$ 2,032,944	\$ 794,687	\$ 2,827,631
Home Energy Solutions - Core Services	\$ 13,824,217	\$ 2,815,125	\$ 16,639,342
Home Energy Solutions - HVAC, Water Heaters	\$ 5,285,076	\$ 1,651,080	\$ 6,936,156
HES-Income Eligible	\$ 15,993,834	\$ 4,180,741	\$ 20,174,575
Residential Behavior	\$ 1,001,199	\$ 31,917	\$ 1,033,116
Subtotal: Residential EE Portfolio	\$ 47,654,149	\$ 11,533,233	\$ 59,187,382
COMMERCIAL & INDUSTRIAL			
C&I LOST OPPORTUNITY			
Energy Conscious Blueprint	\$ 9,466,049	\$ 4,622,491	\$ 14,088,540
Total - Lost Opportunity	\$ 9,466,049	\$ 4,622,491	\$ 14,088,540
C&I LARGE RETROFIT			
Energy Opportunities	\$ 38,558,761	\$ 6,213,003	\$ 44,771,764
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 1,555,926	\$ 720,410	\$ 2,276,336
Total - C&I Large Retrofit	\$ 40,114,687	\$ 6,933,413	\$ 47,048,100
Small Business	\$ 8,951,760	\$ 2,298,231	\$ 11,249,991
Subtotal: C&I EE Portfolio	\$ 58,532,496	\$ 13,854,135	\$ 72,386,631
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	\$ 656,954	\$ 290,489	\$ 947,443
Customer Engagement	\$ 1,376,151	\$ -	\$ 1,376,151
Educate the Students	\$ 316,990	\$ 109,155	\$ 426,145
Educate the Workforce	\$ 53,937	\$ 58,431	\$ 112,368
Subtotal: Education & Engagement	\$ 2,404,033	\$ 458,075	\$ 2,862,108
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program (Includes ECLF and OBR)	\$ 1,500,000	\$ 72,133	\$ 1,572,133
C&I Financing Support	\$ 17,569,775	\$ -	\$ 17,569,775
Research, Development & Demonstration	\$ 89,136	\$ 49,113	\$ 138,249
Subtotal: Programs/Requirements	\$ 19,158,911	\$ 121,246	\$ 19,280,157
OTHER - LOAD MANAGEMENT			
Residential Demand Response	\$ 760,192	\$ 853,276	\$ 1,613,468
C&I Demand Response	\$ 719,003	\$ 79,988	\$ 798,991
Subtotal: Load Management	\$ 1,479,196	\$ 933,264	\$ 2,412,460
OTHER - ADMINISTRATIVE & PLANNING			
Administration	\$ 859,689	\$ 254,748	\$ 1,114,437
Marketing Plan	\$ 128,805	\$ 43,467	\$ 172,273
Planning	\$ 529,884	\$ 125,387	\$ 655,271
Evaluation Measurement and Verification	\$ 1,083,724	\$ 255,806	\$ 1,339,530
Evaluation Administrator	\$ 213,391	\$ 44,800	\$ 258,191
Information Technology	\$ 1,070,604	\$ 230,809	\$ 1,301,413
Energy Efficiency Board Consultants	\$ 318,423	\$ 74,087	\$ 392,510
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 8,751,797	\$ 1,903,548	\$ 10,655,345
Subtotal: Admin/Planning Expenditures	\$ 13,016,318	\$ 2,956,652	\$ 15,972,970
TOTAL	\$ 142,245,101	\$ 29,856,605	\$ 172,101,706

Combined Electric Table A1 (2020)

Eversource CT Electric/UI EE BUDGET	2020 Eversource CT Electric Actual Results 12/31/20	2020 UI Actual Results 12/31/20	2020 Eversource CT Electric/UI Combined Total 12/31/20
RESIDENTIAL			
Residential Retail Products	\$ 11,189,455	\$ 2,795,488	\$ 13,984,943
Residential New Construction	\$ 2,717,016	\$ 423,435	\$ 3,140,451
Home Energy Solutions - Core Services	\$ 20,042,758	\$ 3,521,888	\$ 23,564,645
Home Energy Solutions - HVAC, Water Heaters	\$ 9,702,175	\$ 1,322,749	\$ 11,024,924
HES-Income Eligible	\$ 14,316,611	\$ 2,076,231	\$ 16,392,842
Residential Behavior	\$ -	\$ 193,396	\$ 193,396
Subtotal: Residential EE Portfolio	\$ 57,968,014	\$ 10,333,187	\$ 68,301,201
COMMERCIAL & INDUSTRIAL			
C&I LOST OPPORTUNITY			
Energy Conscious Blueprint	\$ 12,436,628	\$ 2,903,674	\$ 15,340,302
Total - Lost Opportunity	\$ 12,436,628	\$ 2,903,674	\$ 15,340,302
C&I LARGE RETROFIT			
Energy Opportunities	\$ 45,020,584	\$ 12,357,623	\$ 57,378,207
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 969,960	\$ 825,694	\$ 1,795,654
Total - C&I Large Retrofit	\$ 45,990,544	\$ 13,183,316	\$ 59,173,860
Small Business	\$ 5,382,744	\$ 3,913,845	\$ 9,296,589
Subtotal: C&I EE Portfolio	\$ 63,809,916	\$ 20,000,835	\$ 83,810,751
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	\$ 385,116	\$ 174,462	\$ 559,578
Customer Engagement	\$ 1,330,909	\$ -	\$ 1,330,909
Educate the Students	\$ 250,732	\$ 112,232	\$ 362,964
Educate the Workforce	\$ 363,120	\$ 77,660	\$ 440,780
Subtotal: Education & Engagement	\$ 2,329,876	\$ 364,354	\$ 2,694,231
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program (Includes ECLF and OBR)	\$ 2,746,178	\$ 156,932	\$ 2,903,110
C&I Financing Support	\$ 3,103,714	\$ -	\$ 3,103,714
Research, Development & Demonstration	\$ 136,027	\$ 25,859	\$ 161,886
Subtotal: Programs/Requirements	\$ 5,985,919	\$ 182,790	\$ 6,168,710
OTHER - LOAD MANAGEMENT			
Residential Demand Response	\$ 1,867,994	\$ 417,042	\$ 2,285,037
C&I Demand Response	\$ 2,470,465	\$ 103,718	\$ 2,574,184
Subtotal: Load Management	\$ 4,338,460	\$ 520,761	\$ 4,859,221
OTHER - ADMINISTRATIVE & PLANNING			
Administration	\$ 981,537	\$ 248,807	\$ 1,230,344
Marketing Plan	\$ 321,900	\$ 16,987	\$ 338,887
Planning	\$ 549,296	\$ 226,791	\$ 776,087
Evaluation Measurement and Verification	\$ 1,920,000	\$ 478,388	\$ 2,398,388
Evaluation Administrator	\$ 227,298	\$ 52,475	\$ 279,773
Information Technology	\$ 1,019,170	\$ 156,309	\$ 1,175,480
Energy Efficiency Board Consultants	\$ 380,641	\$ 104,000	\$ 484,641
Audits - Financial and Operational	\$ 60,000	\$ 3,904	\$ 63,904
Performance Management Incentive (PMI)	\$ 7,770,609	\$ 993,299	\$ 8,763,908
Subtotal: Admin/Planning Expenditures	\$ 13,230,452	\$ 2,280,959	\$ 15,511,411
TOTAL	\$ 147,662,638	\$ 33,682,887	\$ 181,345,525

Combined Electric Table A1 (2021)

Eversource CT Electric/UI EE BUDGET	2021 Eversource CT Electric Proposed Budget 3/01/21	2021 UI Proposed Budget 3/01/21	2021 Eversource CT Electric/UI Combined Total 3/01/21
RESIDENTIAL			
Residential Retail Products	\$ 6,802,282	\$ 1,834,499	\$ 8,636,781
Residential New Construction	\$ 3,018,874	\$ 620,438	\$ 3,639,312
Home Energy Solutions - Core Services	\$ 20,990,119	\$ 3,600,244	\$ 24,590,363
Home Energy Solutions - HVAC, Water Heaters	\$ 7,924,546	\$ 1,939,467	\$ 9,864,013
HES-Income Eligible	\$ 17,365,588	\$ 4,111,608	\$ 21,477,196
Residential Behavior	\$ -	\$ 381,584	\$ 381,584
Subtotal: Residential EE Portfolio	\$ 56,101,409	\$ 12,487,841	\$ 68,589,249
COMMERCIAL & INDUSTRIAL			
C&I LOST OPPORTUNITY			
Energy Conscious Blueprint	\$ 13,118,589	\$ 4,266,953	\$ 17,385,543
Total - Lost Opportunity	\$ 13,118,589	\$ 4,266,953	\$ 17,385,543
C&I LARGE RETROFIT			
Energy Opportunities	\$ 40,299,431	\$ 7,736,838	\$ 48,036,269
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 3,763,514	\$ 1,176,686	\$ 4,940,200
Total - C&I Large Retrofit	\$ 44,062,944	\$ 8,913,524	\$ 52,976,468
Small Business	\$ 17,271,596	\$ 3,873,853	\$ 21,145,449
Subtotal: C&I EE Portfolio	\$ 74,453,130	\$ 17,054,330	\$ 91,507,460
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	\$ 956,574	\$ 327,634	\$ 1,284,208
Customer Engagement	\$ 1,668,000	\$ 275,000	\$ 1,943,000
Educate the Students	\$ 412,236	\$ 102,752	\$ 514,988
Educate the Workforce	\$ 790,423	\$ 141,467	\$ 931,890
Subtotal: Education & Engagement	\$ 3,827,233	\$ 846,852	\$ 4,674,085
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program (Includes ECLF and OBR)	\$ 900,072	\$ 150,799	\$ 1,050,871
C&I Financing Support	\$ 2,501,339	\$ 85,000	\$ 2,586,339
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
Subtotal: Programs/Requirements	\$ 3,563,638	\$ 387,049	\$ 3,950,687
OTHER - LOAD MANAGEMENT			
Residential Demand Response	\$ 4,800,000	\$ 2,570,876	\$ 7,370,876
C&I Demand Response	\$ 5,100,000	\$ 381,455	\$ 5,481,455
Subtotal: Load Management	\$ 9,900,000	\$ 2,952,331	\$ 12,852,331
OTHER - ADMINISTRATIVE & PLANNING			
Administration	\$ 902,597	\$ 273,109	\$ 1,175,706
Marketing Plan	\$ 430,380	\$ 121,400	\$ 551,780
Planning	\$ 703,170	\$ 140,393	\$ 843,563
Evaluation Measurement and Verification	\$ 1,920,000	\$ 480,000	\$ 2,400,000
Evaluation Administrator	\$ 210,542	\$ 52,635	\$ 263,177
Information Technology	\$ 1,839,097	\$ 458,164	\$ 2,297,261
Energy Efficiency Board Consultants	\$ 416,000	\$ 104,000	\$ 520,000
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 6,913,829	\$ 1,584,066	\$ 8,497,895
Subtotal: Admin/Planning Expenditures	\$ 13,395,615	\$ 3,237,767	\$ 16,633,382
TOTAL	\$161,241,025	\$ 36,966,170	\$ 198,207,195

Combined Electric Table A1 (2022)

Eversource CT Electric/UI EE BUDGET	2022 Eversource CT Electric Proposed Budget 3/01/21	2022 UI Proposed Budget 3/01/21	2022 Eversource CT Electric/UI Combined Total 3/01/21
RESIDENTIAL			
Residential Retail Products	\$ 4,893,973	\$ 1,664,166	\$ 6,558,139
Residential New Construction	\$ 2,820,669	\$ 557,595	\$ 3,378,264
Home Energy Solutions - Core Services	\$ 19,603,218	\$ 2,972,548	\$ 22,575,765
Home Energy Solutions - HVAC, Water Heaters	\$ 7,413,044	\$ 1,782,255	\$ 9,195,299
HES-Income Eligible	\$ 16,118,111	\$ 3,999,910	\$ 20,118,021
Residential Behavior	\$ -	\$ 359,951	\$ 359,951
Subtotal: Residential EE Portfolio	\$ 50,849,015	\$ 11,336,425	\$ 62,185,440
COMMERCIAL & INDUSTRIAL			
C&I LOST OPPORTUNITY			
Energy Conscious Blueprint	\$ 12,789,674	\$ 3,824,904	\$ 16,614,579
Total - Lost Opportunity	\$ 12,789,674	\$ 3,824,904	\$ 16,614,579
C&I LARGE RETROFIT			
Energy Opportunities	\$ 38,159,951	\$ 6,927,859	\$ 45,087,809
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 3,511,997	\$ 1,047,004	\$ 4,559,000
Total - C&I Large Retrofit	\$ 41,671,947	\$ 7,974,863	\$ 49,646,810
Small Business	\$ 17,107,378	\$ 3,468,255	\$ 20,575,633
Subtotal: C&I EE Portfolio	\$ 71,569,000	\$ 15,268,022	\$ 86,837,021
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	\$ 956,574	\$ 327,634	\$ 1,284,208
Customer Engagement	\$ 1,668,000	\$ 275,000	\$ 1,943,000
Educate the Students	\$ 412,236	\$ 102,752	\$ 514,988
Educate the Workforce	\$ 790,423	\$ 141,467	\$ 931,890
Subtotal: Education & Engagement	\$ 3,827,233	\$ 846,852	\$ 4,674,085
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program (Includes ECLF and OBR)	\$ 900,072	\$ 150,799	\$ 1,050,871
C&I Financing Support	\$ 2,501,339	\$ 85,000	\$ 2,586,339
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
Subtotal: Programs/Requirements	\$ 3,563,638	\$ 387,049	\$ 3,950,687
OTHER - LOAD MANAGEMENT			
Residential Demand Response	\$ 2,668,564	\$ 2,570,876	\$ 5,239,441
C&I Demand Response	\$ 3,132,663	\$ 575,156	\$ 3,707,819
Subtotal: Load Management	\$ 5,801,227	\$ 3,146,032	\$ 8,947,259
OTHER - ADMINISTRATIVE & PLANNING			
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	\$ 1,920,000	\$ 480,000	\$ 2,400,000
Evaluation Administrator	\$ 210,542	\$ 52,635	\$ 263,177
Information Technology	\$ 1,839,097	\$ 458,164	\$ 2,297,261
Energy Efficiency Board Consultants	\$ 416,000	\$ 104,000	\$ 520,000
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 6,363,241	\$ 1,460,924	\$ 7,824,165
Subtotal: Admin/Planning Expenditures	\$ 12,845,027	\$ 3,122,154	\$ 15,967,181
TOTAL	\$ 148,455,140	\$ 34,106,534	\$ 182,561,674

Combined Electric Table A1 (2023)

Eversource CT Electric/UI EE BUDGET	2023 Eversource CT Electric Proposed Budget 3/01/21	2023 UI Proposed Budget 3/01/21	2023 Eversource CT Electric/UI Combined Total 3/01/21
RESIDENTIAL			
Residential Retail Products	\$ 4,489,390	\$ 1,539,409	\$ 6,028,799
Residential New Construction	\$ 2,587,485	\$ 515,794	\$ 3,103,279
Home Energy Solutions - Core Services	\$ 17,982,623	\$ 2,793,705	\$ 20,776,328
Home Energy Solutions - HVAC, Water Heaters	\$ 6,800,210	\$ 1,648,645	\$ 8,448,855
HES-Income Eligible	\$ 14,284,692	\$ 3,689,424	\$ 17,974,116
Residential Behavior	\$ -	\$ 343,592	\$ 343,592
Subtotal: Residential EE Portfolio	\$ 46,144,400	\$ 10,530,568	\$ 56,674,968
COMMERCIAL & INDUSTRIAL			
C&I LOST OPPORTUNITY			
Energy Conscious Blueprint	\$ 11,732,355	\$ 3,580,062	\$ 15,312,417
Total - Lost Opportunity	\$ 11,732,355	\$ 3,580,062	\$ 15,312,417
C&I LARGE RETROFIT			
Energy Opportunities	\$ 35,294,351	\$ 6,408,188	\$ 41,702,539
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 3,221,661	\$ 968,513	\$ 4,190,174
Total - C&I Large Retrofit	\$ 38,516,011	\$ 7,376,701	\$ 45,892,712
Small Business	\$ 15,693,114	\$ 3,208,250	\$ 18,901,364
Subtotal: C&I EE Portfolio	\$ 65,941,481	\$ 14,165,013	\$ 80,106,494
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	\$ 956,574	\$ 327,634	\$ 1,284,208
Customer Engagement	\$ 1,668,000	\$ 275,000	\$ 1,943,000
Educate the Students	\$ 412,236	\$ 102,752	\$ 514,988
Educate the Workforce	\$ 790,423	\$ 141,467	\$ 931,890
Subtotal: Education & Engagement	\$ 3,827,233	\$ 846,852	\$ 4,674,085
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program (Includes ECLF and OBR)	\$ 900,072	\$ 150,799	\$ 1,050,871
C&I Financing Support	\$ 2,501,339	\$ 85,000	\$ 2,586,339
Research, Development & Demonstration	\$ 162,227	\$ 151,250	\$ 313,477
Subtotal: Programs/Requirements	\$ 3,563,638	\$ 387,049	\$ 3,950,687
OTHER - LOAD MANAGEMENT			
Residential Demand Response	\$ 2,668,564	\$ 2,570,876	\$ 5,239,441
C&I Demand Response	\$ 3,132,663	\$ 575,156	\$ 3,707,819
Subtotal: Load Management	\$ 5,801,227	\$ 3,146,032	\$ 8,947,259
OTHER - ADMINISTRATIVE & PLANNING			
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	\$ 1,920,000	\$ 480,000	\$ 2,400,000
Evaluation Administrator	\$ 210,542	\$ 52,635	\$ 263,177
Information Technology	\$ 1,839,097	\$ 458,164	\$ 2,297,261
Energy Efficiency Board Consultants	\$ 416,000	\$ 104,000	\$ 520,000
Audits - Financial and Operational	\$ 60,000	\$ 24,000	\$ 84,000
Performance Management Incentive (PMI)	\$ 5,898,295	\$ 1,375,025	\$ 7,273,320
Subtotal: Admin/Planning Expenditures	\$ 12,380,081	\$ 3,036,255	\$ 15,416,337
TOTAL	\$ 137,658,060	\$ 32,111,770	\$ 169,769,830

Combined Electric Table A2 (2020-2023)

**Table A2
2020 - 2023
Eversource CT Electric/UI EE Revenues**

ES CT Electric/UI EE REVENUES	2020		2020		2021		2021	
	Eversource CT Electric Revenues 12/31/2020	UI Revenues 12/31/2020	Eversource CT Electric/UI Total 12/31/2020	Eversource CT Electric Revenues 03/01/2021	UI Revenues 03/01/2021	Eversource CT Electric/UI Total 03/01/2021	Eversource CT Electric/UI Total 03/01/2021	
Collections (Mill Rate)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
ISO-NE Forward Capacity Market Revenues	\$ 29,472,363	\$ 6,337,894	\$ 35,810,257	\$ 27,207,761	\$ 5,769,761	\$ 32,977,522	\$ 32,977,522	
Class III Renewable Energy Credits	\$ 1,387,545	\$ 426,956	\$ 1,814,500	\$ -	\$ -	\$ -	\$ -	
RGGI*	\$ 11,759,143	\$ 2,939,786	\$ 14,698,929	\$ 10,591,031	\$ 2,647,758	\$ 13,238,789	\$ 13,238,789	
CAM (Net of Gross Receipts Tax)	\$ 115,947,672	\$ 26,943,045	\$ 142,890,717	\$ 96,098,791	\$ 21,109,835	\$ 117,208,626	\$ 117,208,626	
Prior Period Over/(Under) Collections	\$ 7,639,965	\$ 4,285,087	\$ 11,925,052	\$ 5,663,346	\$ 510,211	\$ 6,173,557	\$ 6,173,557	
Prior Period Under/(Over) Budget	\$ 9,007,811	\$ 1,652,971	\$ 10,660,782	\$ 21,680,096	\$ 6,173,825	\$ 27,853,921	\$ 27,853,921	
Interest Due to Company/ Other Revenues	\$ -	\$ 222,245	\$ 222,245	\$ -	\$ 754,781	\$ 754,781	\$ 754,781	
Total: EE Revenues	\$ 175,214,499	\$ 42,807,984	\$ 218,022,482	\$ 161,241,025	\$ 36,966,170	\$ 198,207,195	\$ 198,207,195	

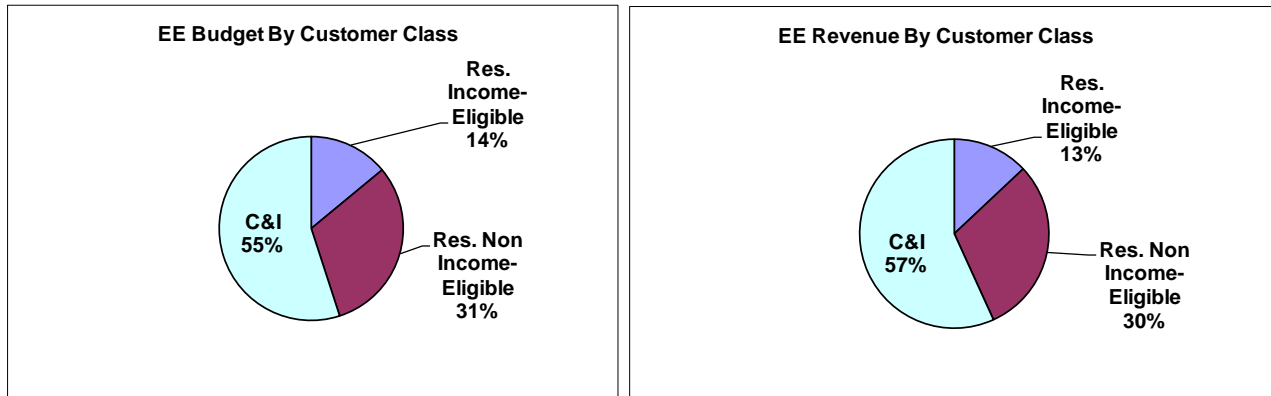
ES CT Electric/UI EE REVENUES	2022		2022		2023		2023	
	Eversource CT Electric Revenues 03/01/2021	UI Revenues 03/01/2021	Eversource CT Electric/UI Total 03/01/2021	Eversource CT Electric Revenues 03/01/2021	UI Revenues 03/01/2021	Eversource CT Electric/UI Total 03/01/2021	Eversource CT Electric/UI Total 03/01/2021	
ISO-NE Forward Capacity Market Revenues	\$ 24,031,370	\$ 4,918,613	\$ 28,949,983	\$ 13,922,152	\$ 3,166,813	\$ 17,088,965	\$ 17,088,965	
RGGI*	\$ 10,802,851	\$ 2,700,713	\$ 13,503,564	\$ 11,018,908	\$ 2,754,727	\$ 13,773,635	\$ 13,773,635	
CAM (Net of Gross Receipts Tax)	\$ 113,620,919	\$ 26,487,209	\$ 140,108,128	\$ 112,717,000	\$ 26,190,229	\$ 138,907,229	\$ 138,907,229	
Total: EE Revenues	\$ 148,455,140	\$ 34,106,534	\$ 182,561,674	\$ 137,658,060	\$ 32,111,770	\$ 169,769,830	\$ 169,769,830	

*RGGI Budget is based on calculation by the Companies and DEEP.

The EE FCM Payment Rates are: FCA-10-\$7.03/kW-month, FCA-11-\$5.30/kW-month, FCA-12-\$4.63/kW-month, FCA-13-\$3.80/kW-month, and FCA-14-\$2.01/kW-month.

-Combined Electric Table Pie Chart (2021)

**Statewide (ES CT Electric and UI)
2021 EE Budget and Parity Analysis
Table A1 Pie Chart**



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$24,772,760	12%	14%	13%	1%
Res. Non Income-Eligible	\$55,754,099	28%	31%	30%	1%
Residential Subtotal	\$80,526,860	41%	45%	43%	2%
C&I	\$101,285,257	51%	55%	57%	-2%
C&I Subtotal	\$101,285,257	51%	55%	57%	-2%
Residential and C&I Subtotal	\$181,812,116	92%	100%	100%	0%
Other Expenditures					
Other Expenditures	\$16,395,079	8%			
Other Expenditures Subtotal	\$16,395,079	8%			
EE TOTAL	\$198,207,195	100%			
Eversource CT Electric	\$161,241,025	81%			
UI	\$36,966,170	19%			

Totals may vary due to rounding.

*Please see attached Budget Allocation Table.

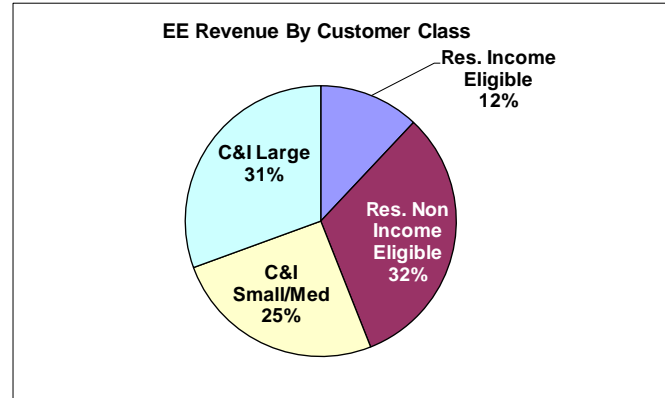
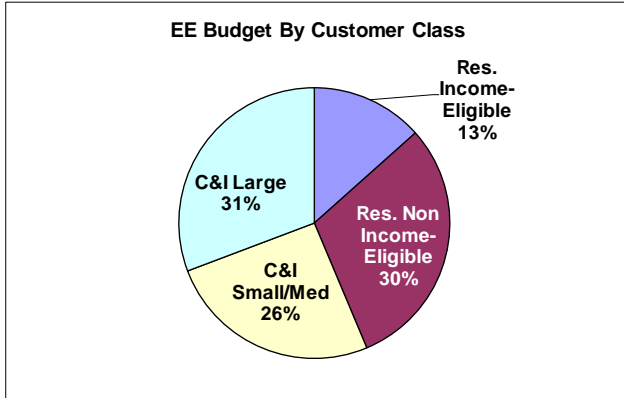
D.3. EVERSOURCE ELECTRIC TABLES**Eversource Electric Table A1 (2019-2023)**

**Table A
EVERSOURCE CT ELECTRIC 2019-2023 EE Budget**

EVERSOURCE CT ELECTRIC EE BUDGET	2019 ES CT Electric Actual Results 12/31/19	2020 ES CT Electric Actual Results 12/31/20	2021 ES CT Electric Proposed Budget 03/01/21	2022 ES CT Electric Proposed Budget 03/01/21	2023 ES CT Electric Proposed Budget 03/01/21
RESIDENTIAL					
Residential Retail Products	\$ 9,516,880	\$ 11,189,455	\$ 6,802,282	\$ 4,893,973	\$ 4,489,390
Residential New Construction	\$ 2,032,944	\$ 2,717,016	\$ 3,018,874	\$ 2,820,669	\$ 2,587,485
Home Energy Solutions - Core Services	\$ 13,824,217	\$ 20,042,758	\$ 20,990,119	\$ 19,603,218	\$ 17,982,623
Home Energy Solutions - HVAC, Water Heaters	\$ 5,285,076	\$ 9,702,175	\$ 7,924,546	\$ 7,413,044	\$ 6,800,210
HES-Income Eligible	\$ 15,993,834	\$ 14,316,611	\$ 17,365,588	\$ 16,118,111	\$ 14,284,692
Residential Behavior	\$ 1,001,199	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$ 47,654,149	\$ 57,968,014	\$ 56,101,409	\$ 50,849,015	\$ 46,144,400
COMMERCIAL & INDUSTRIAL					
C&I LOST OPPORTUNITY					
Energy Conscious Blueprint	\$ 9,466,049	12,436,628	\$ 13,118,589	\$ 12,789,674	\$ 11,732,355
Total - Lost Opportunity	\$ 9,466,049	12,436,628	\$ 13,118,589	\$ 12,789,674	\$ 11,732,355
C&I LARGE RETROFIT					
Energy Opportunities	\$ 38,558,761	45,020,584	\$ 40,299,431	\$ 38,159,951	\$ 35,294,351
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 1,555,926	969,960	\$ 3,763,514	\$ 3,511,997	\$ 3,221,661
Total - C&I Large Retrofit	\$ 40,114,687	45,990,544	\$ 44,062,944	\$ 41,671,947	\$ 38,516,011
Small Business	\$ 8,951,760	5,382,744	\$ 17,271,596	\$ 17,107,378	\$ 15,693,114
Subtotal: C&I EE Portfolio	\$ 58,532,496	63,809,916	\$ 74,453,130	\$ 71,569,000	\$ 65,941,481
OTHER - EDUCATION & ENGAGEMENT					
Educate the Public	\$ 656,954	\$ 385,116	\$ 956,574	\$ 956,574	\$ 956,574
Customer Engagement	\$ 1,376,151	\$ 1,330,909	\$ 1,668,000	\$ 1,668,000	\$ 1,668,000
Educate the Students	\$ 316,990	\$ 250,732	\$ 412,236	\$ 412,236	\$ 412,236
Educate the Workforce	\$ 53,937	\$ 363,120	\$ 790,423	\$ 790,423	\$ 790,423
Subtotal: Education & Engagement	\$ 2,404,033	\$ 2,329,876	\$ 3,827,233	\$ 3,827,233	\$ 3,827,233
OTHER - PROGRAMS/REQUIREMENTS					
Residential Loan Program (Includes ECLF and OBR)	\$ 1,500,000	\$ 2,746,178	\$ 900,072	\$ 900,072	\$ 900,072
C&I Financing Support	\$ 17,569,775	\$ 3,103,714	\$ 2,501,339	\$ 2,501,339	\$ 2,501,339
Research, Development & Demonstration	\$ 89,136	\$ 136,027	\$ 162,227	\$ 162,227	\$ 162,227
Subtotal: Programs/Requirements	\$ 19,158,911	\$ 5,985,919	\$ 3,563,638	\$ 3,563,638	\$ 3,563,638
OTHER - LOAD MANAGEMENT					
Residential Demand Response	\$ 760,192	\$ 1,867,994	\$ 4,800,000	\$ 2,668,564	\$ 2,668,564
C&I Demand Response	\$ 719,003	\$ 2,470,465	\$ 5,100,000	\$ 3,132,663	\$ 3,132,663
Subtotal: Load Management	\$ 1,479,196	\$ 4,338,460	\$ 9,900,000	\$ 5,801,227	\$ 5,801,227
OTHER - ADMINISTRATIVE & PLANNING					
Administration	\$ 859,689	\$ 981,537	\$ 902,597	\$ 902,597	\$ 902,597
Marketing Plan	\$ 128,805	\$ 321,900	\$ 430,380	\$ 430,380	\$ 430,380
Planning	\$ 529,884	\$ 549,296	\$ 703,170	\$ 703,170	\$ 703,170
Evaluation Measurement and Verification	\$ 1,083,724	\$ 1,920,000	\$ 1,920,000	\$ 1,920,000	\$ 1,920,000
Evaluation Administrator	\$ 213,391	\$ 227,298	\$ 210,542	\$ 210,542	\$ 210,542
Information Technology	\$ 1,070,604	\$ 1,019,170	\$ 1,839,097	\$ 1,839,097	\$ 1,839,097
Energy Efficiency Board Consultants	\$ 318,423	\$ 380,641	\$ 416,000	\$ 416,000	\$ 416,000
Audits - Financial and Operational	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000
Performance Management Incentive (PMI)	\$ 8,751,797	\$ 7,770,609	\$ 6,913,829	\$ 6,363,241	\$ 5,898,295
Subtotal: Admin/Planning Expenditures	\$ 13,016,318	\$ 13,230,452	\$ 13,395,615	\$ 12,845,027	\$ 12,380,081
TOTAL	\$ 142,245,101	\$ 147,662,638	\$ 161,241,025	\$ 148,455,140	\$ 137,658,060

Eversource Electric Table A Pie Chart (2021)

Eversource CT Electric
2021 EE Budget and Parity Analysis
Table A Pie Chart



Customer Class	Budget (\$,000) *	% of Total Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Income-Eligible	\$ 19,842,340	12%	13%	12%	1%
Res. Non Income-Eligible	\$ 44,841,132	28%	30%	32%	-2%
Residential Subtotal	\$ 64,683,472	40%	44%	44%	-1%
C&I Small/Med	\$ 37,877,261	23%	26%	25%	1%
C&I Large	\$ 45,552,829	28%	31%	31%	0%
C&I Subtotal	\$83,430,091	52%	56%	56%	1%
Residential and C&I Subtotal	\$148,113,563	92%	100%	100%	0%
Other Expenditures					
Other Expenditures	\$13,127,462	8%			
Other Expenditures Subtotal	\$13,127,462	8%			
EE TOTAL	\$161,241,025	100%			

Note: Municipalities and state facilities are eligible to participate in C&I Program offerings as applicable.

*Please see attached Budget Allocation Table.

Eversource Electric Table A Budget Allocation (2019-2023)

**Eversource Electric 2019 - 2023
Table A Pie Sector Allocation**

Budget Allocation Table	Residential	C&I	Other
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	50%	50%	0%
Customer Engagement	80%	20%	0%
Educate the Students	80%	20%	0%
Educate the Workforce	50%	50%	0%
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
OTHER - LOAD MANAGEMENT			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
OTHER - ADMINISTRATIVE & PLANNING			
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 program's 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 – Eversource CT Electric Costs and Benefits (2020)

2020 Eversource Electric	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities		Electric Savings				
	Utility Cost	Modified Utility Cost	Utility Benefit	Modified Utility Benefit	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost	No. of Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)	
Residential													
Retail Products	\$8,247	\$16,053	\$21,280	\$18,677	\$24,663	2.58	2.26	1.54	2,700,950	Products	27,941	127,057	3,753
New Construction	\$2,779	\$6,494	\$18,317	\$31,048	\$37,065	6.59	9.64	5.71	1,462	Homes	4,460	75,579	1,532
Home Energy Solutions	\$10,752	\$21,594	\$25,892	\$74,570	\$98,555	2.41	3.45	3.77	23,806	Homes	12,408	129,086	2,980
HVAC	\$8,621	\$16,436	\$21,668	\$30,994	\$37,980	2.51	3.60	2.31	37,132	Units	5,971	92,963	1,871
HES - Income Eligible	\$11,141	\$16,596	\$12,266	\$24,132	\$33,057	1.10	1.45	1.97	22,181	Homes	11,228	95,396	1,253
Subtotal: Residential EE Portfolio	\$41,540	\$81,954	\$99,423	\$179,422	\$231,321	2.39	3.08	2.82			62,007	520,080	11,389
Commercial & Industrial													
Energy Conscious Blueprint	\$13,844	\$13,844	\$72,465	\$71,789	\$90,802	5.23	5.19	5.56	380	Projects	29,284	444,523	4,739
Energy Opportunities	\$43,710	\$101,158	\$205,820	\$202,972	\$258,665	4.71	4.64	2.56	1,458	Projects	107,214	1,240,679	13,827
BES	\$3,841	\$6,389	\$12,124	\$12,099	\$20,844	3.16	3.15	3.16	170	Projects	10,304	70,376	1,840
Small Business	\$18,398	\$32,473	\$84,114	\$82,095	\$105,485	4.57	4.46	3.25	1,941	Projects	41,585	521,584	5,380
Subtotal: C&I EE Portfolio	\$79,792	\$79,792	\$374,524	\$368,956	\$475,797	4.69	4.62	3.04			188,386	2,277,163	25,787
Residential DR	\$3,985	\$3,985							9,420	Units			5,574
C&I DR	\$4,578	\$4,578							405	Units			30,000
Subtotal: DR	\$8,563	\$8,563	\$0	\$0	\$0								35,574
Subtotal: Other	\$22,914	\$22,914											
TOTAL	\$152,810	\$169,551	\$473,947	\$548,378	\$707,118	3.10	3.23	2.62			250,394	2,797,243	72,750

Table B – Eversource CT Electric Costs and Benefits (2020) (continued)

2020 Eversource Electric	Electric Cost Rates				Oil/Propane Savings				MMBtu Savings				Emissions Savings	
	Electric Cost Rate \$/kWh Annualize	Electric Cost Ratio \$/L-T-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)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential														
Retail Products	\$0.295	\$0.065	\$2,198	\$483	-204,436	-690,237	-6,858	-34,290	66,355	334,658	\$124	\$25	9,958	49,676
New Construction	\$0.623	\$0.037	\$1,813	\$107	0	0	219,970	4,476,251	35,307	666,690	\$91	\$5	3,927	73,357
Home Energy Solutions	\$0.867	\$0.083	\$3,608	\$347	663,877	14,020,048	78,660	1,671,970	141,593	2,537,582	\$153	\$9	15,503	268,233
HVAC	\$1,444	\$0.093	\$4,608	\$296	140,309	2,023,063	78,673	1,056,204	47,019	694,231	\$183	\$12	5,507	82,111
HES - Income Eligible	\$0.992	\$0.117	\$8,895	\$1,047	208,995	4,185,886	6,937	154,581	67,928	920,148	\$244	\$18	10,014	115,515
Subtotal: Residential EE Portfolio	\$0.670	\$0.080	\$3,647	\$435	808,745	19,538,760	377,382	7,324,716	358,201	5,153,309	\$163	\$11	44,908	588,892
Commercial & Industrial														
Energy Conscious Blueprint	\$0.473	\$0.031	\$2,921	\$192	0	0	0	0	99,916	1,516,714	\$139	\$9	13,979	212,407
Energy Opportunities	\$0.408	\$0.035	\$3,161	\$273	0	0	0	0	365,813	4,233,196	\$119	\$10	50,760	587,381
BES	\$0.373	\$0.055	\$2,087	\$306	0	0	0	0	35,158	240,124	\$109	\$16	5,007	34,247
Small Business	\$0.442	\$0.035	\$3,420	\$273	508	6,091	0	0	141,957	1,780,491	\$130	\$10	19,234	241,181
Subtotal: C&I EE Portfolio	\$0.424	\$0.035	\$3,094	\$256	508	6,091	0	0	642,844	7,770,525	\$124	\$10	88,980	1,075,216
Residential DR			\$715											
C&I DR			\$153											
Subtotal: DR														
Subtotal: Other														
TOTAL	\$0.610	\$0.055	\$2,100	\$188	809,252	19,544,851	377,382	7,324,716	1,001,045	12,923,834	\$169	\$13	133,888	1,664,109

Table B – Eversource CT Electric Costs and Benefits (2021)

2021 Eversource Electric	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
Residential									
Retail Products	\$6,802	\$6,802	\$12,077	\$15,128	\$12,524	\$15,845	2.22	1.84	1.31
New Construction	\$2,591	\$3,019	\$6,481	\$13,471	\$26,278	\$31,908	5.20	8.70	4.92
Home Energy Solutions	\$9,551	\$20,990	\$22,994	\$19,107	\$70,153	\$92,384	2.00	3.34	4.02
HVAC	\$7,925	\$7,925	\$17,365	\$11,675	\$20,467	\$26,084	1.47	2.58	1.50
HES - Income Eligible	\$11,334	\$17,366	\$17,458	\$7,432	\$25,017	\$50,307	0.66	1.44	2.88
Subtotal: Residential EE Portfolio	\$38,203	\$56,101	\$76,375	\$66,813	\$154,439	\$216,528	1.75	2.75	2.84
Commercial & Industrial									
Energy Conscious Blueprint	\$13,119	\$13,119	\$15,923	\$55,977	\$55,485	\$69,278	4.27	4.23	4.35
Energy Opportunities	\$40,299	\$40,299	\$110,312	\$117,857	\$115,371	\$148,782	2.92	2.86	1.35
BES	\$3,764	\$3,764	\$7,030	\$5,521	\$5,521	\$12,648	1.47	1.47	1.80
Small Business	\$17,272	\$17,272	\$36,490	\$56,133	\$54,847	\$71,508	3.25	3.18	1.96
Subtotal: C&I EE Portfolio	\$74,453	\$74,453	\$169,755	\$235,488	\$231,224	\$302,216	3.16	3.11	1.78
Residential DR	\$4,800	\$4,800	\$4,800						
C&I DR	\$5,100	\$5,100	\$5,100						
Subtotal: DR	\$9,900	\$9,900	\$9,900	\$0	\$0	\$0			
Subtotal: Other	\$20,786	\$20,786	\$20,786						
TOTAL	\$143,343	\$161,241	\$276,817	\$302,301	\$385,663	\$518,744	2.11	2.39	1.87

2021 Eversource Electric	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
Residential									
Retail Products	2,019,423	Products	27,426	93,839	3,583	\$0.248	\$0.072	\$1,899	\$555
New Construction	1,409	Homes	3,430	66,780	1,007	\$0.755	\$0.039	\$2,575	\$132
Home Energy Solutions	20,280	Homes	8,181	89,862	2,195	\$1.167	\$0.106	\$4,352	\$396
HVAC	16,767	Units	4,162	65,025	881	\$1.904	\$0.122	\$8,993	\$576
HES - Income Eligible	19,249	Homes	7,315	58,195	1,064	\$1.549	\$0.195	\$10,656	\$1,340
Subtotal: Residential EE Portfolio			50,515	373,701	8,729	\$0.756	\$0.102	\$4,377	\$592
Commercial & Industrial									
Energy Conscious Blueprint	283	Projects	24,068	317,535	4,235	\$0.545	\$0.041	\$3,097	\$235
Energy Opportunities	1,000	Projects	69,000	743,870	8,154	\$0.584	\$0.054	\$4,942	\$458
BES	136	Projects	5,394	33,437	677	\$0.698	\$0.113	\$5,563	\$898
Small Business	1,572	Projects	33,473	370,869	3,581	\$0.516	\$0.047	\$4,824	\$435
Subtotal: C&I EE Portfolio			131,935	1,465,711	16,647	\$0.564	\$0.051	\$4,473	\$403
Residential DR	20,441	Units			12,096			\$397	
C&I DR	676	Units			50,100			\$102	
Subtotal: DR					62,196				
Subtotal: Other									
TOTAL			182,450	1,839,412	87,571	\$0.786	\$0.078	\$1,637	\$162

Table B – Eversource CT Electric Costs and Benefits (2021) (continued)

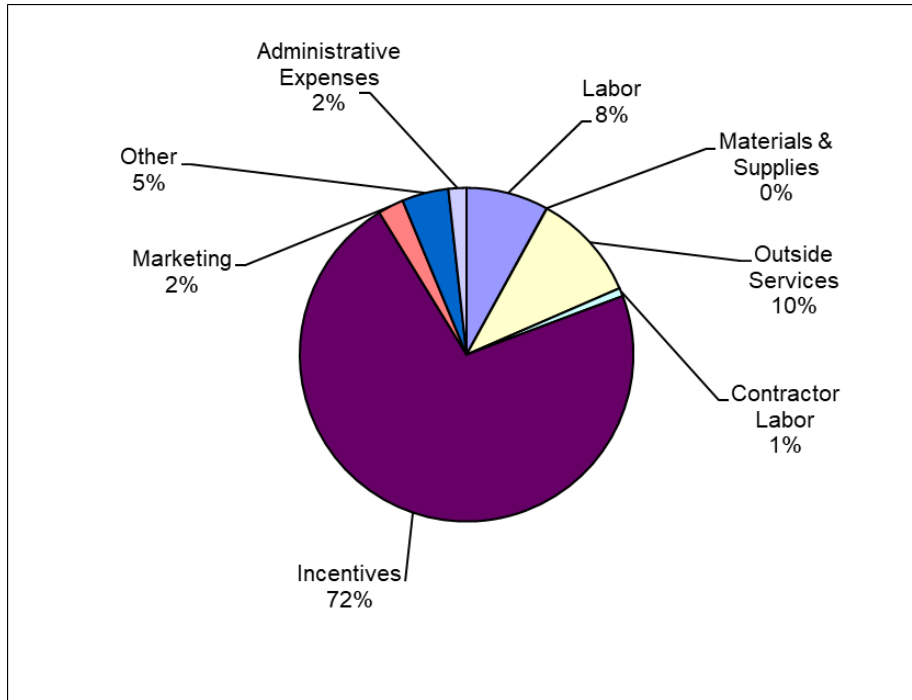
2021 Eversource Electric	Oil/Propane Savings				MMBtu Savings				Emissions Savings	
	Annual Oil Savings (Gal)	Lifetime Oil Savings (Gal)	Annual Propane Savings (Gal)	Lifetime Propane Savings (Gal)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential										
Retail Products	-222,068	-646,218	-5,750	-28,749	62,254	227,930	\$109	\$30	9,378	34,045
New Construction	0	0	215,682	4,330,114	31,402	623,322	\$96	\$5	3,392	67,924
Home Energy Solutions	693,425	14,050,719	81,219	1,669,794	131,503	2,407,806	\$160	\$9	14,039	251,249
HVAC	129,838	1,902,442	63,782	865,219	38,034	564,734	\$208	\$14	4,356	65,228
HES - Income Eligible	243,245	5,037,896	23,024	492,221	60,799	942,222	\$286	\$18	6,659	99,562
Subtotal: Residential EE Portfolio	844,440	20,344,840	377,957	7,328,599	323,991	4,766,014	\$173	\$12	37,824	518,008
Commercial & Industrial										
Energy Conscious Blueprint	0	0	0	0	82,119	1,083,428	\$160	\$12	11,450	151,734
Energy Opportunities	0	0	0	0	235,428	2,538,084	\$171	\$16	32,153	346,298
BES	0	0	0	0	18,406	114,087	\$204	\$33	2,635	16,333
Small Business	477	5,718	0	0	114,275	1,266,198	\$151	\$14	15,548	172,334
Subtotal: C&I EE Portfolio	477	5,718	0	0	450,228	5,001,798	\$165	\$15	61,787	686,699
Residential DR										
C&I DR										
Subtotal: DR										
Subtotal: Other										
TOTAL	844,917	20,350,558	377,957	7,328,599	774,219	9,767,812	\$208	\$17	99,610	1,204,707

Table C – Eversource CT Electric Energy Efficiency Budget Details (2021)**Table C
Eversource CT Electric 2021 EE Budget Details**

Eversource CT Electric EE BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
RESIDENTIAL									
Residential Retail Products	\$141	\$1	\$800	\$27	\$5,149	\$656	\$20	\$9	\$6,802
Residential New Construction	\$187	\$1	\$100	\$2	\$2,625	\$78	\$17	\$9	\$3,019
Home Energy Solutions - Core Services	\$1,508	\$4	\$1,096	\$100	\$17,472	\$750	\$40	\$20	\$20,990
Home Energy Solutions - HVAC, Water Heaters	\$119	\$1	\$500	\$ -	\$6,978	\$291	\$18	\$18	\$7,925
HES-Income Eligible	\$1,642	\$5	\$600	\$89	\$14,219	\$750	\$26	\$34	\$17,366
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$3,597	\$12	\$3,096	\$218	\$46,442	\$2,525	\$121	\$90	\$56,101
COMMERCIAL & INDUSTRIAL									
C&I LOST OPPORTUNITY									
Energy Conscious Blueprint	\$1,007	\$4	\$601	\$152	\$11,217	\$100	\$27	\$10	\$13,119
Total - Lost Opportunity	\$1,007	\$4	\$601	\$152	\$11,217	\$100	\$27	\$10	\$13,119
C&I LARGE RETROFIT									
Energy Opportunities	\$3,972	\$5	\$1,900	\$588	\$33,345	\$250	\$150	\$90	\$40,299
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$176	\$2	\$798	\$ -	\$2,709	\$50	\$6	\$22	\$3,764
Total - C&I Large Retrofit	\$4,148	\$7	\$2,698	\$588	\$36,054	\$300	\$156	\$112	\$44,063
Small Business	\$1,386	\$5	\$400	\$50	\$15,184	\$200	\$27	\$20	\$17,272
Subtotal: C&I EE Portfolio	\$6,541	\$16	\$3,699	\$791	\$62,455	\$600	\$210	\$142	\$74,453
OTHER - EDUCATION & ENGAGEMENT									
Educate the Public	\$73	\$ -	\$730	\$ -	\$ -	\$135	\$ -	\$19	\$957
Customer Engagement	\$301	\$ -	\$1,277	\$85	\$ -	\$ -	\$ -	\$5	\$1,668
Educate the Students	\$52	\$ -	\$318	\$ -	\$ -	\$38	\$1	\$3	\$412
Educate the Workforce	\$52	\$ -	\$739	\$ -	\$ -	\$ -	\$ -	\$ -	\$790
Subtotal: Education & Engagement	\$477	\$ -	\$3,064	\$85	\$ -	\$173	\$1	\$27	\$3,827
OTHER - PROGRAMS/REQUIREMENTS									
Residential Loan Program (includes ECLF and OBR)	\$0	\$ -	\$900	\$ -	\$ -	\$ -	\$ -	\$ -	\$900
C&I Financing Support	\$0	\$ -	\$0	\$ -	\$ -	\$ -	\$ -	\$2,501	\$2,501
Research, Development & Demonstration	\$66	\$2	\$88	\$2	\$ -	\$ -	\$ -	\$5	\$162
Subtotal: Programs/Requirements	\$66	\$2	\$988	\$2	\$ -	\$ -	\$ -	\$2,506	\$3,564
OTHER - LOAD MANAGEMENT									
Residential Demand Response	\$160	\$ -	\$1,605	\$ -	\$2,836	\$200	\$ -	\$ -	\$4,800
C&I Demand Response	\$160	\$ -	\$559	\$ -	\$4,269	\$112	\$ -	\$ -	\$5,100
Subtotal: Load Management	\$319	\$ -	\$2,164	\$ -	\$7,105	\$312	\$ -	\$ -	\$9,900
OTHER - ADMINISTRATIVE & PLANNING									
Administration	\$816	\$4	\$40	\$22	\$ -	\$ -	\$20	\$ -	\$903
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$428	\$1	\$1	\$430
Planning	\$649	\$1	\$ -	\$31	\$ -	\$ -	\$10	\$12	\$703
Evaluation Measurement and Verification	\$ -	\$1	\$1,917	\$0	\$ -	\$ -	\$1	\$1	\$1,920
Evaluation Administrator	\$ -	\$ -	\$211	\$0	\$ -	\$ -	\$ -	\$ -	\$211
Information Technology	\$408	\$ -	\$1,236	\$145	\$ -	\$ -	\$ -	\$50	\$1,839
Energy Efficiency Board Consultants	\$ -	\$ -	\$416	\$ -	\$ -	\$ -	\$ -	\$ -	\$416
Audits - Financial and Operational	\$ -	\$ -	\$60	\$ -	\$ -	\$ -	\$ -	\$ -	\$60
Performance Management Incentive (PMI)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$6,914	\$ -	\$6,914
Subtotal: Admin/Planning Expenditures	\$1,874	\$6	\$3,880	\$198	\$ -	\$428	\$6,946	\$64	\$13,396
TOTAL BUDGET	\$12,873	\$36	\$16,890	\$1,293	\$116,002	\$4,039	\$7,278	\$2,829	\$161,241

Eversource Electric Table C Pie Chart (2021)

**EVERSOURCE CT ELECTRIC
2021 ENERGY EFFICIENCY
EE Budget By Expense Class
Table C Pie Chart**



Expense Classes	Budget	% of Budget
Labor	\$ 12,873	8%
Materials & Supplies	\$ 36	0%
Outside Services	\$ 16,890	10%
Contractor Labor	\$ 1,293	1%
Incentives	\$ 116,002	72%
Marketing	\$ 4,039	2%
Other	\$ 7,278	5%
Administrative Expenses	\$ 2,829	2%
Total	\$ 161,241	100%

Table D - Eversource CT Electric Historical and Projected (\$) (2012-2023)

**Table D
Eversource CT Electric Historical and Projected \$ (2012-2023)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual
RESIDENTIAL						
Residential Retail Products	\$6,859,521	\$6,509,496	\$11,561,025	\$13,693,622	\$14,872,860	\$10,154,122
Residential New Construction	\$1,338,928	\$1,433,966	\$1,573,724	\$2,516,703	\$2,232,996	\$2,887,373
Home Energy Solutions (HVAC, Duct Sealing, Lighting), (Core Services only 2016-2023)	\$14,520,592	\$16,041,653	\$22,290,930	\$19,186,404	\$15,989,863	\$15,512,933
HES - HVAC, Water Heaters (2016-2023)	\$ -	\$ -	\$ -	\$ -	\$3,597,327	\$4,050,111
HES-Income Eligible	\$12,143,928	\$9,593,140	\$17,488,762	\$17,345,096	\$21,471,052	\$16,379,801
Residential Behavior	\$ -	\$ -	\$2,703,694	\$2,392,079	\$2,909,233	\$2,954,049
Subtotal: Residential EE Portfolio	\$34,862,969	\$33,578,255	\$55,618,135	\$55,133,904	\$61,073,331	\$51,938,389
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$8,504,845	\$9,947,173	\$13,875,080	\$12,124,674	\$12,287,599	\$6,718,340
Total - Lost Opportunity	\$8,504,845	\$9,947,173	\$13,875,080	\$12,124,674	\$12,287,599	\$6,718,340
C&I LARGE RETROFIT						
Energy Opportunities	\$18,722,462	\$20,924,237	\$29,217,060	\$33,338,936	\$40,154,158	\$24,882,343
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$1,696,269	\$1,649,654	\$2,422,682	\$2,737,390	\$2,501,793	\$1,484,576
PRIME (2009-2015)	\$540,753	\$478,403	\$476,451	\$603,146	\$ -	\$ -
Total - C&I Large Retrofit	\$20,959,484	\$23,052,294	\$32,116,193	\$36,679,472	\$42,655,951	\$26,366,920
Small Business	\$11,795,666	\$13,329,552	\$16,021,475	\$15,508,750	\$17,615,309	\$16,212,430
Subtotal: C&I EE Portfolio	\$41,259,995	\$46,329,019	\$62,012,749	\$64,312,896	\$72,558,859	\$49,297,689
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$ -	\$ -	\$ -	\$ -	\$1,926,470	\$1,934,418
Customer Engagement	\$ -	\$ -	\$1,817,979	\$1,968,000	\$1,603,922	\$1,507,721
Educate the Students	\$ -	\$ -	\$ -	\$ -	\$392,352	\$706,601
Educate the Workforce	\$ -	\$ -	\$ -	\$ -	\$268,446	\$168,211
SmartLiving Center® - Museum Partnerships	\$507,403	\$274,908	\$1,157,138	\$463,617	\$ -	\$ -
Science Center	\$166,000	\$150,392	\$ -	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$439,078	\$459,334	\$367,115	\$500,780	\$ -	\$ -
Clean Energy Communities / Behavior Pilot	\$313,211	\$729,253	\$1,045,235	\$1,348,330	\$ -	\$ -
Subtotal: Education & Engagement	\$1,425,692	\$1,613,887	\$4,387,467	\$4,280,727	\$4,191,190	\$4,316,951
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (includes ECLF and OBR)	\$5,924,245	\$416,865	\$1,509,746	\$2,006,330	\$1,929,824	\$477,326
C&I Financing Support (2016-2018)	\$ -	\$ -	\$ -	\$ -	\$6,994,639	\$4,060,806
Research, Development & Demonstration	\$176,716	\$198,218	\$267,317	\$177,335	\$208,762	\$84,246
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	\$448,000	\$448,000	\$358,400	\$396,800	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$ -	\$38,734	\$82,586	\$25,857	\$ -	\$ -
C&I Loan Program	\$702,603	\$147,078	\$188,838	\$331,106	\$ -	\$ -
EE Loan Defaults	\$93,127	\$170,077	\$75,809	\$179,197	\$ -	\$ -
C&I Self-Funding	\$ -	\$ -	\$4,019,676	\$4,593,962	\$ -	\$ -
Other Funding Requests	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Other Programs & Requirements	\$ 7,344,691	\$ 1,418,972	\$ 6,502,372	\$ 7,710,587	\$ 9,133,225	\$ 4,622,378
OTHER - LOAD MANAGEMENT						
ISO Load Response Program	\$3,740,450	\$4,128,416	\$3,632,291	\$2,574,236	\$2,414,427	\$2,387,351
Residential Demand Response	\$ -	\$ -	\$ -	\$ -	\$859,080	\$891,827
C&I Demand Response	\$ -	\$ -	\$ -	\$ -	\$45,345	\$785,216
Subtotal: Load Management	\$3,740,450	\$4,128,416	\$3,632,291	\$2,574,236	\$3,318,852	\$4,064,394
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$1,539,439	\$1,985,104	\$957,493	\$1,059,874	\$555,697	\$721,290
Marketing Plan	\$568,324	\$41,274	\$599,189	\$789,065	\$771,953	\$373,937
Planning	\$736,877	\$680,008	\$659,032	\$670,254	\$632,015	\$594,212
Evaluation Measurement & Verification	\$2,123,988	\$2,044,455	\$1,642,153	\$1,764,572	\$1,520,745	\$1,920,000
Evaluation Administrator	\$ -	\$ -	\$269,541	\$180,399	\$199,281	\$177,694
Information Technology	\$2,244,144	\$1,934,732	\$807,911	\$1,037,433	\$1,579,383	\$541,146
Energy Efficiency Board Consultants	\$493,863	\$475,046	\$401,216	\$410,204	\$366,781	\$314,264
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$ -	\$42,483
Performance Management Incentive (PMI)	\$6,758,883	\$6,728,101	\$7,560,041	\$8,197,955	\$9,010,198	\$8,111,330
Subtotal: Admin/Planning Expenditures	\$14,465,518	\$13,888,720	\$12,896,576	\$14,109,756	\$14,636,053	\$12,796,357
TOTAL (includes ISO Load Response)	\$103,099,315	\$100,957,271	\$145,049,590	\$148,122,106	\$164,911,511	\$127,036,159
TOTAL (excludes ISO Load Response)	\$99,358,865	\$96,828,854	\$141,417,299	\$145,547,870	\$162,497,084	\$124,648,808

Table D - Eversource CT Electric Historical and Projected (\$) (2012-2023)(continued)

**Table D
Eversource CT Electric Historical and Projected \$ (2012-2023)**

	2018 Actual	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget
RESIDENTIAL						
Residential Retail Products	\$6,529,899	\$9,516,880	\$11,189,455	\$6,802,282	\$4,893,973	\$4,489,390
Residential New Construction	\$2,204,292	\$2,032,944	\$2,717,016	\$3,018,874	\$2,820,669	\$2,587,485
Home Energy Solutions (HVAC, Duct Sealing, Lighting), (Core Services only 2016-2023)	\$10,336,611	\$13,824,217	\$20,042,758	\$20,990,119	\$19,603,218	\$17,982,623
HES - HVAC, Water Heaters (2016-2023)	\$4,048,082	\$5,285,076	\$9,702,175	\$7,924,546	\$7,413,044	\$6,800,210
HES-Income Eligible	\$11,599,849	\$15,993,834	\$14,316,611	\$17,365,588	\$16,118,111	\$14,284,692
Residential Behavior	\$526,083	\$1,001,199	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$35,244,816	\$47,654,149	\$57,968,014	\$56,101,409	\$50,849,015	\$46,144,400
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$6,632,890	\$9,466,049	\$12,436,628	\$13,118,589	\$12,789,674	\$11,732,355
Total - Lost Opportunity	\$6,632,890	\$9,466,049	\$12,436,628	\$13,118,589	\$12,789,674	\$11,732,355
C&I LARGE RETROFIT						
Energy Opportunities	\$29,689,128	\$38,558,761	\$45,020,584	\$40,299,431	\$38,159,951	\$35,294,351
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$2,977,133	\$1,555,926	\$969,960	\$3,763,514	\$3,511,997	\$3,221,661
PRIME (2009-2015)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total - C&I Large Retrofit	\$32,666,260	\$40,114,687	\$45,990,544	\$44,062,944	\$41,671,947	\$38,516,011
Small Business	\$11,613,734	\$8,951,760	\$5,382,744	\$17,271,596	\$17,107,378	\$15,693,114
Subtotal: C&I EE Portfolio	\$50,912,884	\$58,532,496	\$63,809,916	\$74,453,130	\$71,569,000	\$65,941,481
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$562,325	\$656,954	\$385,116	\$956,574	\$956,574	\$956,574
Customer Engagement	\$1,350,290	\$1,376,151	\$1,330,909	\$1,668,000	\$1,668,000	\$1,668,000
Educate the Students	(\$1,626)	\$316,990	\$250,732	\$412,236	\$412,236	\$412,236
Educate the Workforce	\$84,770	\$53,937	\$363,120	\$790,423	\$790,423	\$790,423
SmartLiving Center® - Museum Partnerships	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Science Center	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Smarts/K-12 Education	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities / Behavior Pilot	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Education & Engagement	\$1,995,759	\$2,404,033	\$2,329,876	\$3,827,233	\$3,827,233	\$3,827,233
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (incl. ECLF and OBR)	\$1,032,277	\$1,500,000	\$2,746,178	\$900,072	\$900,072	\$900,072
C&I Financing Support (2016-2018)	\$2,677,386	\$17,569,775	\$3,103,714	\$2,501,339	\$2,501,339	\$2,501,339
Research, Development & Demonstration	\$281,632	\$89,136	\$136,027	\$162,227	\$162,227	\$162,227
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC PM - Lead By Example	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Self-Funding	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Funding Requests	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Other Programs/ & Requirements	\$ 3,991,295	\$ 19,158,911	\$ 5,985,919	\$ 3,563,638	\$ 3,563,638	\$ 3,563,638
OTHER - LOAD MANAGEMENT						
ISO Load Response Program	\$1,230,295	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Demand Response	\$528,780	\$760,192	\$1,867,994	\$4,800,000	\$2,668,564	\$2,668,564
C&I Demand Response	\$237,674	\$719,003	\$2,470,465	\$5,100,000	\$3,132,663	\$3,132,663
Subtotal: Load Management	\$1,996,750	\$1,479,196	\$4,338,460	\$9,900,000	\$5,801,227	\$5,801,227
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$813,659	\$859,689	\$981,537	\$902,597	\$902,597	\$902,597
Marketing Plan	\$139,080	\$128,805	\$321,900	\$430,380	\$430,380	\$430,380
Planning	\$601,069	\$529,884	\$549,296	\$703,170	\$703,170	\$703,170
Evaluation Measurement & Verification	\$1,829,414	\$1,083,724	\$1,920,000	\$1,920,000	\$1,920,000	\$1,920,000
Evaluation Administrator	\$176,199	\$213,391	\$227,298	\$210,542	\$210,542	\$210,542
Information Technology	\$1,147,062	\$1,070,604	\$1,019,170	\$1,839,097	\$1,839,097	\$1,839,097
Energy Efficiency Board Consultants	\$306,176	\$318,423	\$380,641	\$416,000	\$416,000	\$416,000
Audits - Financial and Operational	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000
PMI	\$6,953,613	\$8,751,797	\$7,770,609	\$6,913,829	\$6,363,241	\$5,898,295
Subtotal: Admin/Planning Expenditures	\$12,026,273	\$13,016,318	\$13,230,452	\$13,395,615	\$12,845,027	\$12,380,081
TOTAL (includes ISO Load Response)	\$106,167,776	\$142,245,101	\$147,662,638	\$161,241,025	\$148,455,140	\$137,658,060
TOTAL (excludes ISO Load Response)	\$104,937,481	\$142,245,101	\$147,662,638	\$161,241,025	\$148,455,140	\$137,658,060

Table D1 - Eversource CT Electric Historical and Projected (kW) (2012-2021)

Table D1
Eversource CT Electric Historical and Projected kW (2012-2021)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
Residential Retail Products	6,355	5,600	5,710	7,947	10,155	9,557	3,433	4,580	4,966	3,583
Residential New Construction	574	562	977	928	903	1,252	903	1,346	1,103	1,007
Home Energy Solutions (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	2,626	2,852	4,061	3,519	2,404	2,940	2,305	3,017	2,025	2,195
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	-	-	-	-	673	805	750	1,020	1,160	881
HES-Income Eligible	749	610	1,002	1,328	1,875	1,598	1,380	1,676	668	1,064
Residential Behavior	-	-	7,473	12,520	4,066	4,066	2,508	1,383	-	-
Subtotal: Residential EE Portfolio	10,304	9,623	19,222	26,242	20,078	20,219	11,279	13,023	9,921	8,729
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	7,705	6,523	7,793	7,103	6,564	3,962	2,779	3,857	3,193	4,235
Total - Lost Opportunity	7,705	6,523	7,793	7,103	6,564	3,962	2,779	3,857	3,193	4,235
C&I LARGE RETROFIT										
Energy Opportunities	10,669	7,843	10,798	14,840	14,567	13,246	18,377	18,389	15,230	8,154
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	977	789	1,269	1,340	835	652	1,498	1,498	451	677
PRIME (2009-2015)	-	-	-	-	-	-	-	-	-	-
Total - C&I Large Retrofit	11,646	8,632	12,067	16,180	15,402	13,898	19,875	19,887	15,682	8,831
Small Business	3,692	2,943	3,169	4,140	5,519	5,247	4,530	4,535	2,156	3,581
Subtotal: C&I EE Portfolio	23,043	18,099	23,029	27,423	27,486	23,106	27,184	28,278	21,030	16,647
OTHER - LOAD MANAGEMENT										
ISO Load Response Program	91,403	95,642	88,627	112,487	36,097	40,746	39,679	-	-	-
Residential Demand Response	-	-	-	-	-	-	-	2,721	12,688	12,096
C&I Demand Response	-	-	-	-	-	-	-	12,931	50,301	50,100
Subtotal Load Management	91,403	95,642	88,627	112,487	36,097	40,746	39,679	15,652	62,989	62,196
TOTAL (includes ISO Load Response)	124,750	123,363	123,405	166,152	83,660	84,071	78,142	56,952	93,940	87,571
TOTAL (excludes ISO Load Response)	33,347	27,721	34,778	53,665	47,563	43,325	38,463	56,952	93,940	87,571

Table D2 - Eversource CT Electric Historical and Projected Annual kWh (000s)(2012-2021)**Table D2
Eversource CT Electric Historical and Projected Annual kWh (000s) (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	71,370	62,949	64,213	64,799	82,138	77,198	24,499	36,244	40,185	27,426
Residential New Construction	1,625	1,896	2,828	3,540	2,363	3,250	2,244	3,524	5,424	3,430
HES (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	15,494	16,559	24,010	21,501	15,322	18,176	13,571	18,113	10,048	8,181
HES - HVAC, Water Heaters (2016-2021)	-	-	-	-	8,123	13,725	7,158	3,613	4,824	4,162
HES-Income Eligible	11,099	8,187	11,137	14,098	15,891	16,666	13,055	10,897	6,254	7,315
Residential Behavior	-	-	28,928	48,466	17,811	17,811	21,968	12,117	-	-
Subtotal: Residential EE Portfolio	99,588	89,592	131,116	152,405	141,650	146,825	82,495	84,507	66,734	50,515
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	33,973	38,741	43,422	37,774	34,278	23,527	17,971	25,651	19,421	24,068
Total - Lost Opportunity	33,973	38,741	43,422	37,774	34,278	23,527	17,971	25,651	19,421	24,068
C&I LARGE RETROFIT										
Energy Opportunities	73,331	56,899	82,319	101,070	118,741	86,995	96,015	126,917	101,242	69,000
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	11,137	4,325	11,141	8,511	8,263	5,491	8,668	5,367	2,700	5,394
PRIME (2009-2015)	2,344	1,948	1,671	1,950	-	-	-	-	-	-
Total - C&I Large Retrofit	86,812	63,172	95,132	111,532	127,004	92,486	104,683	132,284	103,942	74,394
Small Business	28,943	26,801	32,546	32,587	34,603	31,576	27,587	24,820	9,789	33,473
Subtotal: C&I EE Portfolio	149,728	128,713	171,100	181,893	195,885	147,590	150,240	182,754	133,151	131,935
TOTAL (includes ISO Load Response)	249,316	218,305	302,216	334,298	337,535	294,414	232,735	267,261	199,885	182,450
TOTAL (excludes ISO Load Response)	249,316	218,305	302,216	334,298	337,535	294,414	232,735	267,261	199,885	182,450

Table D3 - Eversource CT Electric Historical and Projected Lifetime kWh (000s) (2012-2021)

**Table D3
Eversource CT Electric Historical and Projected Lifetime kWh (000s)(2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	369,780	398,800	565,647	654,001	934,999	611,162	148,050	189,377	177,884	93,839
Residential New Construction	28,472	31,175	43,056	57,175	39,977	50,862	35,839	59,612	95,363	66,780
Home Energy Solutions (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	146,476	171,660	284,193	267,677	188,785	198,163	130,728	172,670	111,314	89,862
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	-	-	-	-	108,423	204,516	118,555	60,026	77,264	65,025
HES-Income Eligible	159,905	113,222	150,565	166,351	193,412	205,101	149,350	117,678	79,855	58,195
Residential Behavior	-	-	57,856	96,933	45,116	45,116	56,743	31,298	-	-
Subtotal: Residential EE Portfolio	704,633	714,857	1,101,316	1,242,137	1,510,712	1,314,918	639,265	630,661	541,680	373,701
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	509,148	596,826	667,358	572,757	520,576	348,323	273,280	389,538	286,880	317,535
Total - Lost Opportunity	509,148	596,826	667,358	572,757	520,576	348,323	273,280	389,538	286,880	317,535
C&I LARGE RETROFIT										
Energy Opportunities	863,093	672,470	953,547	1,142,216	1,354,017	986,891	1,127,699	1,442,039	1,121,625	743,870
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	94,042	36,510	83,564	53,438	51,663	30,085	44,465	31,087	17,139	33,437
PRIME (2009-2015)	11,711	9,739	8,355	9,751	-	-	-	-	-	-
Total - C&I Large Retrofit	968,846	718,720	1,045,466	1,205,405	1,405,680	1,016,976	1,172,163	1,473,127	1,138,763	777,307
Small Business	353,696	325,004	396,812	404,003	433,416	393,553	341,246	311,798	114,577	370,869
Subtotal: C&I EE Portfolio	1,831,690	1,640,549	2,109,636	2,182,165	2,359,672	1,758,852	1,786,689	2,174,463	1,540,220	1,465,711
TOTAL (includes ISO Load Response)	2,536,323	2,355,406	3,210,953	3,424,302	3,870,384	3,073,769	2,425,954	2,805,124	2,081,900	1,839,412
TOTAL (excludes ISO Load Response)	2,536,323	2,355,406	3,210,953	3,424,302	3,870,384	3,073,769	2,425,954	2,805,124	2,081,900	1,839,412

Table D4 - Eversource CT Electric Historical and Projected Units (2012-2021)**Table D4
Eversource CT Electric Historical and Projected Units (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	2,322,287	2,176,584	2,910,409	2,853,482	3,278,554	3,592,169	2,636,995	4,274,928	4,246,668	2,019,423
Residential New Construction	870	770	1,486	439	586	1,892	1,657	1,723	1,244	1,409
HOME ENERGY SOLUTIONS (HES)										
HES Furnace	36	104	54	0	-	-	-	-	-	-
HES Heat Pump Water Heater	175	378	541	1,015	-	-	-	-	-	-
HES Insulation Rebate	1,180	1,840	3,592	2,848	-	-	-	-	-	-
HES Window Rebate	132	2,231	4,166	3,605	-	-	-	-	-	-
HES Appliance Retirement	0	165	278	187	-	-	-	-	-	-
HES HVAC	301	303	169	135	-	-	-	-	-	-
Home Energy Solutions (Duct Sealing, Lighting) (Core Services only 2016-2021)	17,856	14,080	16,906	12,428	11,051	18,267	14,444	17,664	22,226	20,280
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	-	-	-	-	16,058	21,872	17,099	20,347	49,474	16,767
Residential HVAC	2,803	3,357	8,027	14,377	-	-	-	-	-	-
Energy Conservation Loan Program (ECLP)	169	-	-	-	-	-	-	-	-	-
Total: Home Energy Solution (HES)	22,652	22,458	33,733	34,595	27,109	40,139	31,543	38,011	71,700	37,048
HES-Income Eligible	8,424	7,824	14,711	12,203	9,599	21,582	15,039	12,402	16,468	19,249
Residential Behavior	-	-	339,218	296,871	405,959	506,000	119,622	135,902	-	-
Subtotal: Residential EE Portfolio	2,354,233	2,207,636	3,299,557	3,197,590	3,721,807	4,161,782	2,804,856	4,462,966	4,336,080	2,077,128
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	484	436	561	560	528	484	326	417	1,070	283
Total - Lost Opportunity	484	436	561	560	528	484	326	417	1,070	283
C&I LARGE RETROFIT										
Energy Opportunities	859	762	789	796	1,111	1,144	1,147	1,315	946	1,000
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	38	23	55	78	194	144	132	117	61	136
PRIME (2009-2015)	99	76	65	87	-	-	-	-	-	-
Total - C&I Large Retrofit	996	861	909	961	1,305	1,288	1,279	1,432	1,007	1,136
Small Business	1,519	1,277	1,571	1,349	1,318	1,275	920	924	361	1,572
Subtotal: C&I EE Portfolio	2,999	2,574	3,041	2,870	3,151	3,047	2,525	2,773	2,438	2,991
OTHER - LOAD MANAGEMENT										
ISO Load Response Program	263	225	220	215	113	78	78	-	-	-
Residential Demand Response	-	-	-	-	-	-	-	4,379	14,820	20,441
C&I Demand Response	-	-	-	-	-	-	-	105	206	676
Subtotal Load Management	263	225	220	215	113	78	78	4,484	15,026	21,118
TOTAL (includes ISO Load Response)	2,357,495	2,210,435	3,302,818	3,200,675	3,725,071	4,164,907	2,807,459	4,470,223	4,353,544	2,101,237
TOTAL (excludes ISO Load Response)	2,357,232	2,210,210	3,302,598	3,200,460	3,724,958	4,164,829	2,807,381	4,470,223	4,353,544	2,101,237

Table D5 - Eversource CT Electric Historical and Cost per Projected kW**Table D5
Eversource CT Electric Historical and Cost per Projected kW (2012-2021)**

RESIDENTIAL	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	\$1,079	\$1,162	\$2,025	\$1,723	\$1,465	\$1,062	\$1,902	\$2,078	\$2,253	\$1,899
Residential New Construction	\$2,333	\$2,553	\$1,611	\$2,712	\$2,472	\$2,306	\$2,441	\$1,510	\$2,463	\$2,999
Home Energy Solutions (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	\$5,530	\$5,626	\$5,489	\$5,452	\$6,650	\$5,277	\$4,484	\$4,581	\$9,898	\$9,564
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	\$ -	\$ -	\$ -	\$ -	\$5,344	\$5,030	\$5,397	\$5,181	\$8,367	\$8,993
HES-Income Eligible	\$16,214	\$15,739	\$17,458	\$13,061	\$11,451	\$10,251	\$8,406	\$9,543	\$21,427	\$16,327
Residential Behavior	\$ -	\$ -	\$362	\$191	\$715	\$726	\$210	\$724	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$3,383	\$3,489	\$2,894	\$2,101	\$3,042	\$2,569	\$3,125	\$3,659	\$5,843	\$6,427
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$1,104	\$1,525	\$1,780	\$1,707	\$1,872	\$1,696	\$2,387	\$2,454	\$3,895	\$3,097
Total - Lost Opportunity	\$1,104	\$1,525	\$1,780	\$1,707	\$1,872	\$1,696	\$2,387	\$2,454	\$3,895	\$3,097
C&I LARGE RETROFIT										
Energy Opportunities	\$1,755	\$2,668	\$2,706	\$2,247	\$2,756	\$1,878	\$1,616	\$2,097	\$2,956	\$4,942
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$1,736	\$2,090	\$1,909	\$2,043	\$2,997	\$2,278	\$1,987	\$1,039	\$2,150	\$5,563
Total - C&I Large Retrofit	\$1,800	\$2,670	\$2,662	\$2,267	\$2,770	\$1,897	\$1,644	\$2,017	\$2,933	\$4,990
Small Business	\$3,195	\$4,529	\$5,056	\$3,746	\$3,192	\$3,090	\$2,564	\$1,974	\$2,497	\$4,824
Subtotal: C&I EE Portfolio	\$1,791	\$2,560	\$2,693	\$2,345	\$2,640	\$2,134	\$1,873	\$2,070	\$3,034	\$4,473
OTHER - LOAD MANAGEMENT										
ISO Load Response Program	\$41	\$43	\$41	\$23	\$67	\$59	\$31	\$ -	\$ -	\$ -
Residential Demand Response	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$279	\$147	\$397
C&I Demand Response	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$56	\$49	\$102
Subtotal Load Management	\$41	\$43	\$41	\$23	\$92	\$100	\$50	\$ -	\$ -	\$ -
TOTAL (includes ISO Load Response)	\$826	\$818	\$1,175	\$891	\$1,971	\$1,511	\$1,359	\$2,498	\$1,572	\$1,841
TOTAL (excludes ISO Load Response)	\$2,980	\$3,493	\$4,066	\$2,712	\$3,416	\$2,877	\$2,728	\$2,498	\$1,572	\$1,841

Table D6 - Eversource CT Electric Historical and Cost per Projected Annual kWh (2012-2021)**Table D6
Eversource CT Electric Historical and Cost per Projected Annual kWh (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	\$0.096	\$0.103	\$0.180	\$0.211	\$0.181	\$0.132	\$0.267	\$0.263	\$0.278	\$0.248
Residential New Construction	\$0.824	\$0.756	\$0.557	\$0.711	\$0.945	\$0.888	\$0.982	\$0.577	\$0.501	\$0.880
Home Energy Solutions (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	\$0.937	\$0.969	\$0.928	\$0.892	\$1.044	\$0.853	\$0.762	\$0.763	\$1.995	\$2.566
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	\$0.000	\$0.000	\$0.000	\$0.000	\$0.443	\$0.295	\$0.566	\$1.463	\$2.011	\$1.904
HES Income Eligible	\$1.094	\$1.172	\$1.570	\$1.230	\$1.351	\$0.983	\$0.889	\$1.468	\$2.289	\$2.374
Residential Behavior	\$ -	\$ -	\$0.093	\$0.049	\$0.163	\$0.166	\$0.024	\$0.083	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$0.350	\$0.375	\$0.424	\$0.362	\$0.431	\$0.354	\$0.427	\$0.564	\$0.869	\$1.111
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$0.250	\$0.257	\$0.320	\$0.321	\$0.358	\$0.286	\$0.369	\$0.369	\$0.640	\$0.545
Total - Lost Opportunity	\$0.250	\$0.257	\$0.320	\$0.321	\$0.358	\$0.286	\$0.369	\$0.369	\$0.640	\$0.545
C&I LARGE RETROFIT										
Energy Opportunities	\$0.255	\$0.368	\$0.355	\$0.330	\$0.338	\$0.286	\$0.309	\$0.304	\$0.445	\$0.584
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.152	\$0.381	\$0.217	\$0.322	\$0.303	\$0.270	\$0.343	\$0.290	\$0.359	\$0.698
PRIME (2009-2015)	\$0.231	\$0.246	\$0.285	\$0.309	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total - C&I Large Retrofit	\$0.241	\$0.365	\$0.338	\$0.329	\$0.336	\$0.285	\$0.312	\$0.303	\$0.442	\$0.592
Small Business	\$0.408	\$0.497	\$0.492	\$0.476	\$0.509	\$0.513	\$0.421	\$0.361	\$0.550	\$0.516
Subtotal: C&I EE Portfolio	\$0.276	\$0.360	\$0.362	\$0.354	\$0.370	\$0.334	\$0.339	\$0.320	\$0.479	\$0.564
TOTAL (includes ISO Load Response)	\$0.414	\$0.462	\$0.480	\$0.443	\$0.489	\$0.431	\$0.456	\$0.532	\$0.739	\$0.884
TOTAL (excludes ISO Load Response)	\$0.399	\$0.444	\$0.468	\$0.435	\$0.481	\$0.423	\$0.451	\$0.532	\$0.739	\$0.884

Table D7 - Eversource CT Electric Historical and Cost per Projected Lifetime kWh (2012-2021)

**Table D7
Eversource CT Electric Historical and Cost per Projected Lifetime kWh (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	\$0.019	\$0.016	\$0.020	\$0.021	\$0.016	\$0.017	\$0.044	\$0.050	\$0.063	\$0.072
Residential New Construction	\$0.047	\$0.046	\$0.037	\$0.044	\$0.056	\$0.057	\$0.062	\$0.034	\$0.028	\$0.045
Home Energy Solutions (HVAC, Duct Sealing, Lighting)(Core Services only 2016-2021)	\$0.099	\$0.093	\$0.078	\$0.072	\$0.085	\$0.078	\$0.079	\$0.080	\$0.180	\$0.234
Home Energy Solutions - HVAC, Water Heaters (2016-2021)	\$ -	\$ -	\$ -	\$ -	\$0.033	\$0.020	\$0.034	\$0.088	\$0.126	\$0.122
HES-Income Eligible	\$0.076	\$0.085	\$0.116	\$0.104	\$0.111	\$0.080	\$0.078	\$0.136	\$0.179	\$0.298
Residential Behavior	\$ -	\$ -	\$0.047	\$0.025	\$0.064	\$0.065	\$0.009	\$0.032	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$0.049	\$0.047	\$0.051	\$0.044	\$0.040	\$0.039	\$0.055	\$0.076	\$0.107	\$0.150
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$0.017	\$0.017	\$0.021	\$0.021	\$0.024	\$0.019	\$0.024	\$0.024	\$0.043	\$0.041
Total - Lost Opportunity	\$0.017	\$0.017	\$0.021	\$0.021	\$0.024	\$0.019	\$0.024	\$0.024	\$0.043	\$0.041
C&I LARGE RETROFIT										
Energy Opportunities	\$0.022	\$0.031	\$0.031	\$0.029	\$0.030	\$0.025	\$0.026	\$0.027	\$0.040	\$0.054
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.018	\$0.045	\$0.029	\$0.051	\$0.048	\$0.049	\$0.067	\$0.050	\$0.057	\$0.113
PRIME (2009-2015)	\$0.046	\$0.049	\$0.057	\$0.062	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total - C&I Large Retrofit	\$0.022	\$0.032	\$0.031	\$0.030	\$0.030	\$0.026	\$0.028	\$0.027	\$0.040	\$0.057
Small Business	\$0.033	\$0.041	\$0.040	\$0.038	\$0.041	\$0.041	\$0.034	\$0.029	\$0.047	\$0.047
Subtotal: C&I EE Portfolio	\$0.023	\$0.028	\$0.029	\$0.029	\$0.031	\$0.028	\$0.028	\$0.027	\$0.041	\$0.051
TOTAL (includes ISO Load Response)	\$0.041	\$0.043	\$0.045	\$0.043	\$0.043	\$0.041	\$0.044	\$0.051	\$0.071	\$0.088
TOTAL (excludes ISO Load Response)	\$0.039	\$0.041	\$0.044	\$0.043	\$0.042	\$0.041	\$0.043	\$0.051	\$0.071	\$0.088

Eversource Electric PMI (2021)

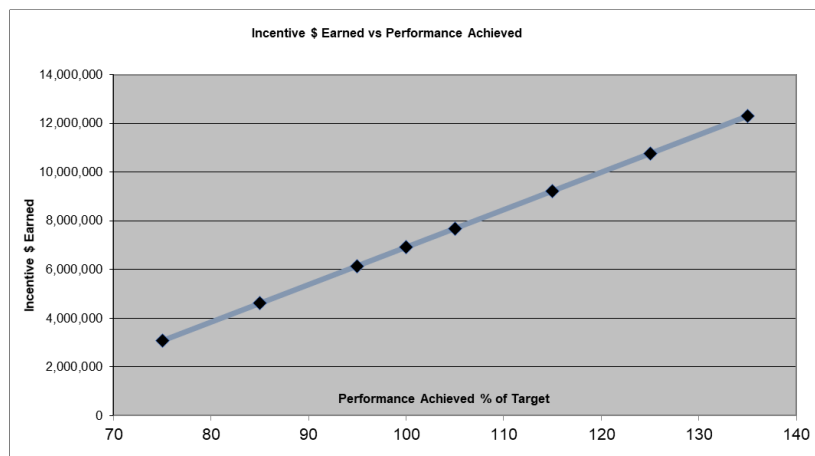
EVERSOURCE CT ELECTRIC

2021 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 2019-2021 Plan. The projected Eversource CT Performance Incentive is **\$6,913,829** and is based on achieving **100%** of all performance targets and earning an incentive of **4.5%** of the total EE program budget of **\$153,640,654** 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>
Minimum		
75	2%	\$3,072,813
85	3%	\$4,609,220
95	4%	\$6,145,626
100	4.5%	\$6,913,829
105	5%	\$7,682,033
115	6%	\$9,218,439
125	7%	\$10,754,846
135	8%	\$12,291,252
Maximum		
Incentive Basis		
Budget	\$153,640,654	
Goals will be prorated based on actual over/under spend of budget.		



Eversource Electric PMI (2021) continued

SECTOR		Performance Indicators				Incentive Metrics						
RESIDENTIAL		Program Name	LT-kWh	kW	% (1)	Incentive Metric	Target Goal	Weight	Incentive			
Residential Programs (Sector Level) Sector Budget	\$56,101					Sum of Electric System Benefit from Residential programs	Electric System Benefit from Residential programs	0.1925	\$1,330,912			
		Retail Products	93,839,302	3,583	32.3%							
		New Construction	66,779,921	1,007	15.0%							
		Home Energy Solutions	89,862,142	2,195	24.5%							
		HVAC	65,024,524	881	14.1%							
		HES-Income Eligible	58,194,946	1,064	14.0%							
		Behavior	-	-	0.0%							
		Total								373,700,836	8,729	
		Savings Rate	\$ 0.09822 / kWh	\$3,449 / kW								
		Savings	\$ 36,703,141	\$ 30,109,674								
		(1) percent of target goal										
Net Electric System Benefit - Res.		Electric System Benefit less Program Costs \$10,711,406					\$10,711,406	0.1925	\$1,330,912			
Home Energy Solutions	\$20,990	Electric Savings LTKWh :		89,862,142	Energy Savings included in appropriate sector-level metric							
		Demand Savings kw :		2,195								
		MMBTU per single-family home (not including lighting) for Core Services that have air sealing completed (i.e., non-barriered homes). Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0% (13.12*102%).							Increase HES savings per Home	Achieve 13.38 MMBTU in HES per single-family home savings across all fuels	0.0200	\$138,277
Number of homes that receive insulation rebates/Number of homes that receive HES Assessments. Based on 2020 actuals plus 2.0% (26.66%+2%).				Increase Homes being Weatherized	28.66% of homes that receive insulation rebates	0.0100	\$69,138					

Eversource Electric PMI (2021) continued

SECTOR		Performance Indicators				Incentive Metrics				
						Incentive Metric	Target Goal	Weight	Incentive	
RESIDENTIAL		Program Name	LT-kWh	kW	% (1)					
Residential New Construction	\$3,019	Electric Savings LTkWh :		66,779,921		Energy Savings included in appropriate sector-level metric				
		Demand Savings kw :		1,007						
		Percentage of single family and single-family attached homes/units in the RNC program that achieve a HERS rating of 50 or less. Based on 2020 Actual plus 4.0% points (42.2%+4%).						Increase % of efficient new homes	46.2%	0.0150
HES- Income Eligible	\$17,366	Electric Savings LTkWh :		58,194,946		Energy Savings included in appropriate sector-level metric				
		Demand Savings kW :		1,064						
		MMBTU per single-family home for Core Services that have air sealing completed (i.e., non-barriered homes). Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0% (14.44*102%).					Increase HES-IE savings per home	Achieve 14.73 MMBTU in HES-IE per single-family home savings across all fuels	0.0250	\$172,846
		Expend the HES-IE Budget. Full Penalty is 5.0% times HES-IE Budgeted Spending. Expending 95% spending avoids the penalty. The penalty is on a sliding scale from 85% to 95%. Above 85% spending, the penalty is scaled with a 10% reduction in the penalty for each one percentage point increase in budget spend above 85%.					Expend 2021 HES-IE Budget	This is a penalty metric - 5.0%		
Equitable Distribution		The Companies will track the participation in HES or HES-IE from January 1, 2021 through December 31, 2021 of all customers automatically enrolled in the Matching Payment Program ("MPP") at the time of November 1, 2020 and achieve 2.1% participation. The Companies will track participation.				Achieve 2.1% Participation		0.0200	\$138,277	
Retail Products	\$6,802	Electric Savings LTkWh :		93,839,302		Energy Savings included in appropriate sector-level metric				
		Demand Savings kW :		3,583						

Eversource Electric PMI (2021) continued

SECTOR		Performance Indicators				Incentive Metrics			
COMMERCIAL & INDUSTRIAL (C&I)		Program Name	LT-kWh	kW	% (1)	Incentive Metric	Target Goal	Weight	Incentive
C&I Programs (Sector Level) Sector Budget	\$74,453	Energy Conscious Blueprint	317,534,702	4,235	23.2%	Total Electric System Benefit from C&I programs	Electric System Benefit from C&I programs	0.2075	\$1,434,620
		Energy Opportunities	743,870,001	8,154	50.0%				
		Business and Energy Sustainability	33,436,998	677	3.0%				
		Small Business	370,869,020	3,581	23.7%				
		Total	1,465,710,721	16,647					
	Savings Rate	\$ 0.09354 / kWh	\$ 5,910 / kW						
	Savings	\$137,104,520	\$98,383,583						
		(1) percent of target goal							
Net Electric System Benefit- C&I		Electric System Benefit less Program Costs			\$161,034,973		\$161,034,973	0.2075	\$1,434,620
Energy Opportunities	\$40,299	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% (32%+5%)				Continue to promote comprehensive projects	37% of all signed projects	0.0250	\$172,846
Energy Conscious Blueprint	\$13,119	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 Code, etc.	50% of signed projects	0.020	\$138,277

Eversource Electric PMI (2021) continued

SECTOR		Performance Indicators			Incentive Metrics			
					Incentive Metric	Target Goal	Weight	Incentive
COMMERCIAL & INDUSTRIAL (C&I)		Program Name	LT-kWh	kW	(1)			
Small Business	\$17,272	Electric Saving LTkWh :		370,869,020		Energy Savings included in appropriate sector-level metric		
		Demand Saving kW :		3,581				
		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). This is based on 2020 Actual results plus 5% (36%+5%)				Continue to promote comprehensive projects	41% of signed projects	0.0250
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 2016-2020 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	\$25,927
	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	\$25,927
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average)					0.00375	\$25,927
	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	\$25,927
Strategic Energy Management	\$3,764	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	\$103,707
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	\$69,138
Total of Incentives							1.00000	\$6,913,829

D.4. UNITED ILLUMINATING ELECTRIC TABLES**United Illuminating Electric Table A1 (2019-2023)**

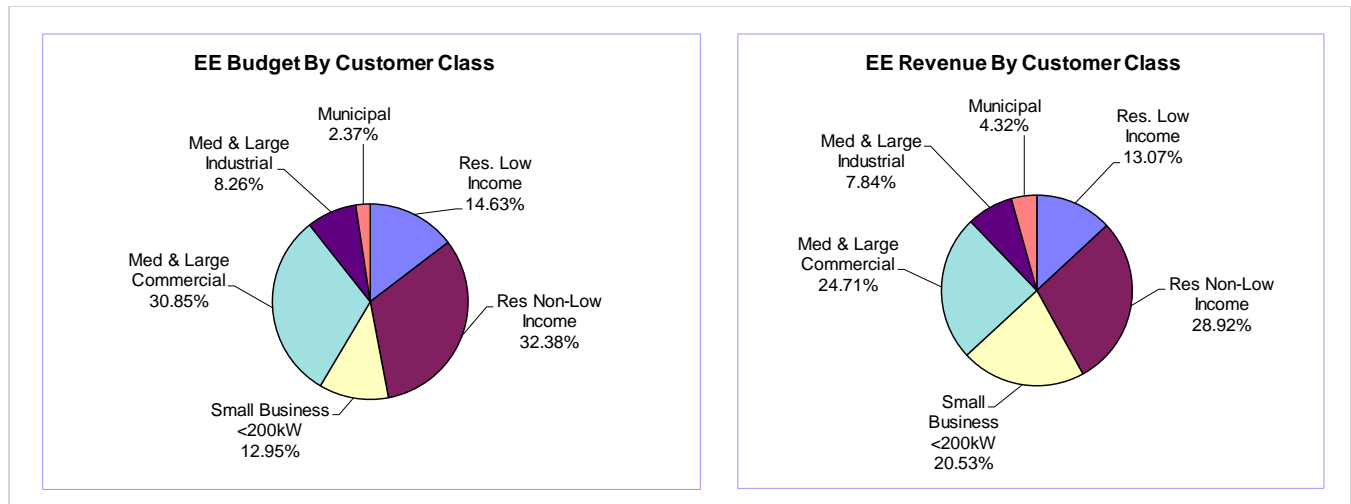
Table A
UI Proposed EE Budgets (2019-2023)

UI EE BUDGET	12/31/2019 2019 UI ACTUAL RESULTS	12/31/2020 2020 UI ACTUAL RESULTS	3/1/2021 2021 UI BUDGET UPDATE	3/1/2021 2022 UI BUDGET UPDATE	3/1/2021 2023 UI BUDGET UPDATE
RESIDENTIAL					
Residential Retail Products	\$ 2,059,682	\$ 2,795,488	\$ 1,834,499	\$ 1,664,166	\$ 1,539,409
Residential New Construction	\$ 794,687	\$ 423,435	\$ 620,438	\$ 557,595	\$ 515,794
Home Energy Solutions (HES)	\$ 2,815,125	\$ 3,521,888	\$ 3,600,244	\$ 2,972,548	\$ 2,793,705
HVAC/Water Heaters	\$ 1,651,080	\$ 1,322,749	\$ 1,939,467	\$ 1,782,255	\$ 1,648,645
HES-Income Eligible	\$ 4,180,741	\$ 2,076,231	\$ 4,111,608	\$ 3,999,910	\$ 3,689,424
Residential Behavior	\$ 31,917	\$ 193,396	\$ 381,584	\$ 359,951	\$ 343,592
Subtotal: Residential EE Portfolio	\$ 11,533,233	\$ 10,333,187	\$ 12,487,841	\$ 11,336,425	\$ 10,530,568
COMMERCIAL & INDUSTRIAL					
C&I LOST OPPORTUNITY					
Energy Conscious Blueprint	\$ 4,622,491	\$ 2,903,674	\$ 4,266,953	\$ 3,824,904	\$ 3,580,062
Total - Lost Opportunity	\$ 4,622,491	\$ 2,903,674	\$ 4,266,953	\$ 3,824,904	\$ 3,580,062
C&I LARGE RETROFIT					
Energy Opportunities	\$ 6,213,003	\$ 12,357,623	\$ 7,736,838	\$ 6,927,859	\$ 6,408,188
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$ 720,410	\$ 825,694	\$ 1,176,686	\$ 1,047,004	\$ 968,513
Total - C&I Large Retrofit	\$ 6,933,413	\$ 13,183,316	\$ 8,913,524	\$ 7,974,863	\$ 7,376,701
Small Business	\$ 2,298,231	\$ 3,913,845	\$ 3,873,853	\$ 3,468,255	\$ 3,208,250
Subtotal: C&I EE Portfolio	\$ 13,854,135	\$ 20,000,835	\$ 17,054,330	\$ 15,268,022	\$ 14,165,013
OTHER - EDUCATION					
Educate the Public	\$ 290,489	\$ 174,462	\$ 327,634	\$ 327,634	\$ 327,634
Customer Engagement	\$ -	\$ -	\$ 275,000	\$ 275,000	\$ 275,000
Educate the Students	\$ 109,155	\$ 112,232	\$ 102,752	\$ 102,752	\$ 102,752
Educate the Workforce	\$ 58,431	\$ 77,660	\$ 141,467	\$ 141,467	\$ 141,467
Subtotal: Education	\$ 458,075	\$ 364,354	\$ 846,852	\$ 846,852	\$ 846,852
OTHER - PROGRAMS/REQUIREMENTS					
Financing Support - Residential	\$ 72,133	\$ 156,932	\$ 150,799	\$ 150,799	\$ 150,799
Financing Support - C&I	\$ -	\$ -	\$ 85,000	\$ 85,000	\$ 85,000
Research, Development & Demonstration	\$ 49,113	\$ 25,859	\$ 151,250	\$ 151,250	\$ 151,250
Subtotal Programs/Requirements	\$ 121,246	\$ 182,790	\$ 387,049	\$ 387,049	\$ 387,049
OTHER - LOAD MANAGEMENT					
Demand Response Pilot - Residential	\$ 853,276	\$ 417,042	\$ 2,570,876	\$ 2,570,876	\$ 2,570,876
Demand Response Pilot - C&I	\$ 79,988	\$ 103,718	\$ 381,455	\$ 575,156	\$ 575,156
Subtotal: Load Management	\$ 933,264	\$ 520,761	\$ 2,952,331	\$ 3,146,032	\$ 3,146,032
OTHER - ADMINISTRATIVE & PLANNING					
Administration	\$ 254,748	\$ 248,807	\$ 273,109	\$ 280,639	\$ 280,639
Marketing Plan	\$ 43,467	\$ 16,987	\$ 121,400	\$ 121,400	\$ 121,400
Planning	\$ 125,387	\$ 226,791	\$ 140,393	\$ 140,393	\$ 140,393
Evaluation Measurement and Verification	\$ 255,806	\$ 478,388	\$ 480,000	\$ 480,000	\$ 480,000
Evaluation Administrator	\$ 44,800	\$ 52,475	\$ 52,635	\$ 52,635	\$ 52,635
Information Technology	\$ 230,809	\$ 156,309	\$ 458,164	\$ 458,164	\$ 458,164
Energy Efficiency Board Consultants	\$ 74,087	\$ 104,000	\$ 104,000	\$ 104,000	\$ 104,000
Audits - Financial and Operational	\$ 24,000	\$ 3,904	\$ 24,000	\$ 24,000	\$ 24,000
Performance Management Incentive	\$ 1,903,548	\$ 993,299	\$ 1,584,066	\$ 1,460,924	\$ 1,375,025
Subtotal: Admin/Planning Expenditures	\$ 2,956,652	\$ 2,280,959	\$ 3,237,767	\$ 3,122,154	\$ 3,036,255
TOTAL EE BUDGET	\$ 29,856,605	\$ 33,682,887	\$ 6,966,170	\$ 34,106,534	\$ 32,111,770

Totals may vary due to rounding.

United Illuminating Electric Table A Pie Chart (2021)

**THE UNITED ILLUMINATING COMPANY
2021 ENERGY EFFICIENCY BUDGET PIES
TABLE A**



Customer Class	Budget*	% of Total C&LM Budget	% of Residential and C&I Budget	% of Residential and C&I Revenue	Difference
Res. Low Income	\$ 4,930,421	13.34%	14.63%	13.07%	1.56%
Res Non-Low Income	\$ 10,912,967	29.52%	32.38%	28.92%	3.46%
Subtotal: Residential	\$ 15,843,387	42.86%	47.02%	41.99%	5.03%
Small Business <200kW	\$ 3,873,853	10.48%	11.50%	21.14%	-9.64%
Med & Large Commercial	\$ 10,396,810	28.13%	30.85%	24.71%	6.14%
Med & Large Industrial	\$ 2,784,503	7.53%	8.26%	7.84%	0.42%
Municipal	\$ 800,000	2.16%	2.37%	4.32%	-1.95%
Subtotal: C&I	\$ 17,855,166	48.30%	52.98%	58.01%	-5.03%
Subtotal: Residential and C&I	\$ 33,698,554	91.16%	100.00%	100.00%	0.00%
Other Expenditures	\$ 3,267,617	8.84%			
Subtotal: Other Expenditures	\$ 3,267,617	8.84%			
GRAND TOTAL	\$ 36,966,170	100%			

*Please see attached Budget Allocation Table.
Totals may vary due to rounding.

United Illuminating Electric Table A Budget Allocation (2019-2023)

United Illuminating Electric 2019 - 2023
Table A Pie Sector Allocation

Budget Allocation Table	Residential	C&I	Other
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	50%	50%	0%
Customer Engagement	80%	20%	0%
Educate the Students	80%	20%	0%
Educate the Workforce	50%	50%	0%
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
OTHER - LOAD MANAGEMENT			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
OTHER - ADMINISTRATIVE & PLANNING			
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 program's 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 – United Illuminating Electric Costs and Benefits (2020)

2020 UI	Costs (\$000)		Benefits (\$000)			Benefit Cost Ratios			Quantities			Electric Savings	
	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	Annual Savings (MWh)	Lifetime Savings (MWh)
Residential													
Retail Products	\$2,351	\$2,351	\$4,533	\$5,170	\$4,502	\$6,004	2.20	1.91	1.32	754,921	Bulbs, Fixtures	7,479	33,904
New Construction	\$737	\$737	\$2,230	\$1,611	\$2,006	\$2,309	2.19	2.72	1.04	538	No. of Units	424	6,902
Home Energy Solutions	\$2,166	\$4,038	\$5,514	\$6,447	\$12,217	\$15,835	2.98	3.03	2.87	6,110	No. of Ptcp.s.	2,927	24,504
HVAC	\$2,223	\$2,223	\$8,251	\$5,614	\$6,637	\$7,757	2.53	2.99	0.94	11,671	No. of Ptcp.s.	1,469	23,176
HES - Income Eligible	\$4,524	\$5,266	\$5,371	\$5,086	\$8,345	\$11,541	1.12	1.58	2.15	8,006	Customers	5,319	45,247
Behavior	\$225	\$225	\$225	\$411	\$411	\$557	1.82	1.82	2.48	35,000	Customers	1,085	2,723
Subtotal: Residential EE Portfolio	\$12,225	\$14,839	\$26,124	\$24,339	\$34,118	\$44,003	1.99	2.30	1.68			18,703	136,456
Commercial & Industrial													
Energy Conscious Blueprint	\$5,256	\$5,256	\$9,739	\$23,030	\$23,500	\$29,227	4.38	4.47	3.00	597	Projects	9,979	170,823
Energy Opportunities	\$9,498	\$9,498	\$18,128	\$35,663	\$36,391	\$46,429	3.75	3.83	2.56	1,223	Projects	22,530	264,592
BES	\$1,455	\$1,455	\$3,689	\$3,560	\$3,633	\$4,716	2.45	2.50	1.28	92	Projects	4,243	23,760
Small Business	\$4,800	\$4,800	\$10,392	\$17,128	\$17,478	\$22,252	3.57	3.64	2.14	291	Projects	10,024	125,418
Subtotal: C&I EE Portfolio	\$21,009	\$21,009	\$41,948	\$79,382	\$81,002	\$102,624	3.78	3.86	2.45			46,776	584,592
Demand Response - RES	\$1,377	\$1,377	\$1,377							4,465	No. of Ptcp.s.	0	0
Demand Response - C&I	\$283	\$283	\$283							9	New Ptcp.s.	0	0
Subtotal Demand Response	\$1,660	\$1,660	\$1,660										
Subtotal Other	\$4,790	\$4,790	\$4,790										
TOTAL	\$39,684	\$42,298	\$72,862	\$103,721	\$115,119	\$146,627	2.61	2.72	2.01			65,480	721,048

Table B – United Illuminating Electric Costs and Benefits (2020) (continued)

2020	Electric Cost Rates				Oil/Propane Savings			MMBtu Savings			Emissions Savings				
	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)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential															
Retail Products	966	\$0.314	\$0.069	\$2,433	\$537	-56,688	-187,194	-1,891	-7,565	17,491	89,061	\$134	\$26	2,640	13,323
New Construction	170	\$1.736	\$0.107	\$4,322	\$266	0	0	7,581	192,747	2,141	41,159	\$344	\$18	246	4,856
Home Energy Solutions	955	\$0.740	\$0.088	\$2,268	\$271	116,651	2,327,114	1,936	39,808	26,346	410,017	\$153	\$10	2,904	43,907
HVAC	636	\$1.513	\$0.096	\$3,493	\$221	12,401	161,210	18,833	244,831	8,454	123,818	\$263	\$18	1,044	15,561
HES - Income Eligible	520	\$0.851	\$0.100	\$8,699	\$1,023	64,877	1,511,732	0	0	27,151	364,091	\$194	\$14	2,980	40,327
Behavior	0	\$0.207	\$0.083			0	0	0	0	3,703	9,295	\$61	\$24	530	1,330
Subtotal: Residential EE Portfolio	3,248	\$0.654	\$0.090	\$3,763	\$516	137,242	3,812,862	26,459	469,821	85,285	1,037,440	\$174	\$14	10,343	119,304
Commercial & Industrial															
Energy Conscious Blueprint	1,834	\$0.527	\$0.031	\$2,866	\$167	0	0	0	0	34,060	583,018	\$154	\$9	4,875	83,442
Energy Opportunities	2,607	\$0.422	\$0.036	\$3,643	\$310	0	0	0	0	76,896	903,051	\$124	\$11	11,006	129,246
BES	457	\$0.343	\$0.061	\$3,181	\$568	0	0	0	0	14,481	81,092	\$100	\$18	2,072	11,606
Small Business	1,298	\$0.479	\$0.038	\$3,699	\$296	0	0	0	0	34,210	428,051	\$140	\$11	4,896	61,263
Subtotal: C&I EE Portfolio	6,196	\$0.449	\$0.036	\$3,390	\$271	0	0	0	0	159,647	1,995,212	\$132	\$11	22,849	285,557
Demand Response - RES	3,429			\$402	\$402	0	0	0	0	0	0			0	0
Demand Response - C&I	794			\$357	\$357	0	0	0	0	0	0			0	0
Subtotal Demand Response	4,223														
Subtotal Other															
TOTAL	13,668	\$0.606	\$0.055	\$2,903	\$264	137,242	3,812,862	26,459	469,821	244,933	3,032,652	\$173	\$14	33,192	404,862

Table B – United Illuminating Electric Costs and Benefits (2021)

2021	Costs (\$000)			Benefits (\$000)		
UI	Utility Cost	Modified Utility Cost	Total Resource Cost	Utility Benefit	Modified Utility Benefit	Total Resource Benefit
Residential						
Retail Products	\$1,834	\$1,834	\$3,089	\$3,473	\$3,258	\$4,150
New Construction	\$620	\$620	\$2,587	\$2,953	\$2,950	\$3,300
Home Energy Solutions	\$1,516	\$3,600	\$4,133	\$5,726	\$14,263	\$17,929
HVAC	\$1,939	\$1,939	\$4,222	\$2,766	\$4,400	\$5,362
HES - Income Eligible	\$1,745	\$4,112	\$6,344	\$1,908	\$7,406	\$14,190
Behavior	\$381	\$381	\$381	\$222	\$222	\$299
Subtotal: Residential EE Portfolio	\$8,036	\$12,487	\$20,757	\$17,048	\$32,499	\$45,229
Commercial & Industrial						
Energy Conscious Blueprint	\$4,267.00	\$4,267	\$9,507.00	\$18,965	\$18,965	\$24,434
Energy Opportunities	\$7,737	\$7,737	\$18,016.00	\$25,029	\$25,029	\$32,133
BES	\$1,177	\$1,177	\$2,230.00	\$2,936	\$2,936	\$3,633
Small Business	\$3,874	\$3,874	\$7,814	\$9,969	\$9,969	\$13,101
Subtotal: C&I EE Portfolio	\$17,054	\$17,054	\$37,567	\$56,899	\$56,899	\$73,300
Demand Response - RES	\$2,571	\$2,571	\$2,571			
Demand Response - C&I	\$381	\$381	\$381			
Subtotal: Demand Response	\$2,952	\$2,952	\$2,952			
Subtotal: Other	\$4,472	\$4,472	\$4,472			
TOTAL	\$32,515	\$36,966	\$65,748	\$73,947	\$89,398	\$118,529

2021	Benefit Cost Ratios			Quantities		Electric Savings		
UI	Utility Cost Test	Modified Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure	Annual Savings (MWh)	Lifetime Savings (MWh)	Peak kW Impact (Y/E)
Residential								
Retail Products	1.89	1.78	1.34	423,214	Bulbs, Fixtures	5,943	21,051	869
New Construction	4.76	4.76	1.28	570	No. of Units	389	8,901	246
Home Energy Solutions	3.78	3.96	4.34	3,890	No. of Ptcps.	1,524	17,255	675
HVAC	1.43	2.27	1.27	5,791	No. of Ptcps.	671	11,205	245
HES - Income Eligible	1.09	1.80	2.24	2,846	Customers	1,996	17,760	133
Behavior	0.58	0.58	0.79	36,900	Customers	812	1,624	0
Subtotal: Residential EE Portfolio	2.12	2.60	2.18			11,334	77,797	2,169
Commercial & Industrial								
Energy Conscious Blueprint	4.44	4.44	2.57	230	Projects	7,693	132,312	999
Energy Opportunities	3.23	3.23	1.78	1,340	Projects	13,701	162,166	1,601
BES	2.50	2.50	1.63	33	Projects	2,510	15,062	505
Small Business	2.57	2.57	1.68	270	Projects	6,259	70,374	552
Subtotal: C&I EE Portfolio	3.34	3.34	1.95			30,163	379,914	3,657
Demand Response - RES				5,833	No. of Ptcps.	0	0	4,480
Demand Response - C&I				17	No. of Ptcps.	0	0	1,498
Subtotal: Demand Response								5,978
Subtotal: Other								
TOTAL	2.27	2.42	1.80			41,497	457,711	11,803

Table B – United Illuminating Electric Costs and Benefits (2021) (continued)

2021	Electric Cost Rates				Oil/Propane Savings			
UI	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)
Residential								
Retail Products	\$0.309	\$0.087	\$2,110	\$596	-40,819	-70,164	-1,705	-5,114
New Construction	\$1.595	\$0.070	\$2,518	\$110	0	0	0	0
Home Energy Solutions	\$0.995	\$0.088	\$2,245	\$198	115,341	2,457,297	7,244	159,050
HVAC	\$2.892	\$0.173	\$7,932	\$475	15,164	224,699	23,655	349,370
HES - Income Eligible	\$0.874	\$0.098	\$13,086	\$1,470	71,074	1,599,683	4,866	100,198
Behavior	\$0.469	\$0.235			0	0	0	0
Subtotal: Residential EE Portfolio	\$0.709	\$0.103	\$3,706	\$540	160,759	4,211,514	34,061	603,504
Commercial & Industrial								
Energy Conscious Blueprint	\$0.555	\$0.032	\$4,272	\$248	0	0	0	0
Energy Opportunities	\$0.565	\$0.048	\$4,834	\$408	0	0	0	0
BES	\$0.469	\$0.078	\$2,328	\$388	0	0	0	0
Small Business	\$0.619	\$0.055	\$7,017	\$624	0	0	0	0
Subtotal: C&I EE Portfolio	\$0.565	\$0.045	\$4,663	\$370	0	0	0	0
Demand Response - RES					0	0	0	0
Demand Response - C&I					0	0	0	0
Subtotal: Demand Response								
Subtotal: Other								
TOTAL	\$0.784	\$0.071	\$2,755	\$250	160,759	4,211,514	34,061	603,504

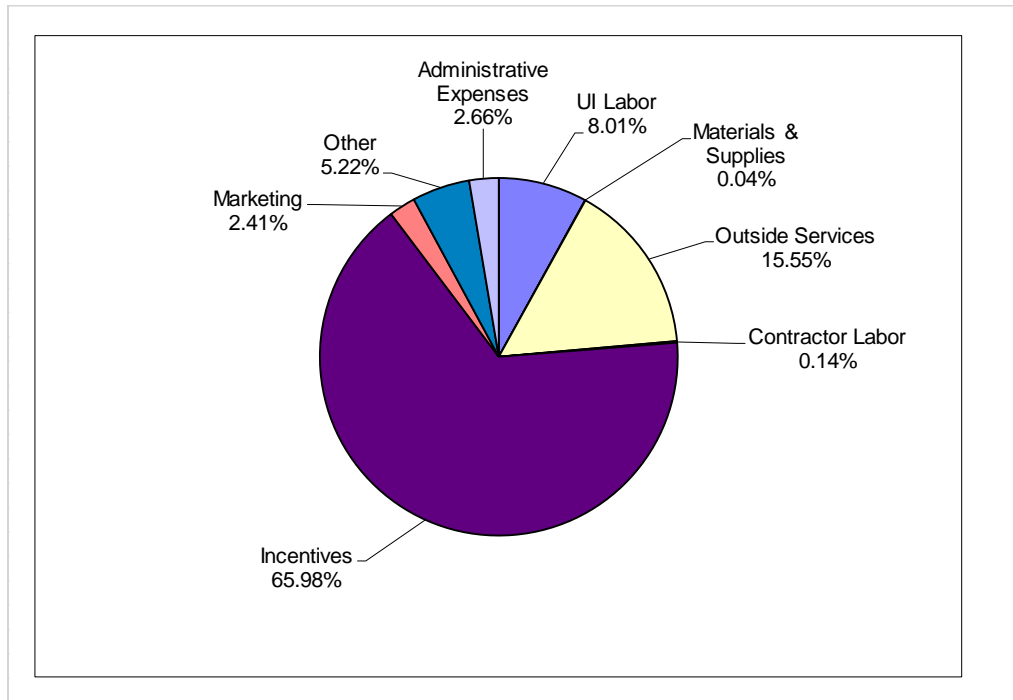
2021	MMBtu Savings				Emissions Savings	
UI	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential						
Retail Products	14,467	61,651	\$127	\$30	2,282	9,308
New Construction	1,327	30,378	\$467	\$20	186	4,336
Home Energy Solutions	21,859	414,221	\$165	\$9	2,349	43,635
HVAC	6,552	101,315	\$296	\$19	732	11,450
HES - Income Eligible	17,113	291,628	\$240	\$14	1,923	31,297
Behavior	2,771	5,543	\$138	\$69	0	0
Subtotal: Residential EE Portfolio	64,090	904,734	\$195	\$14	7,471	100,026
Commercial & Industrial						
Energy Conscious Blueprint	26,257	451,580	\$163	\$9	3,758	64,631
Energy Opportunities	46,762	553,473	\$165	\$14	6,693	79,214
BES	8,568	51,406	\$137	\$23	1,226	7,357
Small Business	21,361	240,187	\$181	\$16	3,057	34,376
Subtotal: C&I EE Portfolio	102,948	1,296,646	\$166	\$13	14,734	185,578
Demand Response - RES	0	0			0	0
Demand Response - C&I	0	0			0	0
Subtotal: Demand Response						
Subtotal: Other						
TOTAL	167,037	2,201,380	\$221	\$17	22,205	285,604

Table C – United Illuminating Electric Energy Efficiency Budget Details (2021)

Table C									
PROGRAM EE BUDGET (\$000)	UI Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
RESIDENTIAL									
Residential Retail Products	\$139,698	\$ -	\$300,000	\$ -	\$1,360,984	\$25,817	\$5,000	\$3,000	\$1,834,499
Residential New Construction	\$41,028	\$ -	\$6,457	\$ -	\$550,446	\$15,349	\$4,000	\$3,158	\$620,438
Home Energy Solutions - Core Services	\$208,863	\$ -	\$200,000	\$ -	\$3,021,325	\$149,056	\$5,000	\$16,000	\$3,600,244
Home Energy Solutions - HVAC, Water Heaters	\$25,914	\$ -	\$105,883	\$ -	\$1,781,295	\$22,608	\$767	\$3,000	\$1,939,467
HES-Income Eligible	\$208,863	\$ -	\$259,881	\$ -	\$3,430,365	\$200,000	\$4,000	\$8,500	\$4,111,608
Residential Behavior	\$17,354	\$ -	\$358,158	\$ -	\$0	\$3,895	\$1,101	\$1,077	\$381,584
Subtotal: Residential EE Portfolio	\$641,718	\$ -	\$1,230,379	\$ -	\$10,144,416	\$416,725	\$19,868	\$34,735	\$12,487,841
COMMERCIAL & INDUSTRIAL									
C&I LOST OPPORTUNITY									
Energy Conscious Blueprint	\$461,810	\$500	\$163,319	\$ -	\$3,493,402	\$77,922	\$10,000	\$60,000	\$4,266,953
Total - Lost Opportunity	\$461,810	\$500	\$163,319	\$ -	\$3,493,402	\$77,922	\$10,000	\$60,000	\$4,266,953
C&I LARGE RETROFIT									
Energy Opportunities	\$461,810	\$3,500	\$102,662	\$ -	\$6,852,886	\$114,223	\$5,000	\$196,757	\$7,736,838
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$90,694	\$200	\$339,338	\$ -	\$701,984	\$27,970	\$4,000	\$12,500	\$1,176,686
Total - C&I Large Retrofit	\$552,504	\$3,700	\$442,000	\$ -	\$7,554,870	\$142,193	\$9,000	\$209,257	\$8,913,524
Small Business	\$434,446	\$1,000	\$223,992	\$25,000	\$2,626,516	\$70,400	\$2,500	\$490,000	\$3,873,853
Subtotal: C&I EE Portfolio	\$1,448,759	\$5,200	\$829,311	\$25,000	\$13,674,788	\$290,515	\$21,500	\$759,257	\$17,054,330
OTHER - EDUCATION & ENGAGEMENT									
Educate the Public	\$81,103	\$7,026	\$140,939	\$25,698	\$8,014	\$9,777	\$40,164	\$14,913	\$327,634
Customer Engagement	\$9,500	\$ -	\$265,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$275,000
Educate the Students	\$51,825	\$1,012	\$30,329	\$ -	\$ -	\$12,886	\$6,400	\$300	\$102,752
Educate the Workforce	\$19,434	\$285	\$115,864	\$ -	\$ -	\$1,634	\$3,800	\$450	\$141,467
Subtotal: Education & Engagement	\$161,862	\$8,323	\$552,632	\$25,698	\$8,014	\$24,297	\$50,364	\$15,663	\$846,852
OTHER - PROGRAMS/REQUIREMENTS									
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
Subtotal: Programs/Requirements	\$48,690	\$ -	\$151,250	\$ -	\$ -	\$ -	\$187,109	\$ -	\$387,049
OTHER - LOAD MANAGEMENT									
Residential Demand Response	\$183,579	\$ -	\$1,802,416	\$ -	\$488,229	\$26,250	\$59,902	\$10,500	\$2,570,876
C&I Demand Response	\$24,477	\$ -	\$260,803	\$ -	\$74,800	\$11,250	\$5,625	\$4,500	\$381,455
Subtotal: Load Management	\$208,056	\$ -	\$2,063,219	\$ -	\$563,029	\$37,500	\$65,527	\$15,000	\$2,952,331
OTHER - ADMINISTRATIVE & PLANNING									
Administration	\$250,406	\$ -	\$1,000	\$ -	\$ -	\$ -	\$ -	\$21,703	\$273,109
Marketing Plan	\$ -	\$ -	\$0	\$ -	\$ -	\$121,400	\$ -	\$ -	\$121,400
Planning	\$103,872	\$ -	\$32,271	\$ -	\$ -	\$ -	\$ -	\$4,250	\$140,393
Evaluation Measurement and Verification	\$ -	\$ -	\$480,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$480,000
Evaluation Administrator	\$ -	\$ -	\$52,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$52,635
Information Technology	\$98,310	\$ -	\$227,593	\$ -	\$ -	\$ -	\$ -	\$132,260	\$458,164
Energy Efficiency Board Consultants	\$ -	\$ -	\$104,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$104,000
Audits - Financial and Operational	\$ -	\$ -	\$24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$24,000
Performance Management Incentive (PMI)	\$ -	\$ -	\$0	\$ -	\$ -	\$ -	\$1,584,066	\$ -	\$1,584,066
Subtotal: Admin/Planning Expenditures	\$452,588	\$ -	\$921,499	\$ -	\$ -	\$121,400	\$1,584,066	\$158,213	\$3,237,767
TOTAL BUDGET	\$2,961,673	\$13,523	\$5,748,291	\$50,698	\$24,390,246	\$890,437	\$1,928,434	\$982,868	\$36,966,170

United Illuminating Electric Table C Pie Chart (2021)

**THE UNITED ILLUMINATING COMPANY
2021 ENERGY EFFICIENCY
EE BUDGET BY EXPENSE CLASS**



<u>Expense Classes</u>	<u>Budget</u>	<u>% of Budget</u>
UI Labor	\$ 2,961,673	8.01%
Materials & Supplies	\$ 13,523	0.04%
Outside Services	\$ 5,748,291	15.55%
Contractor Labor	\$ 50,698	0.14%
Incentives	\$ 24,390,246	65.98%
Marketing	\$ 890,437	2.41%
Other	\$ 1,928,434	5.22%
Administrative Expenses	\$ 982,868	2.66%
Total	\$ 36,966,170	100.00%

Totals may vary due to rounding.

Table D – United Illuminating Electric Historical and Projected (\$) (2012-2023)**Table D
The United Illuminating Company Electric Historical and Projected \$ (2012-2023)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual
RESIDENTIAL						
Residential Retail Products	2,401	2,084	3,908	3,368	4,422	4,091
Residential New Construction	256	171	257	285	497	481
Home Energy Solutions (HVAC, Duct Sealing, Lighting), (Core Services only 2016-2023)	2,991	2,958	4,591	3,710	3,256	3,154
HES - HVAC, Water Heaters (2016-2023)	-	-	-	-	1,016	1,120
HES-Income Eligible	2,738	4,776	3,897	3,319	3,808	3,770
Residential Behavior	-	-	137	710	489	72
Subtotal: Residential EE Portfolio	8,386	9,989	12,790	11,392	13,488	12,688
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	2,401	2,084	3,908	3,368	4,422	4,091
Total - Lost Opportunity	256	171	257	285	497	481
C&I LARGE RETROFIT						
Energy Opportunities	3,377	4,124	7,261	9,501	11,003	9,622
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	252	358	653	731	503	541
PRIME (2009-2015)	3,629	4,482	7,914	10,232	11,506	10,163
Total - C&I Large Retrofit	2,639	2,404	2,553	3,548	3,349	4,430
Small Business	8,452	8,989	14,427	16,467	17,946	16,873
Subtotal: C&I EE Portfolio	3,377	4,124	7,261	9,501	11,003	9,622
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	-	-	-	-	564	542
Customer Engagement	-	-	-	-	137	20
Educate the Students	-	-	-	-	127	203
Educate the Workforce	-	-	-	-	76	54
SmartLiving Center® - Museum Partnerships	580	602	1,095	513	-	-
Science Center	337	343	304	322	-	-
EE Smarts/K-12 Education	112	241	360	492	-	-
Clean Energy Communities / Behavior Pilot	1,029	1,186	1,759	1,327	904	819
Subtotal: Education & Engagement	-	-	-	-	564	542
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (includes ECLF and OBR)	781	158	920	596	249	208
C&I Financing Support (2016-2018)	-	-	-	-	87	98
Research, Development & Demonstration	-	-	-	-	-	-
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	119	290	59	9	74	185
ESPC Project Manager - Lead By Example	112	112	90	99	-	-
C&I Loan Program	-	3	17	7	-	-
EE Loan Defaults	-	9	16	34	-	-
C&I Self-Funding	36	32	-	1	-	-
Other Funding Requests	-	-	1,000	-	-	-
Subtotal: Other Programs & Requirements	-	-	-	-	-	-
OTHER - LOAD MANAGEMENT						
ISO Load Response Program	-	-	-	-	339	644
Residential Demand Response	-	-	-	-	-	18
C&I Demand Response	-	-	-	-	339	662
Subtotal: Load Management	-	-	-	-	339	644
OTHER - ADMINISTRATIVE & PLANNING						
Administration	719	901	648	532	475	551
Marketing Plan	112	35	247	249	227	175
Planning	259	344	314	214	315	283
Evaluation Measurement & Verification	449	736	486	642	480	494
Evaluation Administrator	-	-	46	52	48	34
Information Technology	432	249	192	308	402	273
Energy Efficiency Board Consultants	320	232	287	54	208	208
Audits - Financial and Operational	-	-	-	-	-	24
Performance Management Incentive (PMI)	1,261	1,518	1,743	1,821	2,353	2,370
Subtotal: Admin/Planning Expenditures	3,552	4,016	3,963	3,872	4,508	4,412
TOTAL (includes ISO Load Response)	22,468	24,784	35,041	33,804	37,595	35,945
TOTAL (excludes ISO Load Response)	719	901	648	532	475	551

Table D – United Illuminating Electric Historical and Projected (\$) (2012-2023)(continued)**Table D
The United Illuminating Company Electric Historical and Projected \$ (2012-2023)**

	2018 Actual	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget
RESIDENTIAL						
Residential Retail Products	1,070	2,060	2,795	1,834	1,664	1,539
Residential New Construction	(36)	795	423	620	558	516
Home Energy Solutions (HVAC, Duct Sealing, Lighting), (Core Services only 2016-2023)	2,117	2,815	3,522	3,600	2,973	2,794
HES - HVAC, Water Heaters (2016-2023)	1,229	1,651	1,323	1,939	1,782	1,649
HES-Income Eligible	2,732	4,181	2,076	4,112	4,000	3,689
Residential Behavior	0	32	193	382	360	344
Subtotal: Residential EE Portfolio	7,112	11,533	10,333	12,488	11,336	10,531
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	1,721	4,622	2,904	4,267	3,825	3,580
Total - Lost Opportunity	1,721	4,622	2,904	4,267	3,825	3,580
C&I LARGE RETROFIT						
Energy Opportunities	4,208	6,213	12,358	7,737	6,928	6,408
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	358	720	826	1,177	1,047	969
PRIME (2009-2015)	4,566	6,933	13,183	8,914	7,975	7,377
Total - C&I Large Retrofit	2,285	2,298	3,914	3,874	3,468	3,208
Small Business	8,572	13,854	20,001	17,054	15,268	14,165
Subtotal: C&I EE Portfolio	4,208	6,213	12,358	7,737	6,928	6,408
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	294	290	174	328	328	328
Customer Engagement	8	-	-	275	275	275
Educate the Students	83	109	112	103	103	103
Educate the Workforce	36	58	78	141	141	141
SmartLiving Center® - Museum Partnerships	-	-	-	-	-	-
Science Center	-	-	-	-	-	-
EE Smarts/K-12 Education	-	-	-	-	-	-
Clean Energy Communities / Behavior Pilot	421	458	364	847	847	847
Subtotal: Education & Engagement	294	290	174	328	328	328
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (includes ECLF and OBR)	74	72	157	151	151	151
C&I Financing Support (2016-2018)	-	-	-	85	85	85
Research, Development & Demonstration	-	-	-	-	-	-
Institute for Sustainable Energy (ECSU) (moved to Educate the Workforce)	80	49	26	151	151	151
ESPC PM - Lead By Example	-	-	-	-	-	-
C&I Loan Program	-	-	-	-	-	-
EE Loan Defaults	-	-	-	-	-	-
C&I Self-Funding	-	-	-	-	-	-
Other Funding Requests	-	-	-	-	-	-
Subtotal: Other Programs/ & Requirements	-	-	-	-	-	-
OTHER - LOAD MANAGEMENT						
ISO Load Response Program	558	853	417	2,571	2,571	2,571
Residential Demand Response	158	80	104	381	575	575
C&I Demand Response	716	933	521	2,952	3,146	3,146
Subtotal: Load Management	558	853	417	2,571	2,571	2,571
OTHER - ADMINISTRATIVE & PLANNING						
Administration	378	255	249	273	281	281
Marketing Plan	73	43	17	121	121	121
Planning	205	125	227	140	140	140
Evaluation Measurement & Verification	256	256	478	480	480	480
Evaluation Administrator	45	45	52	53	53	53
Information Technology	335	231	156	458	458	458
Energy Efficiency Board Consultants	76	74	104	104	104	104
Audits - Financial and Operational	12	24	4	24	24	24
PMI	1,321	1,904	993	1,584	1,461	1,375
Subtotal: Admin/Planning Expenditures	2,700	2,957	2,281	3,238	3,122	3,036
TOTAL (includes ISO Load Response)	19,676	29,857	33,683	36,966	34,107	32,112
TOTAL (excludes ISO Load Response)	378	255	249	273	281	281

Table D1 – United Illuminating Electric Historical and Projected (kW) (2012-2021)

Table D1
The United Illuminating Company Electric Historical and Projected kW (2012-2021)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
Residential Retail Products	4,008	2,008	1,860	1,907	2,757	3,180	3,365	610	1,569	966
Residential New Construction	99	26	47	130	75	140	58	42	122	170
Home Energy Solutions (HVAC, Duct Sealing, Lighting) (Core Services only 2016-2021)	714	540	553	783	537	551	561	273	691	955
Home Energy Solutions - HVAC, Water Heaters (2016-2021)						86	97	78	271	636
HES-Income Eligible	263	188	473	268	192	427	542	108	366	520
Residential Behavior	-	-	-	-	-	-	-	-	-	-
Subtotal: Residential EE Portfolio	5,084	2,762	2,933	3,088	3,561	4,384	4,623	1,110	3,019	3,248
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	1,071	1,539	1,267	1,344	1,414	1,567	992	386	1,948	1,834
Total - Lost Opportunity	1,071	1,539	1,267	1,344	1,414	1,567	992	386	1,948	1,834
C&I LARGE RETROFIT										
Energy Opportunities	1,840	1,844	1,164	2,171	4,331	3,830	4,348	1,347	2,942	2,607
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	34	11	20	93	153	113	7	27	-	457
PRIME (2009-2015)	1,874	1,855	1,184	2,264	4,484	3,943	4,355	1,375	2,942	3,064
Total - C&I Large Retrofit	811	815	579	587	1,176	1,238	1,316	515	498	1,298
Small Business	3,756	4,209	3,030	4,195	7,074	6,748	6,663	2,276	5,388	6,196
Subtotal: C&I EE Portfolio	1,840	1,844	1,164	2,171	4,331	3,830	4,348	1,347	2,942	2,607
OTHER - LOAD MANAGEMENT										
ISO Load Response Program	-	-	-	-	-	-	-	-	-	3,429
Residential Demand Response										794
C&I Demand Response	-	-	-	-	-	-	-	-	-	4,223
Subtotal Load Management	8,840	6,971	5,963	7,283	10,635	11,132	11,286	3,386	8,407	13,668

Table D2 – United Illuminating Electric Historical and Projected Annual kWh (000s) (2012-2021)**Table D2
UI Historical and Projected Annual kWh (000s) (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
Residential Retail Products	22,554	21,333	21,900	22,493	25,732	27,168	3,510	11,254	9,882	5,943
Residential New Construction	101	180	203	145	405	231	210	496	304	389
Home Energy Solutions	3,582	2,344	4,492	3,207	2,635	2,789	2,721	2,983	1,580	1,524
HVAC/Water Heaters	-	-	-	-	1,948	2,032	1,367	1,335	649	671
HES-Income Eligible	3,131	3,787	3,754	1,994	4,450	3,765	3,648	4,226	1,270	1,996
Residential Behavior	-	-	-	4,204	4,265	3,396	-	-	-	812
Subtotal: Residential EE Portfolio	29,368	27,644	30,349	32,043	39,435	39,381	11,456	20,294	13,685	11,334
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	7,098	8,277	12,505	7,942	10,688	5,660	5,821	16,558	4,550	7,693
Total - Lost Opportunity	7,098	8,277	12,505	7,942	10,688	5,660	5,821	16,558	4,550	7,693
C&I LARGE RETROFIT										
Energy Opportunities	14,860	10,833	19,506	35,303	34,249	40,174	20,639	19,164	26,627	13,701
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	750	1,939	3,112	2,072	1,636	567	164	1,258	1,852	2,510
Total - C&I Large Retrofit	15,610	12,772	22,618	37,375	35,885	40,741	20,803	20,422	28,479	16,212
Small Business	6,321	5,131	7,114	8,297	8,053	8,847	6,238	3,532	3,135	6,259
Subtotal: C&I EE Portfolio	29,029	26,180	42,237	53,614	54,626	55,248	32,862	40,512	36,164	30,163
TOTAL	58,397	53,824	72,586	85,657	94,061	94,629	44,318	60,806	49,849	41,497

Table D3 – United Illuminating Electric Historical and Projected Lifetime kWh (000s)**Table D3
UI Historical and Projected Lifetime kWh (000) (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
Residential Retail Products	118,010	124,693	181,837	214,911	302,910	218,858	21,744	58,083	43,986	21,051
Residential New Construction	1,113	1,702	2,498	1,817	5,995	1,836	3,169	8,319	3,441	8,901
Home Energy Solutions	38,988	23,439	57,406	43,369	31,635	28,492	24,573	23,696	15,343	17,255
HVAC/Water Heaters					26,930	26,354	24,042	22,619	10,468	11,205
HES-Income Eligible	35,418	46,117	50,273	24,573	58,090	42,317	40,013	45,338	18,007	17,760
Residential Behavior	-	-	-	10,931	11,088	8,830	-	-	-	1,624
Subtotal: Residential EE Portfolio	193,529	195,951	292,014	295,601	436,648	326,687	113,541	158,055	91,245	77,797
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	106,078	128,278	195,048	121,435	160,561	89,308	98,486	264,135	66,080	132,312
Total - Lost Opportunity	106,078	128,278	195,048	121,435	160,561	89,308	98,486	264,135	66,080	132,312
C&I LARGE RETROFIT										
Energy Opportunities	183,875	137,393	230,606	393,904	415,779	480,512	254,831	216,084	313,454	162,166
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	5,177	14,596	24,020	12,710	9,922	2,837	821	6,292	10,560	15,062
Total - C&I Large Retrofit	189,052	151,989	254,626	406,614	425,701	483,349	255,652	222,376	324,014	177,228
Small Business	79,627	65,167	88,661	103,281	100,003	110,908	78,121	42,728	37,734	70,374
Subtotal: C&I EE Portfolio	374,757	345,434	538,335	631,330	686,265	683,565	432,259	529,239	427,828	379,914
TOTAL	568,286	541,385	830,349	926,931	1,122,913	1,010,252	545,800	687,294	519,073	457,711

Table D5 – United Illuminating Electric Historical and Cost per Projected kW (2012-2021)**Table D5
The United Illuminating Company Electric Historical and Cost per Projected kW (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential Retail Products	\$ 657	\$ 1,196	\$ 1,120	\$ 2,049	\$ 1,222	\$ 1,391	\$ 1,216	\$ 1,755	\$ 1,313	\$2,892
Residential New Construction	\$ 495	\$ 9,846	\$ 3,638	\$ 1,977	\$ 3,800	\$ 3,550	\$ 8,293	\$ (843)	\$ 6,514	\$2,484
Home Energy Solutions	\$ 4,784	\$ 5,539	\$ 5,349	\$ 5,863	\$ 6,909	\$ 5,909	\$ 5,622	\$ 7,750	\$ 4,074	\$3,688
Home Energy Solutions - HVAC						\$11,814	\$11,546	\$15,822	\$ 6,093	\$2,079
HES-Income Eligible	\$11,814	\$14,564	\$10,097	\$14,541	\$17,286	\$ 8,918	\$ 6,956	\$25,362	\$11,423	\$3,992
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$ 1,810	\$ 3,036	\$ 3,406	\$ 4,142	\$ 3,199	\$ 3,077	\$ 2,745	\$ 6,405	\$ 3,820	\$3,181
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$ 2,811	\$ 1,419	\$ 1,660	\$ 2,946	\$ 1,900	\$ 1,973	\$ 2,298	\$ 4,456	\$ 2,373	\$1,583
Total - Lost Opportunity	\$ 2,811	\$ 1,419	\$ 1,660	\$ 2,946	\$ 1,900	\$ 1,973	\$ 2,298	\$ 4,456	\$ 2,373	\$1,583
C&I LARGE RETROFIT										
Energy Opportunities	\$ 2,670	\$ 1,831	\$ 3,543	\$ 3,345	\$ 2,194	\$ 2,873	\$ 2,213	\$ 3,123	\$ 2,112	\$4,740
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP, SEM)	\$ 3,618	\$22,909	\$17,900	\$ 7,022	\$ 4,778	\$ 4,451	\$77,286	\$13,126	NA	\$1,806
Total - C&I Large Retrofit	\$ 2,687	\$ 1,956	\$ 3,785	\$ 3,496	\$ 2,282	\$ 2,918	\$ 2,334	\$ 3,321	\$ 2,357	\$4,302
Small Business	\$ 1,818	\$ 3,238	\$ 4,152	\$ 4,349	\$ 3,017	\$ 2,705	\$ 3,366	\$ 4,438	\$ 4,615	\$3,016
Subtotal: C&I EE Portfolio	\$ 2,535	\$ 2,008	\$ 2,967	\$ 3,439	\$ 2,328	\$ 2,659	\$ 2,532	\$ 3,767	\$ 2,571	\$3,228
OTHER - LOAD MANAGEMENT										
Demand Response Pilot - Residential	-	-	-	-	-	-	-	-	-	\$ 122
Demand Response Pilot - C&I	-	-	-	-	-	-	-	-	-	\$ 131
Subtotal Load Management	-	-	-	-	-	-	-	-	-	\$ 253

Table D6 – United Illuminating Electric Historical and Cost per Projected Annual kWh (2012-2021)**Table D6
UI Historical and Projected Program Ratios
\$/kWh (Annual)**

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL											
Residential Retail Products	\$0.058	\$0.106	\$0.098	\$0.178	\$0.150	\$0.172	\$0.151	\$0.305	\$0.183	\$0.283	\$0.309
Appliance Retirement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential New Construction	\$0.166	\$2.535	\$0.950	\$1.266	\$1.966	\$1.227	\$2.082	\$(0.169)	\$1.602	\$1.393	\$1.595
Home Energy Solutions	\$0.965	\$0.835	\$1.262	\$1.022	\$1.157	\$1.236	\$1.131	\$0.778	\$0.944	\$2.229	\$2.363
HVAC/ Water Heaters						\$0.522	\$0.551	\$0.899	\$1.237	\$2.038	\$2.892
HES-Income Eligible	\$0.660	\$0.874	\$1.261	\$1.038	\$1.664	\$0.856	\$1.001	\$0.749	\$0.989	\$1.635	\$2.060
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$0.169	\$0.115	\$0.021	NA	NA	N/A	\$0.470
Subtotal: Residential EE Portfolio	\$0.170	\$0.286	\$0.361	\$0.421	\$0.356	\$0.342	\$0.322	\$0.621	\$0.568	\$0.755	\$1.102
COMMERCIAL & INDUSTRIAL											
C&I LOST OPPORTUNITY											
Energy Conscious Blueprint	\$0.283	\$0.308	\$0.254	\$0.317	\$0.338	\$0.289	\$0.403	\$0.296	\$0.279	\$0.638	\$0.555
Total - Lost Opportunity	\$0.283	\$0.308	\$0.254	\$0.317	\$0.338	\$0.289	\$0.403	\$0.296	\$0.279	\$0.638	\$0.555
C&I LARGE RETROFIT											
C&I RFP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Energy Opportunities	\$0.307	\$0.227	\$0.381	\$0.372	\$0.269	\$0.321	\$0.240	\$0.204	\$0.324	\$0.464	\$0.565
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.898	\$0.336	\$0.185	\$0.210	\$0.353	\$0.307	\$0.954	\$2.180	\$0.573	\$0.446	\$0.469
Total - C&I Large Retrofit	\$0.312	\$0.232	\$0.351	\$0.350	\$0.274	\$0.321	\$0.249	\$0.219	\$0.340	\$0.463	\$0.550
Small Business	\$0.288	\$0.417	\$0.469	\$0.359	\$0.428	\$0.416	\$0.501	\$0.366	\$0.651	\$1.248	\$0.619
Subtotal: C&I EE Portfolio	\$0.298	\$0.291	\$0.343	\$0.342	\$0.307	\$0.329	\$0.305	\$0.261	\$0.342	\$0.553	\$0.565

Table D7– United Illuminating Electric Historical and Cost per Projected Lifetime kWh (2012-2021)

**Table D7
UI Historical and Projected Program Ratios
\$/LT kWh**

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL											
Residential Retail Products	\$0.015	\$0.020	\$0.017	\$0.021	\$0.016	\$0.015	\$0.019	\$ 0.049	\$0.035	\$0.064	\$0.087
Appliance Retirement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential New Construction	\$0.014	\$0.230	\$0.100	\$0.103	\$0.157	\$0.083	\$0.262	\$(0.011)	\$0.096	\$0.123	\$0.070
Home Energy Solutions	\$0.110	\$0.077	\$0.126	\$0.080	\$0.086	\$0.103	\$0.111	\$ 0.086	\$0.119	\$0.230	\$0.209
HVAC/ Water Heaters	\$ -	\$ -	\$ -	\$ -	\$ -	\$0.038	\$0.042	\$ 0.051	\$0.073	\$0.126	\$0.173
HES-Income Eligible	\$0.059	\$0.077	\$0.104	\$0.078	\$0.135	\$0.066	\$0.089	\$ 0.068	\$0.092	\$0.115	\$0.232
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$0.065	\$0.044	\$0.008	NA	NA	N/A	\$0.235
Subtotal: Residential EE Portfolio	\$0.034	\$0.043	\$0.051	\$0.044	\$0.039	\$0.031	\$0.039	\$ 0.063	\$0.073	\$0.113	\$0.161
COMMERCIAL & INDUSTRIAL											
C&I LOST OPPORTUNITY											
Energy Conscious Blueprint	\$0.018	\$0.021	\$0.016	\$0.020	\$0.022	\$0.019	\$0.026	\$ 0.017	\$0.018	\$0.044	\$0.032
Total - Lost Opportunity	\$0.018	\$0.021	\$0.016	\$0.020	\$0.022	\$0.019	\$0.026	\$ 0.017	\$0.018	\$0.044	\$0.032
C&I LARGE RETROFIT											
C&I RFP	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Energy Opportunities	\$0.024	\$0.018	\$0.030	\$0.031	\$0.024	\$0.026	\$0.020	\$ 0.017	\$0.029	\$0.039	\$0.048
Business & Energy Sustainability (O&M, RCx, BSC, PRIME, CSP/SEM)	\$0.144	\$0.049	\$0.025	\$0.027	\$0.058	\$0.051	\$0.191	\$ 0.436	\$0.114	\$0.078	\$0.078
Total - C&I Large Retrofit	\$0.024	\$0.019	\$0.029	\$0.031	\$0.025	\$0.027	\$0.021	\$ 0.018	\$0.031	\$0.041	\$0.050
Small Business	\$0.023	\$0.033	\$0.037	\$0.029	\$0.034	\$0.033	\$0.040	\$ 0.029	\$0.054	\$0.104	\$0.055
Subtotal: C&I EE Portfolio	\$0.022	\$0.023	\$0.026	\$0.027	\$0.026	\$0.026	\$0.025	\$ 0.020	\$0.026	\$0.047	\$0.045

United Illuminating Electric PMI (2021)

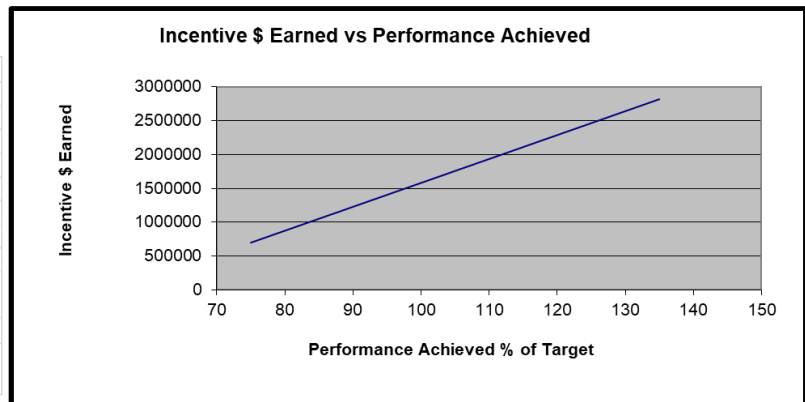
**THE UNITED ILLUMINATING COMPANY ELECTRIC
2021 Management Incentive Performance Indicators and Incentive Matrix**

The United Illuminating Company 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 2019-2021 Plan. The projected The United Illuminating Company Electric Performance Incentive is **\$1,584,066** and is based on achieving **100%** of all performance targets and earning an incentive of **4.5%** of the total EE program budget of **\$153,640,654** 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>Pretax</u>	<u>Pre-tax Incentive</u>
75	2.0%	\$704,029
85	3.0%	\$1,056,044
95	4.0%	\$1,408,059
100	4.5%	\$1,584,066
105	5.0%	\$1,760,073
115	6.0%	\$2,112,088
125	7.0%	\$2,464,103
135	8.0%	\$2,816,118
Total Original Budget* \$35,201,469		

*Does not include Incentive, EEB costs, and Audit.



United Illuminating Electric PMI (2021) (continued)

SECTOR		Performance Indicators		Incentive Metrics				
Program				Incentive Metric	Target Goal	Weight	Incentive	
RESIDENTIAL								
All Residential Programs (Sector Level) Sector Budget	\$ 12,487,841	Residential Products & Services Lifetime kWh	21,051,491	Total Electric System Benefit from all Res programs	Electric System Benefit from all Res programs	0.1925	\$304,933	
		Residential Products & Services kW	869		Total Electric System Benefit:			
		Homes Lifetime kWh	8,900,566					\$17,048,267
		Homes kW	246					
		Home Energy Solutions Lifetime kWh	17,255,233					
		Home Energy Solutions kW	675					
		HVAC/Water Heaters kW	245					
		HES Income Eligible Lifetime kWh	17,760,474					
		HES Income Eligible kW	133					
		Residential Behavior Lifetime kWh	1,624,000					
		Residential Behavior kW	0					
		Total Residential Lifetime kWh	77,797,079					
		Total Residential kW	2,169					
		Present Value of Res Lifetime kWh	\$0.0988					
		Present Value of Res Lifetime kW @ Customer Meter	\$4,317.32					
		Total Res Lifetime kWh @ Present Value Factor	\$7,686,009					
		Total Res kW @ Present Value Factor	\$9,362,258					
		Total Electric System Benefit	\$17,048,267					
		The Net Electric System Benefit from all Res programs	\$4,560,426					
		All Residential Programs (Sector Level)						

United Illuminating Electric PMI (2021) (continued)

SECTOR		Performance Indicators	Incentive Metrics				
Program			Incentive Metric	Target Goal	Weight	Incentive	
RESIDENTIAL							
Residential New Construction	\$620,438	Percentage of single-family and single-family attached homes/units in the RNC program that achieve a HERS rating of 50 or less. Based on 2020 Actual plus 4% points.	Energy savings included in appropriate sector level metric		0.0150	\$23,761	
HES	\$3,600,244	MMBTU per single-family home (not including lighting) for Core Service that have air sealing completed (i.e., non-barriered homes). Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0%.	Energy savings included in appropriate sector level metric Increase HES savings per home	Achieve MMBTU in HES per single-family home savings across all fuels	0.0200	\$31,681	
		Number of homes that receive insulation rebates/Number of homes that receive HES Assessments - based on 2020 actuals plus 2%.	Increase homes being weatherized	% of homes that receive insulation rebates	0.0100	\$15,841	
Equitable Distribution		The Companies will track the participation in HES or HES-IE from January 1, 2021 through December 31, 2021 of all customers automatically enrolled in the Matching Payment Program ("MPP") at the time of November 1, 2020 and achieve 2.1% participation. The Companies will track participation.			0.0200	\$31,681	
HES - Income Eligible	\$4,111,608	Expend the HES-IE Budget - Full Penalty is 5% times HES-IE Budgeted Spending. Expending 95% spending avoids the penalty. The penalty is on sliding scale from 85% to 95%. Above 85% spending, the penalty is scaled with a 10% reduction in the penalty for each one percent increase in budget spend above 85%.	Energy savings included in appropriate sector level metric Expend 2021 HES-IE Budget	This is a penalty metric - 5%	0.025	\$39,602	
		MMBTU per single-family home for Core Services that have air sealing completed (i.e., non-barriered homes). Based on 2020 actuals adjusted to 2020 CT PSD plus 2.0%.	Increase HES-IE savings per home	Achieve MMBTU in HES-IE per single-family home savings across all fuels			

United Illuminating Electric PMI (2021) (continued)

SECTOR		Performance Indicators		Incentive Metrics			
Program				Incentive Metric	Target Goal	Weight	Incentive
COMMERCIAL & INDUSTRIAL (C/I)							
All C/I Programs (Sector Level) Sector Budget	\$17,054,330	Energy Blueprint Lifetime kWh	132,311,666	Total Electric System Benefit from all C&I programs	Electric System Benefit from all C&I programs	0.2075	\$328,694
		Energy Blueprint kW	999		Total Electric System Benefit:		
		Energy Opportunities Lifetime kWh	162,166,191		\$56,898,807		
		Energy Opportunities kW	1,601				
		B&ES (RCx, BOC, RFP, PRIME, CSP/SEM) Lifetime kWh	15,061,765				
		B&ES kW	505				
		Small Business Lifetime kWh	70,374,090				
		Small Business kW	552				
		Total C&I Lifetime kWh	379,913,712				
		Total C&I kW	3,657				
		Present Value of C&I Lifetime kWh	\$0.0897				
		Present Value of C&I Lifetime kW @ Customer Meter	\$6,243.96				
		Total C&I Lifetime kWh @ Present Value Factor	\$34,063,869				
		Total C&I kW @ Present Value Factor	\$22,834,938				
		Total Electric System Benefit	\$56,898,807				
The Net Electric System Benefit from all C&I programs:	\$39,844,477						
All C/I Programs (Sector Level) Sector Budget		Total Net Electric System Benefit from all C&I programs.	\$39,844,477	Total Program Benefit from all C&I programs.	0.2075	\$328,694	

United Illuminating Electric PMI (2021) (continued)

SECTOR		Performance Indicators	Incentive Metrics			
Program			Incentive Metric	Target Goal	Weight	Incentive
COMMERCIAL & INDUSTRIAL (C/I)						
Small Business	\$3,873,853	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). This is based on 2019 Actual results plus 5%.	Continue to Promote Comprehensive Projects	% of signed projects	0.025	\$39,602
Energy Conscious Blueprint	\$4,266,953	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 Energy Projects and at least one towards Net Zero Energy project which shall include renewable energy technologies such as, but not limited to, Solar PV, Solar Thermal, Fuel Cells, CHP, and Wind.	Continue to Advance Projects That Are More Efficient than the State Energy Code, etc.	% of signed projects	0.02	\$31,681
Energy Opportunities	\$7,736,838	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%.	Continue to Advance Projects That Are More Efficient than the State Energy Code, etc.	% of all signed projects	0.025	\$39,602

United Illuminating Electric PMI (2021) (continued)

SECTOR		Performance Indicators	Incentive Metrics			
Program			Incentive Metric	Target Goal	Weight	Incentive
COMMERCIAL & INDUSTRIAL (C/I)						
Equitable Distribution	Quartile 1 Healthcare	The Companies will increase savings from customers in the Quartile 1 Healthcare sector by 4% (relative to baseline average)			0.003750	\$5,940
	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)			0.003750	\$5,940
	Quartile 3 Healthcare	The Companies will increase savings from customers in the Quartile 3 Healthcare sector by 2% (relative to baseline average)			0.003750	\$5,940
	Quartile 4 Retail	The Companies will increase savings from customers in the Quartile 4 Retail sector by 0.44% (relative to baseline average)			0.003750	\$5,940
Strategic Energy Management		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	CEE SEM Minimum Elements	0.015	\$23,761
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	0.01	\$15,841
All C&I Programs		Electric Savings	Electric Savings include in appropriate sector level metric			
Total Incentive \$ Residential and C&I					1.0000	\$1,584,066

D.5. COMBINED NATURAL GAS BUDGET AND SAVINGS TABLES**Combined Natural Gas Table A1 (2019)**

Table A1
Eversource CT Gas, CNG, and SCG
2019-2023 Natural Gas Budget

Natural Gas EE Budget	2019			
	2019 Eversource CT Gas Actual Results 12/31/19	2019 CNG Actual Results 12/31/19	2019 SCG Actual Results 12/31/19	2019 Eversource CT Gas/CNG/SCG Combined Total 12/31/19
RESIDENTIAL				
Residential New Construction	\$ 887,551	\$ 345,274	\$ 498,505	\$ 1,731,330
Home Energy Solutions - Core Services	\$ 2,572,719	\$ 1,652,699	\$ 1,857,838	\$ 6,083,256
Home Energy Solutions - HVAC, Water Heaters	\$ 3,441,578	\$ 2,571,973	\$ 3,493,108	\$ 9,506,659
HES-Income Eligible	\$ 3,404,495	\$ 4,515,924	\$ 3,049,996	\$ 10,970,415
Residential Behavior	\$ 414,553	\$ 29,744	\$ 29,770	\$ 474,067
Subtotal: Residential EE Portfolio	\$ 10,720,896	\$ 9,115,614	\$ 8,929,218	\$ 28,765,728
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 3,177,795	\$ 1,418,405	\$ 1,225,977	\$ 5,822,177
Total - Lost Opportunity	\$ 3,177,795	\$ 1,418,405	\$ 1,225,977	\$ 5,822,177
C&I LARGE RETROFIT				
Energy Opportunities	\$ 3,236,775	\$ 1,244,788	\$ 733,604	\$ 5,215,167
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 972,152	\$ 403,019	\$ 197,331	\$ 1,572,502
Total - C&I Large Retrofit	\$ 4,208,927	\$ 1,647,807	\$ 930,935	\$ 6,787,669
Small Business	\$ 220,886	\$ 252,653	\$ 216,506	\$ 690,045
Subtotal: C&I EE Portfolio	\$ 7,607,608	\$ 3,318,865	\$ 2,373,418	\$ 13,299,891
OTHER - EDUCATION & ENGAGEMENT				
Educate the Public	\$ 63,267	\$ 70,099	\$ 70,658	\$ 204,024
Customer Engagement	\$ 201,756	\$ -	\$ -	\$ 201,756
Educate the Students	\$ 27,256	\$ 30,305	\$ 30,515	\$ 88,076
Educate the Workforce	\$ 5,699	\$ 16,112	\$ 16,111	\$ 37,922
Subtotal: Education & Engagement	\$ 297,978	\$ 116,516	\$ 117,284	\$ 531,778
OTHER - PROGRAMS/REQUIREMENTS				
Residential Loan Program (includes ECLF and OBR)	\$ 80,075	\$ 65,874	\$ 81,757	\$ 227,706
C&I Financing Support	\$ 10,944	\$ -	\$ -	\$ 10,944
Research, Development and Demonstration	\$ 15,367	\$ 36,634	\$ 37,918	\$ 89,919
Subtotal: Programs/Requirements	\$ 106,386	\$ 102,508	\$ 119,675	\$ 328,569
OTHER - ADMINISTRATIVE & PLANNING				
Administration	\$ 92,906	\$ 119,626	\$ 119,729	\$ 332,261
Marketing Plan	\$ 14,890	\$ 18,173	\$ 18,173	\$ 51,236
Planning	\$ 137,312	\$ 114,452	\$ 106,494	\$ 358,258
Evaluation Measurement and Verification	\$ 218,102	\$ 217,523	\$ 217,524	\$ 653,149
Evaluation Administrator	\$ 21,008	\$ 18,667	\$ 18,667	\$ 58,342
Information Technology	\$ 143,627	\$ 148,063	\$ 127,849	\$ 419,539
Energy Efficiency Board Consultants	\$ 34,965	\$ 30,847	\$ 30,847	\$ 96,659
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive (PMI)	\$ 1,057,175	\$ 854,443	\$ 900,581	\$ 2,812,199
Subtotal: Other - Administrative & Planning	\$ 1,729,985	\$ 1,531,794	\$ 1,549,865	\$ 4,811,644
TOTAL	\$ 20,462,853	\$ 14,185,297	\$ 13,089,459	\$ 47,737,609

Combined Natural Gas Table A1 (2020)

Table A1
Eversource CT Gas, CNG, and SCG
2019-2023 Natural Gas Budget

Natural Gas EE Budget	2020			
	2020 Eversource CT Gas Actual Results 12/31/20	2020 CNG Actual Results 12/31/20	2020 SCG Actual Results 12/31/20	2020 Eversource CT Gas/CNG/SCG Combined Total 12/31/20
RESIDENTIAL				
Residential New Construction	\$ 489,620	\$ 470,451	\$ 463,333	\$ 1,423,404
Home Energy Solutions - Core Services	\$ 2,893,620	\$ 2,497,610	\$ 2,556,209	\$ 7,947,439
Home Energy Solutions - HVAC, Water Heaters	\$ 4,573,515	\$ 2,683,072	\$ 3,256,694	\$ 10,513,281
HES-Income Eligible	\$ 4,303,596	\$ 96,254	\$ 1,680,548	\$ 6,080,398
Residential Behavior	\$ -	\$ 151,126	\$ 151,126	\$ 302,252
Subtotal: Residential EE Portfolio	\$ 12,260,351	\$ 5,898,513	\$ 8,107,910	\$ 26,266,774
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 3,510,955	\$ 4,145,798	\$ 2,156,813	\$ 9,813,566
Total - Lost Opportunity	\$ 3,510,955	\$ 4,145,798	\$ 2,156,813	\$ 9,813,566
C&I LARGE RETROFIT				
Energy Opportunities	\$ 3,377,127	\$ 813,249	\$ 2,032,986	\$ 6,223,362
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 645,936	\$ 418,511	\$ 228,959	\$ 1,293,406
Total - C&I Large Retrofit	\$ 4,023,063	\$ 1,231,760	\$ 2,261,945	\$ 7,516,768
Small Business	\$ 125,273	\$ 118,716	\$ 237,722	\$ 481,711
Subtotal: C&I EE Portfolio	\$ 7,659,291	\$ 5,496,274	\$ 4,656,480	\$ 17,812,045
OTHER - EDUCATION & ENGAGEMENT				
Educate the Public	\$ 34,537	\$ 64,578	\$ 64,542	\$ 163,657
Customer Engagement	\$ 197,010	\$ -	\$ -	\$ 197,010
Educate the Students	\$ 33,239	\$ 31,421	\$ 31,404	\$ 96,065
Educate the Workforce	\$ 42,041	\$ 24,597	\$ 25,847	\$ 92,485
Subtotal: Education & Engagement	\$ 306,829	\$ 120,596	\$ 121,793	\$ 549,217
OTHER - PROGRAMS/REQUIREMENTS				
Residential Loan Program (includes ECLF and OBR)	\$ 99,172	\$ 52,478	\$ 61,749	\$ 213,399
C&I Financing Support	\$ -	\$ -	\$ -	\$ -
Research, Development and Demonstration	\$ 15,680	\$ 20,164	\$ 20,163	\$ 56,007
Subtotal: Programs/Requirements	\$ 114,852	\$ 72,642	\$ 81,912	\$ 269,406
OTHER - ADMINISTRATIVE & PLANNING				
Administration	\$ 121,815	\$ 81,470	\$ 80,628	\$ 283,913
Marketing Plan	\$ 35,467	\$ 10,696	\$ 9,312	\$ 55,475
Planning	\$ 136,377	\$ 114,343	\$ 114,343	\$ 365,064
Evaluation Measurement and Verification	\$ 200,000	\$ 197,792	\$ 200,835	\$ 598,627
Evaluation Administrator	\$ 25,798	\$ 21,866	\$ 21,865	\$ 69,529
Information Technology	\$ 122,356	\$ 97,802	\$ 78,797	\$ 298,955
Energy Efficiency Board Consultants	\$ 44,501	\$ 43,333	\$ 43,333	\$ 131,167
Audits - Financial and Operational	\$ 10,000	\$ 1,597	\$ 1,597	\$ 13,194
Performance Management Incentive (PMI)	\$ 1,277,162	\$ 727,765	\$ 629,890	\$ 2,634,818
Subtotal: Other - Administrative & Planning	\$ 1,973,476	\$ 1,296,665	\$ 1,180,601	\$ 4,450,741
TOTAL	\$ 22,314,798	\$ 12,884,689	\$ 14,148,696	\$ 49,348,183

Combined Natural Gas Table A1 (2021)

Table A1
Eversource CT Gas, CNG, and SCG
2019-2023 Natural Gas Budget

Natural Gas EE Budget	2021			
	2021 Eversource CT Gas Proposed Budget 03/01/21	2021 CNG Proposed Budget 03/01/21	2021 SCG Proposed Budget 03/01/21	2021 Eversource CT Gas/CNG/SCG Combined Total 03/01/21
RESIDENTIAL				
Residential New Construction	\$ 887,629	\$ 739,127	\$ 752,505	\$ 2,379,261
Home Energy Solutions - Core Services	\$ 1,949,441	\$ 2,842,878	\$ 2,438,604	\$ 7,230,923
Home Energy Solutions - HVAC, Water Heaters	\$ 3,096,217	\$ 2,321,127	\$ 3,269,078	\$ 8,686,422
HES-Income Eligible	\$ 3,792,458	\$ 4,288,661	\$ 2,809,339	\$ 10,890,459
Residential Behavior	\$ -	\$ 162,491	\$ 166,138	\$ 328,628
Subtotal: Residential EE Portfolio	\$ 9,725,745	\$ 10,354,285	\$ 9,435,663	\$ 29,515,693
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 3,815,820	\$ 2,200,847	\$ 1,811,859	\$ 7,828,526
Total - Lost Opportunity	\$ 3,815,820	\$ 2,200,847	\$ 1,811,859	\$ 7,828,526
C&I LARGE RETROFIT				
Energy Opportunities	\$ 3,555,712	\$ 1,251,158	\$ 1,188,421	\$ 5,995,291
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 592,154	\$ 725,292	\$ 531,797	\$ 1,849,243
Total - C&I Large Retrofit	\$ 4,147,865	\$ 1,976,450	\$ 1,720,218	\$ 7,844,534
Small Business	\$ 775,196	\$ 338,954	\$ 261,290	\$ 1,375,440
Subtotal: C&I EE Portfolio	\$ 8,738,881	\$ 4,516,252	\$ 3,793,368	\$ 17,048,500
OTHER - EDUCATION & ENGAGEMENT				
Educate the Public	\$ 123,642	\$ 76,089	\$ 76,089	\$ 275,820
Customer Engagement	\$ 232,000	\$ 100,000	\$ 100,000	\$ 432,000
Educate the Students	\$ 45,164	\$ 45,164	\$ 45,164	\$ 135,493
Educate the Workforce	\$ 36,774	\$ 67,473	\$ 67,473	\$ 171,719
Subtotal: Education & Engagement	\$ 437,581	\$ 288,726	\$ 288,726	\$ 1,015,032
OTHER - PROGRAMS/REQUIREMENTS				
Residential Loan Program (includes ECLF and 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
Subtotal: Programs/Requirements	\$ 228,428	\$ 156,292	\$ 211,292	\$ 596,012
OTHER - ADMINISTRATIVE & PLANNING				
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	\$ 200,000	\$ 200,000	\$ 200,000	\$ 600,000
Evaluation Administrator	\$ 21,931	\$ 21,931	\$ 21,931	\$ 65,793
Information Technology	\$ 140,726	\$ 140,589	\$ 140,590	\$ 421,904
Energy Efficiency Board Consultants	\$ 43,333	\$ 43,333	\$ 43,333	\$ 129,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive (PMI)	\$ 888,370	\$ 718,107	\$ 646,714	\$ 2,253,191
Subtotal: Other - Administrative & Planning	\$ 1,574,552	\$ 1,435,742	\$ 1,364,352	\$ 4,374,646
TOTAL	\$ 20,705,187	\$ 16,751,296	\$ 15,093,401	\$ 52,549,884

Combined Natural Gas Table A1 (2022)

Table A1
Eversource CT Gas, CNG, and SCG
2019-2023 Natural Gas Budget

Natural Gas EE Budget	2022			
	2022 Eversource CT Gas Proposed Budget 03/01/21	2022 CNG Proposed Budget 03/01/21	2022 SCG Proposed Budget 03/01/21	2022 Eversource CT Gas/CNG/SCG Combined Total 03/01/21
RESIDENTIAL				
Residential New Construction	\$ 973,061	\$ 718,491	\$ 960,099	\$ 2,651,651
Home Energy Solutions - Core Services	\$ 2,140,527	\$ 3,085,781	\$ 1,713,168	\$ 6,939,477
Home Energy Solutions - HVAC, Water Heaters	\$ 3,385,934	\$ 1,934,362	\$ 3,131,423	\$ 8,451,718
HES-Income Eligible	\$ 4,149,666	\$ 4,173,345	\$ 3,059,847	\$ 11,382,859
Residential Behavior	\$ -	\$ 157,960	\$ 157,557	\$ 315,518
Subtotal: Residential EE Portfolio	\$ 10,649,188	\$ 10,069,940	\$ 9,022,095	\$ 29,741,222
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 4,609,686	\$ 2,139,401	\$ 1,735,217	\$ 8,484,304
Total - Lost Opportunity	\$ 4,609,686	\$ 2,139,401	\$ 1,735,217	\$ 8,484,304
C&I LARGE RETROFIT				
Energy Opportunities	\$ 4,295,478	\$ 1,216,319	\$ 1,142,985	\$ 6,654,782
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 715,350	\$ 705,043	\$ 509,310	\$ 1,929,703
Total - C&I Large Retrofit	\$ 5,010,828	\$ 1,921,362	\$ 1,652,295	\$ 8,584,485
Small Business	\$ 936,472	\$ 329,491	\$ 250,242	\$ 1,516,205
Subtotal: C&I EE Portfolio	\$ 10,556,986	\$ 4,390,253	\$ 3,637,754	\$ 18,584,993
OTHER - EDUCATION & ENGAGEMENT				
Educate the Public	\$ 123,642	\$ 76,089	\$ 76,089	\$ 275,820
Customer Engagement	\$ 232,000	\$ 100,000	\$ 100,000	\$ 432,000
Educate the Students	\$ 45,164	\$ 45,164	\$ 45,164	\$ 135,493
Educate the Workforce	\$ 36,774	\$ 67,473	\$ 67,473	\$ 171,719
Subtotal: Education & Engagement	\$ 437,581	\$ 288,726	\$ 288,726	\$ 1,015,032
OTHER - PROGRAMS/REQUIREMENTS				
Residential Loan Program (includes ECLF and 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
Subtotal: Programs/Requirements	\$ 228,428	\$ 156,292	\$ 211,292	\$ 596,012
OTHER - ADMINISTRATIVE & PLANNING				
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	\$ 200,000	\$ 200,000	\$ 200,000	\$ 600,000
Evaluation Administrator	\$ 21,931	\$ 21,931	\$ 21,931	\$ 65,793
Information Technology	\$ 140,726	\$ 140,589	\$ 140,590	\$ 421,904
Energy Efficiency Board Consultants	\$ 43,333	\$ 43,333	\$ 43,333	\$ 129,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive (PMI)	\$ 1,011,740	\$ 699,641	\$ 621,101	\$ 2,332,482
Subtotal: Other - Administrative & Planning	\$ 1,697,922	\$ 1,417,277	\$ 1,338,739	\$ 4,453,937
TOTAL	\$ 23,570,105	\$ 16,322,487	\$ 14,498,605	\$ 54,391,198

Combined Natural Gas Table A1 (2023)

Table A1
Eversource CT Gas, CNG, and SCG
2019-2023 Natural Gas Budget

Natural Gas EE Budget	2023			
	2023 Eversource CT Gas Proposed Budget 03/01/21	2023 CNG Proposed Budget 03/01/21	2023 SCG Proposed Budget 03/01/21	2023 Eversource CT Gas/CNG/SCG Combined Total 03/01/21
RESIDENTIAL				
Residential New Construction	\$ 989,074	\$ 721,424	\$ 974,807	\$ 2,685,305
Home Energy Solutions - Core Services	\$ 2,175,751	\$ 3,098,381	\$ 1,739,412	\$ 7,013,545
Home Energy Solutions - HVAC, Water Heaters	\$ 3,441,653	\$ 1,942,260	\$ 3,175,800	\$ 8,559,713
HES-Income Eligible	\$ 4,217,953	\$ 4,187,832	\$ 3,106,721	\$ 11,512,506
Residential Behavior	\$ -	\$ 158,605	\$ 159,971	\$ 318,576
Subtotal: Residential EE Portfolio	\$ 10,824,431	\$ 10,108,502	\$ 9,156,712	\$ 30,089,644
COMMERCIAL & INDUSTRIAL				
C&I LOST OPPORTUNITY				
Energy Conscious Blueprint	\$ 4,685,543	\$ 2,148,136	\$ 1,761,799	\$ 8,595,478
Total - Lost Opportunity	\$ 4,685,543	\$ 2,148,136	\$ 1,761,799	\$ 8,595,478
C&I LARGE RETROFIT				
Energy Opportunities	\$ 4,366,196	\$ 1,221,221	\$ 1,155,623	\$ 6,743,040
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 727,122	\$ 707,922	\$ 517,112	\$ 1,952,155
Total - C&I Large Retrofit	\$ 5,093,317	\$ 1,929,143	\$ 1,672,735	\$ 8,695,195
Small Business	\$ 951,883	\$ 330,836	\$ 254,076	\$ 1,536,794
Subtotal: C&I EE Portfolio	\$ 10,730,743	\$ 4,408,115	\$ 3,688,609	\$ 18,827,467
OTHER - EDUCATION & ENGAGEMENT				
Educate the Public	\$ 123,642	\$ 76,089	\$ 76,089	\$ 275,820
Customer Engagement	\$ 232,000	\$ 100,000	\$ 100,000	\$ 432,000
Educate the Students	\$ 45,164	\$ 45,164	\$ 45,164	\$ 135,493
Educate the Workforce	\$ 36,774	\$ 67,473	\$ 67,473	\$ 171,719
Subtotal: Education & Engagement	\$ 437,581	\$ 288,726	\$ 288,726	\$ 1,015,032
OTHER - PROGRAMS/REQUIREMENTS				
Residential Loan Program (includes ECLF and 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
Subtotal: Programs/Requirements	\$ 228,428	\$ 156,292	\$ 211,292	\$ 596,012
OTHER - ADMINISTRATIVE & PLANNING				
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	\$ 200,000	\$ 200,000	\$ 200,000	\$ 600,000
Evaluation Administrator	\$ 21,931	\$ 21,931	\$ 21,931	\$ 65,793
Information Technology	\$ 140,726	\$ 140,589	\$ 140,590	\$ 421,904
Energy Efficiency Board Consultants	\$ 43,333	\$ 43,333	\$ 43,333	\$ 129,999
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 30,000
Performance Management Incentive (PMI)	\$ 1,027,445	\$ 702,267	\$ 629,534	\$ 2,359,246
Subtotal: Other - Administrative & Planning	\$ 1,713,626	\$ 1,419,903	\$ 1,347,172	\$ 4,480,701
TOTAL	\$ 23,934,809	\$ 16,381,537	\$ 14,692,511	\$ 55,008,857

Combined Natural Gas Table A2 (2020-2023)

**Table A2
EVERSOURCE CT GAS, CNG & SCG
2020 - 2023 Natural Gas Revenues**

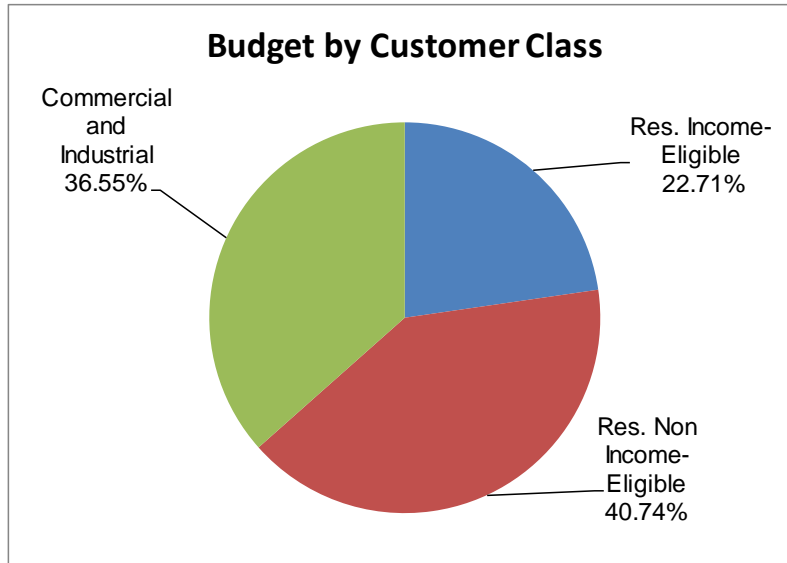
Natural Gas EE Revenues	2020		2020		2020		2021		2021		2021	
	Eversource CT Gas Revenues 12/31/2020	CNG Revenues 12/31/2020	SCG Revenues 12/31/2020	Combined Eversource CT Gas/CNG/SCG Total	Eversource CT Gas Revenues 03/01/2021	CNG Revenues 03/01/2021	SCG Revenues 03/01/2021	Combined Eversource CT Gas/CNG/SCG Total				
Conservation Adjustment Mechanism (CAM)	\$ 20,202,805	\$ 13,946,707	\$ 12,695,033	\$ 46,844,545	\$ 23,227,356	\$ 13,490,545	\$ 13,350,257	\$ 50,068,158				
Prior Period Over/(Under) Collections	\$ (884,020)	\$ (469,530)	\$ (278,081)	\$ (1,631,631)	\$ (3,319,814)	\$ (2,210,145)	\$ (1,755,578)	\$ (7,285,537)				
Prior Period Under/(Over) Budget	\$ 186,462	\$ 2,073,351	\$ 2,905,328	\$ 5,165,141	\$ 797,645	\$ 5,102,519	\$ 3,188,750	\$ 9,088,914				
Interest Due to Company/Other Revenues		\$ 189,328	\$ 222,594	\$ 411,922	\$ -	\$ 368,376	\$ 309,972	\$ 678,348				
Total Revenues	\$ 19,505,247	\$ 15,739,856	\$ 15,544,874	\$ 50,789,977	\$ 20,705,187	\$ 16,751,296	\$ 15,093,401	\$ 52,549,884				

Natural Gas EE Revenues	2022		2022		2022		2023		2023		2023	
	Eversource CT Gas Revenues 03/01/2021	CNG Revenues 03/01/2021	SCG Revenues 03/01/2021	Combined Eversource CT Gas/CNG/SCG Total	Eversource CT Gas Revenues 03/01/2021	CNG Revenues 03/01/2021	SCG Revenues 03/01/2021	Combined Eversource CT Gas/CNG/SCG Total				
Conservation Adjustment Mechanism (CAM)	\$ 23,570,105	\$ 16,322,487	\$ 14,498,605	\$ 54,391,198	\$ 23,934,809	\$ 16,381,537	\$ 14,692,511	\$ 55,008,857				
Total Revenues	\$ 23,570,105	\$ 16,322,487	\$ 14,498,605	\$ 54,391,198	\$ 23,934,809	\$ 16,381,537	\$ 14,692,511	\$ 55,008,857				

All Figures are net of GET. All Companies are decoupled.

Combined Natural Gas Table A1 Pie Chart (2021)

**Statewide 2021 Update Budget Analysis
Table A1 Pie Chart**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$10,932,720	20.80%	22.71%
Res. Non Income-Eligible	\$19,614,084	37.32%	40.74%
Residential Subtotal	\$30,546,804	58.13%	63.45%
Commercial and Industrial	\$17,598,734	33.49%	36.55%
C&I Subtotal	\$17,598,734	33.49%	36.55%
Residential and C&I Subtotal	\$48,145,538	91.62%	100.00%
Other Expenditures			
Other Expenditures	\$4,404,346	8.38%	
Other Expenditures Subtotal	\$4,404,346	8.38%	
TOTAL	\$52,549,884	100.00%	
ES CT Gas	\$20,705,187	39.40%	
CNG	\$16,751,296	31.88%	
SCG	\$15,093,401	28.72%	

Totals may vary due to rounding.

*Please see attached Budget Allocation Table.

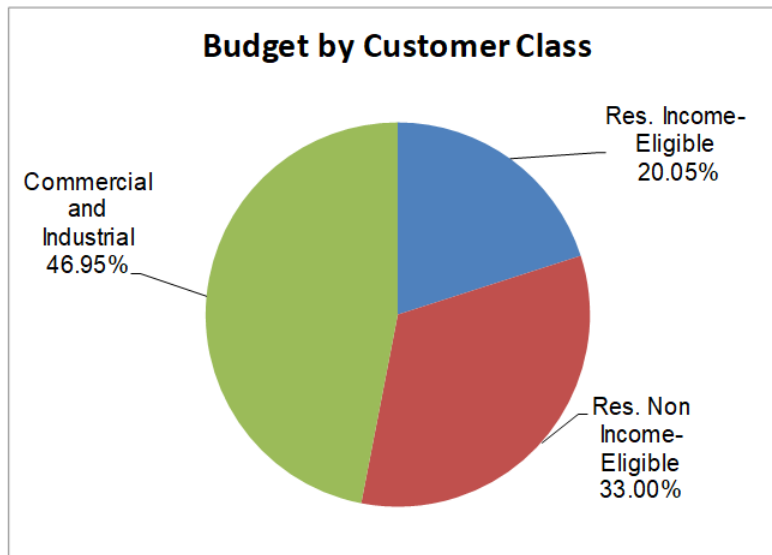
D.6. EVERSOURCE (NATURAL GAS) BUDGET AND SAVINGS TABLES**Table A – Eversource Natural Gas (2019-2023)**

Table A
Eversource CT Gas Service Company
2020-2023 Natural Gas Conservation Budget

Eversource CT Gas EE Budget	2019 Eversource CT Gas Actual Results 12/31/2019	2020 Eversource CT Gas Actual Results 12/31/2020	2021 Eversource CT Gas Proposed Budget 3/1/2021	2022 Eversource CT Gas Proposed Budget 3/1/2021	2023 Eversource CT Gas Proposed Budget 3/1/2021
RESIDENTIAL					
Residential New Construction	\$ 887,551	\$ 489,620	\$ 887,629	\$ 973,061	\$ 989,074
Home Energy Solutions - Core Services	\$ 2,572,719	\$ 2,893,620	\$ 1,949,441	\$ 2,140,527	\$ 2,175,751
HES - HVAC, Water Heaters	\$ 3,441,578	\$ 4,573,515	\$ 3,096,217	\$ 3,385,934	\$ 3,441,653
HES-Income Eligible	\$ 3,404,495	\$ 4,303,596	\$ 3,792,458	\$ 4,149,666	\$ 4,217,953
Residential Behavior	\$ 414,553	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$ 10,720,896	\$ 12,260,351	\$ 9,725,745	\$ 10,649,188	\$ 10,824,431
COMMERCIAL & INDUSTRIAL					
C&I LOST OPPORTUNITY					
Energy Conscious Blueprint	\$ 3,177,795	\$ 3,510,955	\$ 3,815,820	\$ 4,609,686	\$ 4,685,543
Total - Lost Opportunity	\$ 3,177,795	\$ 3,510,955	\$ 3,815,820	\$ 4,609,686	\$ 4,685,543
C&I LARGE RETROFIT					
Energy Opportunities	\$ 3,236,775	\$ 3,377,127	\$ 3,555,712	\$ 4,295,478	\$ 4,366,196
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 972,152	\$ 645,936	\$ 592,154	\$ 715,350	\$ 727,122
Total - C&I Large Retrofit	\$ 4,208,927	\$ 4,023,063	\$ 4,147,865	\$ 5,010,828	\$ 5,093,317
Small Business	\$ 220,886	\$ 125,273	\$ 775,196	\$ 936,472	\$ 951,883
Subtotal: C&I EE Portfolio	\$ 7,607,608	\$ 7,659,291	\$ 8,738,881	\$ 10,556,986	\$ 10,730,743
OTHER - EDUCATION & ENGAGEMENT					
Educate the Public	\$ 63,267	\$ 34,537	\$ 123,642	\$ 123,642	\$ 123,642
Customer Engagement	\$ 201,756	\$ 197,010	\$ 232,000	\$ 232,000	\$ 232,000
Educate the Students	\$ 27,256	\$ 33,239	\$ 45,164	\$ 45,164	\$ 45,164
Educate the Workforce	\$ 5,699	\$ 42,041	\$ 36,774	\$ 36,774	\$ 36,774
Subtotal: Education & Engagement	\$ 297,978	\$ 306,829	\$ 437,581	\$ 437,581	\$ 437,581
OTHER - PROGRAMS/REQUIREMENTS					
Residential Loan Program (includes ECLF and OBR)	\$ 80,075	\$ 99,172	\$ 84,523	\$ 84,523	\$ 84,523
C&I Financing Support	\$ 10,944	\$ -	\$ 93,905	\$ 93,905	\$ 93,905
Research, Development & Demonstration	\$ 15,367	\$ 15,680	\$ 50,000	\$ 50,000	\$ 50,000
Subtotal: Programs/Requirements	\$ 106,386	\$ 114,852	\$ 228,428	\$ 228,428	\$ 228,428
OTHER - ADMINISTRATIVE & PLANNING					
Administration	\$ 92,906	\$ 121,815	\$ 150,933	\$ 150,933	\$ 150,933
Marketing Plan	\$ 14,890	\$ 35,467	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 137,312	\$ 136,377	\$ 79,158	\$ 79,158	\$ 79,158
Evaluation Measurement & Verification	\$ 218,102	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Evaluation Administrator	\$ 21,008	\$ 25,798	\$ 21,931	\$ 21,931	\$ 21,931
Information Technology	\$ 143,627	\$ 122,356	\$ 140,726	\$ 140,726	\$ 140,726
Energy Efficiency Board Consultants	\$ 34,965	\$ 44,501	\$ 43,333	\$ 43,333	\$ 43,333
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
PMI	\$ 1,057,175	\$ 1,277,162	\$ 888,370	\$ 1,011,740	\$ 1,027,445
Subtotal: Other – Admin. & Planning	\$ 1,729,985	\$ 1,973,476	\$ 1,574,552	\$ 1,697,922	\$ 1,713,626
TOTAL	\$ 20,462,853	\$ 22,314,798	\$ 20,705,187	\$ 23,570,105	\$ 23,934,809

Table A Pie Chart – Eversource Natural Gas (2021)

**Eversource CT Gas
2021 Budget Analysis**



Customer Class	Budget*	% of Total Budget	% of Residential and C&I Budget
Res. Income-Eligible	\$3,834,720	18.52%	20.05%
Res. Non Income-Eligible	\$6,309,568	30.47%	33.00%
Residential Subtotal	\$10,144,288	48.99%	53.05%
Commercial and Industrial	\$8,976,447	43.35%	46.95%
C&I Subtotal	\$8,976,447	43.35%	46.95%
Residential and C&I Subtotal	\$19,120,736	92.35%	100.00%
Other Expenditures			
Other Expenditures	\$1,584,451	7.65%	
Other Expenditures Subtotal	\$1,584,451	7.65%	
TOTAL	\$20,705,187	100.00%	

Totals may vary due to rounding.

*Please see attached Budget Allocation Table.

Eversource Natural Gas Table A Budget Allocation (2019-2023)

**Eversource CT Gas 2019 - 2023
Table A Pie Sector Allocation**

Budget Allocation Table	Residential	C&I	Other
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	50%	50%	0%
Customer Engagement	80%	20%	0%
Educate the Students	80%	20%	0%
Educate the Workforce	50%	50%	0%
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
OTHER - LOAD MANAGEMENT			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
OTHER - ADMINISTRATIVE & PLANNING			
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 program's 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 – Eversource Natural Gas (2020)

2020 Eversource Gas	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
Retail Products								
New Construction	\$941	\$2,079	\$3,196	\$5,190	3.40	2.50	625	Homes
Home Energy Solutions	\$2,050	\$2,503	\$2,601	\$4,334	1.27	1.73	2,485	Homes
HVAC	\$3,301	\$8,331	\$5,766	\$9,352	1.75	1.12	5,062	Units
HES - Income Eligible	\$4,028	\$4,112	\$5,577	\$9,292	1.38	2.26	8,768	Homes
Subtotal: Residential EE Portfolio	\$10,321	\$17,024	\$17,140	\$28,167	1.66	1.65		
Commercial & Industrial								
Energy Conscious Blueprint	\$4,520	\$5,699	\$8,638	\$14,220	1.91	2.50	219	Projects
Energy Opportunities	\$4,214	\$12,486	\$8,907	\$14,252	2.11	1.14	90	Projects
BES	\$692	\$1,443	\$2,962	\$4,405	4.28	3.05	24	Projects
Small Business	\$822	\$1,646	\$1,466	\$2,450	1.78	1.49	169	Projects
Subtotal: C&I EE Portfolio	\$10,248	\$21,273	\$21,973	\$35,327	2.14	1.66		
Other								
Subtotal: Other	\$2,256	\$2,256						
TOTAL	\$22,825	\$40,553	\$39,113	\$63,494	1.71	1.57		

2020 Eversource Gas	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Cost Rate \$/ccf Annual	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
Residential													
Retail Products													
New Construction	159,796	3,254,374	1,446	\$5.89	\$0.289	\$651	\$32	16,443	334,875	\$57	\$3	1,183	24,084
Home Energy Solutions	129,990	2,622,212	1,223	\$15.77	\$0.782	\$1,676	\$83	13,376	269,826	\$153	\$8	962	19,406
HVAC	293,421	5,836,322	2,620	\$11.25	\$0.566	\$1,260	\$63	30,193	600,558	\$109	\$5	2,171	43,192
HES - Income Eligible	287,334	5,566,390	2,720	\$14.02	\$0.724	\$1,481	\$76	29,567	572,782	\$136	\$7	2,126	41,195
Subtotal: Residential EE Portfolio	870,541	17,279,299	8,009	\$11.86	\$0.597	\$1,289	\$65	89,579	1,778,040	\$115	\$6	6,443	127,877
Commercial & Industrial													
Energy Conscious Blueprint	574,061	8,906,396	3,529	\$7.87	\$0.508	\$1,281	\$83	59,071	916,468	\$77	\$5	4,248	64,505
Energy Opportunities	727,742	8,367,349	4,836	\$5.79	\$0.504	\$871	\$76	74,885	861,000	\$56	\$5	5,386	61,454
BES	379,323	2,195,906	1,104	\$1.82	\$0.315	\$627	\$108	39,032	225,959	\$18	\$3	2,807	15,326
Small Business	123,534	1,548,170	1,140	\$6.65	\$0.531	\$721	\$58	12,712	159,307	\$65	\$5	914	11,340
Subtotal: C&I EE Portfolio	1,804,659	21,017,821	10,609	\$5.68	\$0.488	\$966	\$83	185,699	2,162,734	\$55	\$5	13,356	152,625
Other													
Subtotal: Other													
TOTAL	2,675,200	38,297,120	18,618	\$8.53	\$0.596	\$1,226	\$86	275,278	3,940,774	\$83	\$6	19,798	280,502

Table B – Eversource Natural Gas (2021)

2021	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
Eversource Gas	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
Retail Products	-	-	-	-	-	-	-	-
New Construction	\$888	\$888	\$3,146	\$5,186	3.54	5.84	587	Homes
Home Energy Solutions	\$1,949	\$2,071	\$2,139	\$3,594	1.10	1.74	1,966	Homes
HVAC	\$3,096	\$8,412	\$5,956	\$9,713	1.92	1.15	8,688	Units
HES - Income Eligible	\$3,792	\$3,858	\$4,578	\$11,018	1.21	2.86	6,549	Homes
Subtotal: Residential EE Portfolio	\$9,726	\$15,229	\$15,818	\$29,511	1.63	1.94		
Commercial & Industrial								
Energy Conscious Blueprint	\$3,816	\$5,198	\$6,228	\$10,521	1.63	2.02	157	Projects
Energy Opportunities	\$3,556	\$8,007	\$5,213	\$8,493	1.47	1.06	65	Projects
BES	\$592	\$1,285	\$1,821	\$2,790	3.07	2.17	15	Projects
Small Business	\$775	\$1,294	\$897	\$1,523	1.16	1.18	106	Projects
Subtotal: C&I EE Portfolio	\$8,739	\$15,785	\$14,158	\$23,328	1.62	1.48		
Subtotal Other	\$2,241	\$2,241						
TOTAL	\$20,705	\$33,254	\$29,976	\$52,839	1.45	1.59		

2021	Gas Savings			Gas Cost Rates			
Eversource Gas	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
Residential							
Retail Products							
New Construction	149,278	3,290,606	1,350	\$5.95	\$0.270	\$657	\$30
Home Energy Solutions	108,228	2,181,110	1,025	\$18.01	\$0.894	\$1,903	\$94
HVAC	312,767	5,979,104	2,895	\$9.90	\$0.518	\$1,069	\$56
HES - Income Eligible	237,455	4,657,607	2,214	\$15.97	\$0.814	\$1,713	\$87
Subtotal: Residential EE Portfolio	807,728	16,108,427	7,484	\$12.04	\$0.604	\$1,299	\$65
Commercial & Industrial							
Energy Conscious Blueprint	419,599	6,736,885	2,385	\$9.09	\$0.566	\$1,600	\$100
Energy Opportunities	546,190	5,022,099	3,442	\$6.51	\$0.708	\$1,033	\$112
BES	286,727	1,440,982	577	\$2.07	\$0.411	\$1,026	\$204
Small Business	77,039	965,479	711	\$10.06	\$0.803	\$1,090	\$87
Subtotal: C&I EE Portfolio	1,329,555	14,165,445	7,115	\$6.57	\$0.617	\$1,228	\$115
Subtotal Other							
TOTAL	2,137,283	30,273,873	14,600	\$9.69	\$0.684	\$1,418	\$100

Table B – Eversource Natural Gas (2021) (continued)

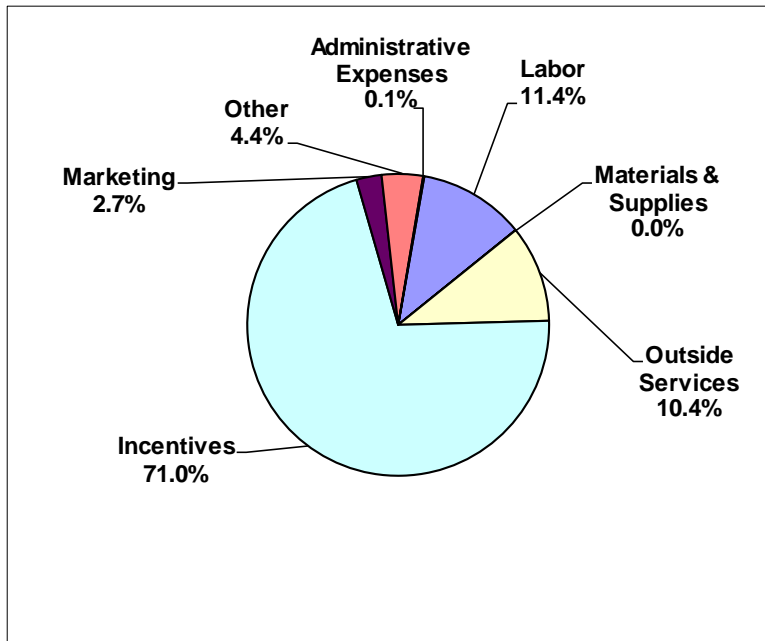
2021	Gas Savings			MMBtu Savings				Emissions Savings	
Eversource Gas	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential									
Retail Products									
New Construction	149,278	3,290,606	1,350	15,361	338,603	\$58	\$3	1,105	24,352
Home Energy Solutions	108,228	2,181,110	1,025	11,137	224,436	\$175	\$9	801	16,142
HVAC	312,767	5,979,104	2,895	32,184	615,250	\$96	\$5	2,315	44,249
HES - Income Eligible	237,455	4,657,607	2,214	24,434	479,268	\$155	\$8	1,757	34,469
Subtotal: Residential EE Portfolio	807,728	16,108,427	7,484	83,115	1,657,557	\$117	\$6	5,978	119,212
Commercial & Industrial									
Energy Conscious Blueprint	419,599	6,736,885	2,385	43,177	693,225	\$88	\$6	3,105	48,966
Energy Opportunities	546,190	5,022,099	3,442	56,203	516,774	\$63	\$7	4,042	36,917
BES	286,727	1,440,982	577	29,504	148,277	\$20	\$4	2,122	10,361
Small Business	77,039	965,479	711	7,927	99,348	\$98	\$8	570	7,072
Subtotal: C&I EE Portfolio	1,329,555	14,165,445	7,115	136,811	1,457,624	\$64	\$6	9,840	103,316
Subtotal Other									
TOTAL	2,137,283	30,273,873	14,600	219,926	3,115,181	\$94	\$7	15,817	222,528

Table C – Eversource CT Natural Gas (2021)**Table C: Eversource CT Gas 2021 EE Budget Details**

Eversource CT Gas EE BUDGET	Labor	Materials & Supplies	Outside Services	Contractor Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
RESIDENTIAL									
Residential New Construction	\$ 43,820	\$ 100	\$ 10,000	\$ -	\$ 802,708	\$ 26,000	\$ 2,000	\$ 3,000	\$ 887,629
HES - Core Services	\$ 38,204	\$ 500	\$ 260,000	\$ 16,000	\$1,052,737	\$ 170,000	\$ 7,000	\$ 5,000	\$ 1,949,441
HES - HVAC, Water Heaters	\$ 76,686	\$ 484	\$ 240,000	\$ -	\$2,757,947	\$ 20,000	\$ 100	\$ 1,000	\$ 3,096,217
HES-Income Eligible	\$ 442,789	\$ 500	\$ 80,000	\$ 25,000	\$3,080,169	\$ 150,000	\$ 6,000	\$ 8,000	\$ 3,792,458
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$1,001,499	\$ 1,584	\$ 590,000	\$ 41,000	\$7,693,562	\$ 366,000	\$ 15,100	\$ 17,000	\$ 9,725,745
COMMERCIAL & INDUSTRIAL									
C&I LOST OPPORTUNITY									
Energy Conscious Blueprint	\$ 131,696	\$ 500	\$ 400,000	\$ 22,956	\$3,218,669	\$ 40,000	\$ 1,000	\$ 1,000	\$ 3,815,820
Total - Lost Opportunity	\$ 131,696	\$ 500	\$ 400,000	\$ 22,956	\$,218,669	\$ 40,000	\$ 1,000	\$ 1,000	\$ 3,815,820
C&I LARGE RETROFIT									
Energy Opportunities	\$ 675,669	\$ 500	\$ 69,538	\$ 22,320	\$2,737,685	\$ 42,000	\$ 6,000	\$ 2,000	\$ 3,555,712
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 84,459	\$ 100	\$ 110,000	\$ 837	\$ 378,758	\$ 16,000	\$ 1,000	\$ 1,000	\$ 592,154
Total C&I - Large Retrofit	\$ 760,128	\$ 600	\$ 179,538	\$ 23,157	\$3,116,443	\$ 58,000	\$ 7,000	\$ 3,000	\$ 4,147,865
Small Business	\$ 59,939	\$ 500	\$ 8,000	\$ -	\$ 665,757	\$ 38,000	\$ 1,000	\$ 2,000	\$ 775,196
Subtotal: C&I EE Portfolio	\$ 951,762	\$ 1,600	\$ 587,538	\$ 46,113	\$7,000,868	\$ 136,000	\$ 9,000	\$ 6,000	\$ 8,738,881
OTHER - EDUCATION & ENGAGEMENT									
Educate the Public	\$ 11,082	\$ 1,000	\$ 95,960	\$ -	\$ -	\$ 12,000	\$ 2,100	\$ 1,500	\$ 123,642
Customer Engagement	\$ 50,237	\$ -	\$ 170,163	\$ 11,600	\$ -	\$ -	\$ -	\$ -	\$ 232,000
Educate the Students	\$ 6,722	\$ 500	\$ 32,284	\$ -	\$ -	\$ 4,159	\$ 500	\$ 1,000	\$ 45,164
Educate the Workforce	\$ 6,722	\$ -	\$ 30,053	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 36,774
Subtotal: Education & Engagement	\$ 74,762	\$ 1,500	\$ 328,460	\$ 11,600	\$ -	\$ 16,159	\$ 2,600	\$ 2,500	\$ 437,581
OTHER - PROGRAMS/REQUIREMENTS									
Residential Loan Program (includes ECLF and OBR)	\$ -	\$ -	\$ 84,523	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84,523
C&I Financing Support	\$ -	\$ -	\$ 93,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 93,905
Research, Development and Demonstration	\$ 14,420	\$ -	\$ 35,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Subtotal: Programs & Requirements	\$ 14,420	\$ -	\$ 214,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 228,428
OTHER - ADMINISTRATIVE & PLANNING									
Administration	\$ 75,750	\$ -	\$ 60,183	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 150,933
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,100	\$ -	\$ -	\$ 40,100
Planning	\$ 73,991	\$ -	\$ -	\$ 5,167	\$ -	\$ -	\$ -	\$ -	\$ 79,158
Evaluation Measurement and Verification	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Evaluation Administrator	\$ -	\$ -	\$ 21,931	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,931
Information Technology	\$ 25,842	\$ -	\$ 89,551	\$ 25,333	\$ -	\$ -	\$ -	\$ -	\$ 140,726
Energy Efficiency Board Consultants	\$ -	\$ -	\$ 43,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,333
Audits - Financial & Operational	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
PMI	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 888,370	\$ -	\$ 888,370
Subtotal: Other	\$ 175,583	\$ -	\$ 424,998	\$ 45,500	\$ -	\$ 40,100	\$ 888,370	\$ -	\$ 1,574,552
TOTAL BUDGET	\$2,218,026	\$ 4,684	\$2,145,004	\$ 144,213	\$14,694,430	\$ 558,259	\$ 915,070	\$ 25,500	\$ 0,705,187

Table C Pie Chart – Eversource CT Natural Gas (2021)

**EVERSOURCE CT GAS
2021 Gas Conservation
Budget By Expense Class**



Expense Classes	Budget	% of Budget
Labor	\$ 2,362,239	11.4%
Materials & Supplies	\$ 4,684	0.0%
Outside Services	\$ 2,145,004	10.4%
Incentives	\$ 4,694,430	71.0%
Marketing	\$ 558,259	2.7%
Other	\$ 915,070	4.4%
Administrative Expenses	\$ <u>25,500</u>	<u>0.1%</u>
Total	\$20,705,187	100.0%

Table D – Eversource CT Natural Gas Historical and Projected Expenditures (2012-2023)**Table D: Eversource CT Gas – Expenditure (2012-2023)
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual
RESIDENTIAL						
Residential New Construction	\$ 267,891	\$ 193,667	\$ 677,845	\$ 764,790	\$ 692,482	\$ 881,482
HES- Core Services (2016-2021)	1,637,539	1,724,523	\$ 4,493,416	\$ 3,432,631	\$ 2,952,063	\$ 3,379,814
HES - HVAC, Water Heaters (2016-2023)	\$ -	\$ -	\$ -	\$ -	\$ 1,668,456	\$ 1,483,857
HES-Income Eligible	1,683,995	\$3,138,425	\$ 5,614,632	\$ 4,650,418	\$ 4,926,003	\$ 4,617,168
Water Heating	\$ 55,706	\$ 41,069	\$ 329,133	\$ 523,846	\$ -	\$ -
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ 183,310	\$ 614,173
Subtotal: Residential EE Portfolio	3,645,131	5,097,684	\$ 1,115,026	\$ 9,371,685	10,422,314	10,976,494
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	1,247,518	1,152,025	\$ 3,034,664	\$ 2,634,533	\$ 2,080,768	\$ 1,603,199
Total - Lost Opportunity	\$1,247,518	\$1,152,025	\$ 3,034,664	\$ 2,634,533	\$ 2,080,768	\$ 1,603,199
C&I LARGE RETROFIT						
Energy Opportunities	1,133,274	\$ 870,585	\$ 2,053,847	\$ 1,668,217	\$ 4,135,899	\$ 3,555,604
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 55,381	\$ 94,554	\$ 299,105	\$ 219,014	\$ 678,102	\$ 553,690
Total - C&I Large Retrofit	1,188,655	\$ 965,139	\$ 2,352,952	\$ 1,887,231	\$ 4,814,001	\$ 4,109,295
Small Business	\$ 65,653	\$ 422,844	\$ 218,468	\$ 329,075	\$ 381,268	\$ 848,654
Subtotal: C&I EE Portfolio	2,501,826	2,540,008	\$ 5,606,084	\$ 4,850,839	\$ 7,276,037	\$ 6,561,148
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$ -	\$ -	\$ -	\$ -	\$ 214,403	\$ 145,069
Customer Engagement	\$ -	\$ -	\$ 284,008	\$ 282,000	\$ 229,036	\$ 231,942
Educate the Students	\$ -	\$ -	\$ -	\$ -	\$ 50,119	\$ 26,077
Educate the Workforce	\$ -	\$ -	\$ -	\$ -	\$ 26,313	\$ 18,686
SmartLiving Center®-Museums Partnership	\$ -	\$ -	\$ 165,067	\$ 83,670	\$ -	\$ -
Clean Energy Communities/Behavior Pilot	\$ -	\$ -	\$ 49,106	\$ 184,917	\$ -	\$ -
eesmarts/K-12	\$ -	\$ -	\$ 8,790	\$ 96,470	\$ -	\$ -
Subtotal: Education & Engagement	\$ -	\$ -	\$ 506,971	\$ 647,057	\$ 519,871	\$ 421,774
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (includes ECLF and OBR)	\$ 70,297	\$ 70,112	\$ 69,591	\$ 69,012	\$ 174,448	\$ 84,550
C&I Financing Support (2016-2018)	\$ -	\$ -	\$ -	\$ -	\$ 12,879	\$ 0
Research, Development and Demonstration	\$ -	\$ -	\$ -	\$ 19,154	\$ 20,487	\$ 18,501
Institute for Sustainable Energy (moved to Educate the 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	\$ -	\$ -
Subtotal: Programs/Requirements	\$ 70,297	\$ 70,406	\$ 141,749	\$ 195,940	\$ 207,814	\$ 103,051
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$ -	\$ 51,486	\$ 94,752	\$ 119,374	\$ 37,023	\$ 52,134
Marketing Plan	\$ -	\$ 8	\$ 65,930	\$ 100,283	\$ 95,028	\$ 37,911
Planning	\$ 67,396	\$ 103,533	\$ 147,774	\$ 111,082	\$ 94,234	\$ 61,481
Evaluation Measurement and Verification	\$ 126,001	\$ (17,049)	\$ 169,462	\$ 181,443	\$ 120,010	\$ 200,000
Evaluation Administrator	\$ -	\$ -	\$ 34,068	\$ 31,472	\$ 39,278	\$ 27,348
Information Technology	\$ 39,953	\$ 51,196	\$ 72,683	\$ 126,557	\$ 191,801	\$ 68,304
Energy Efficiency Board Consultants	\$ 18,161	\$ 38,924	\$ 77,207	\$ 75,225	\$ 70,328	\$ 47,599
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,458
Performance Management Incentive (PMI)	\$ -	\$ 605,725	\$ 920,771	\$ 942,177	\$ 587,469	\$ 1,123,213
Subtotal: Other – Admin. & Planning	\$ 251,511	\$ 833,824	\$ 1,582,648	\$ 1,687,612	\$ 2,235,170	\$ 1,623,448
TOTAL	\$ 6,468,765	\$ 8,541,922	\$ 18,952,478	\$ 16,753,133	\$ 19,661,206	\$ 19,685,915

Table D – Eversource CT Natural Gas Historical and Projected Expenditures (2012-2023)(continued)

**Table D: Eversource CT Gas – Expenditure (2012-2023)
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2018 Actual	2019 Actual	2020 Actual	2021 Budget	2022 Budget	2023 Budget
RESIDENTIAL						
Residential New Construction	\$ 918,565	\$ 887,551	\$ 489,620	\$ 887,629	\$ 973,061	\$ 989,074
HES- Core Services (2016-2021)	\$1,843,187	\$ 2,572,719	\$ 2,893,620	\$ 1,949,441	\$ 2,140,527	\$ 2,175,751
HES- HVAC, Water Heaters (2016-2023)	\$2,938,795	\$ 3,441,578	\$ 4,573,515	\$ 3,096,217	\$ 3,385,934	\$ 3,441,653
HES-Income Eligible	\$4,400,007	\$ 3,404,495	\$ 4,303,596	\$ 3,792,458	\$ 4,149,666	\$ 4,217,953
Water Heating	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Behavior	\$ 167,458	\$ 414,553	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$10,268,012	\$10,720,896	12,260,351	\$ 9,725,745	10,649,188	\$10,824,431
COMMERCIAL & INDUSTRIAL						
C&I LOST OPPORTUNITY						
Energy Conscious Blueprint	\$ 1,831,447	\$ 3,177,795	\$ 3,510,955	\$ 3,815,820	\$ 4,609,686	\$ 4,685,543
Total - Lost Opportunity	\$ 1,831,447	\$ 3,177,795	\$ 3,510,955	\$ 3,815,820	\$ 4,609,686	\$ 4,685,543
C&I LARGE RETROFIT						
Energy Opportunities	\$ 4,097,336	\$ 3,236,775	\$ 3,377,127	\$ 3,555,712	\$ 4,295,478	\$ 4,366,196
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 569,494	\$ 972,152	\$ 645,936	\$ 592,154	\$ 715,350	\$ 727,122
Total - C&I Large Retrofit	\$ 4,666,830	\$ 4,208,927	\$ 4,023,063	\$ 4,147,865	\$ 5,010,828	\$ 5,093,317
Small Business	\$ 247,416	\$ 220,886	\$ 125,273	\$ 775,196	\$ 936,472	\$ 951,883
Subtotal: C&I EE Portfolio	\$ 6,745,693	\$ 7,607,608	\$ 7,659,291	\$ 8,738,881	\$10,556,986	\$10,730,743
OTHER - EDUCATION & ENGAGEMENT						
Educate the Public	\$ 62,878	\$ 63,267	\$ 34,537	\$ 123,642	\$ 123,642	\$ 123,642
Customer Engagement	\$ 193,660	\$ 201,756	\$ 197,010	\$ 232,000	\$ 232,000	\$ 232,000
Educate the Students	\$ 41,953	\$ 27,256	\$ 33,239	\$ 45,164	\$ 45,164	\$ 45,164
Educate the Workforce	\$ 9,314	\$ 5,699	\$ 42,041	\$ 36,774	\$ 36,774	\$ 36,774
SmartLiving Center®-Museums Partnership	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities/Behavior Pilot	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
eesmarts/K-12	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Education & Engagement	\$ 307,805	\$ 297,978	\$ 306,829	\$ 437,581	\$ 437,581	\$ 437,581
OTHER - PROGRAMS/REQUIREMENTS						
Residential Loan Program (includes ECLF and OBR)	\$ 84,550	\$ 80,075	\$ 99,172	\$ 84,523	\$ 84,523	\$ 84,523
C&I Financing Support (2016-2018)	\$ -	\$ 10,944	\$ -	\$ 93,905	\$ 93,905	\$ 93,905
Research, Development and Demonstration	\$ 34,459	\$ 15,367	\$ 15,680	\$ 50,000	\$ 50,000	\$ 50,000
Institute for Sustainable Energy (moved to Educate the Workforce)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager - Lead By Example	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
EE Loan Defaults	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Programs/Requirements	\$ 119,009	\$ 106,386	\$ 114,852	\$ 228,428	\$ 228,428	\$ 228,428
OTHER - ADMINISTRATIVE & PLANNING						
Administration	\$ 133,366	\$ 92,906	\$ 121,815	\$ 150,933	\$ 150,933	\$ 150,933
Marketing Plan	\$ 22,597	\$ 14,890	\$ 35,467	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 123,125	\$ 137,312	\$ 136,377	\$ 79,158	\$ 79,158	\$ 79,158
Evaluation Measurement and Verification	\$ 145,595	\$ 218,102	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000
Evaluation Administrator	\$ 19,902	\$ 21,008	\$ 25,798	\$ 21,931	\$ 21,931	\$ 21,931
Information Technology	\$ 148,381	\$ 143,627	\$ 122,356	\$ 140,726	\$ 140,726	\$ 140,726
Energy Efficiency Board Consultants	\$ 33,163	\$ 34,965	\$ 44,501	\$ 43,333	\$ 43,333	\$ 43,333
Audits - Financial and Operational	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000
PMI	\$ 1,088,866	\$ 1,057,175	\$ 1,277,162	\$ 888,370	\$ 1,011,740	\$ 1,027,445
Subtotal: Other – Admin. & Planning	\$ 1,724,995	\$ 1,729,985	\$ 1,973,476	\$ 1,574,552	\$ 1,697,922	\$ 1,713,626
TOTAL	\$19,165,514	\$20,462,853	\$22,314,798	\$20,705,187	\$23,570,105	\$23,934,809

Table D1 – Eversource CT Natural Gas Annual Savings CCF (2012-2021)

**Table D1
Eversource CT Gas – Annual Savings (CCF)
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goals
RESIDENTIAL										
Residential New Construction	38,642	53,957	89,997	136,229	107,504	124,495	141,403	179,078	103,785	149,278
HES - Core Services (2016-2021)	282,453	238,395	303,919	158,468	232,197	325,962	187,700	275,034	239,628	108,228
HES- HVAC, Water Heaters (2016-2021)	-	-	-	-	242,925	267,816	413,231	345,175	509,323	312,767
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	-	-	-	-	-	-
HES - Total	282,453	306,535	536,304	393,598	475,122	593,778	600,931	620,209	748,951	420,995
HES-Income Eligible	248,413	415,930	593,667	420,481	412,516	416,211	369,070	273,617	220,597	237,455
Water Heating	6,129	2,812	49,272	70,702	-	-	-	-	-	-
Residential Behavior	-	-	-	-	-	321,474	47,498	93,782	-	-
Subtotal: Residential EE Portfolio	575,637	779,234	1,269,239	1,021,010	995,142	1,455,958	1,158,902	1,166,686	1,073,333	807,728
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	327,306	259,919	505,346	774,336	458,721	324,249	344,946	502,704	617,984	419,599
Total - Lost Opportunity	327,306	259,919	505,346	774,336	458,721	324,249	344,946	502,704	617,984	419,599
C&I LARGE RETROFIT										
Energy Opportunities	255,394	481,474	614,294	459,661	826,143	859,518	862,082	747,875	449,859	546,190
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	52,488	53,261	164,777	192,358	562,290	563,752	405,861	472,544	329,092	286,727
Total - C&I Large Retrofit	307,882	534,735	779,072	652,019	1,388,433	1,423,270	1,267,943	1,220,419	778,952	832,917
Small Business	23,405	72,422	57,987	53,878	66,201	95,808	104,112	53,932	3,973	77,039
Subtotal: C&I EE Portfolio	658,593	867,076	1,342,405	1,480,233	1,913,355	1,843,327	1,717,001	1,777,055	1,400,909	1,329,555
TOTAL	1,234,230	1,646,309	2,611,644	2,501,243	2,908,497	3,299,285	2,875,903	2,943,741	2,474,242	2,137,283

Table D2 – Eversource CT Natural Gas Lifetime Savings CCF (2012-2021)

**Table D2
Eversource CT Gas – Lifetime Savings (CCF) (2012-2021)
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Budget
RESIDENTIAL										
Residential New Construction	952,273	1,171,781	2,045,134	3,271,203	2,657,738	2,904,240	3,247,525	4,289,703	2,436,384	3,290,606
HES- Core Services (2016-2021)	4,870,250	4,136,193	5,536,786	2,997,099	4,397,581	6,073,461	3,560,522	5,187,631	4,385,006	2,181,110
HES - HVAC, Water Heaters (2016-2021)	-	-	-	-	4,845,878	5,355,264	8,262,599	6,903,273	9,123,944	5,979,104
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	-	-	-	-	-	-
HES - Total	4,870,250	5,479,448	10,334,310	7,848,529	9,243,459	11,428,725	11,823,121	12,090,904	13,508,950	8,160,214
HES-Income Eligible	3,750,072	6,590,419	11,276,075	8,697,544	7,535,882	8,142,754	7,536,237	5,184,877	4,375,975	4,657,607
Water Heating	84,305	56,244	944,742	1,329,986	-	-	-	-	-	-
Residential Behavior	-	-	-	-	-	861,903	122,689	242,243	-	-
Subtotal: Residential EE Portfolio	9,656,900	13,297,892	24,600,260	21,147,262	19,437,079	23,337,622	22,729,572	21,807,727	20,321,310	16,108,427
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	5,074,442	4,012,514	7,665,291	14,168,474	6,862,601	4,932,458	5,016,971	7,603,047	8,692,263	6,736,885
Total - Lost Opportunity	5,074,442	4,012,514	7,665,291	14,168,474	6,862,601	4,932,458	5,016,971	7,603,047	8,692,263	6,736,885
C&I LARGE RETROFIT										
Energy Opportunities	3,017,300	5,870,925	7,136,800	5,687,189	8,948,254	9,274,301	8,677,066	7,417,585	4,192,805	5,022,099
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	369,200	398,693	958,524	1,120,186	3,456,389	3,428,408	2,301,322	3,500,467	2,471,981	1,440,982
Total - C&I Large Retrofit	3,386,500	6,269,618	8,095,324	6,807,375	12,404,643	12,702,709	10,978,388	10,918,052	6,664,786	6,463,081
Small Business	290,172	835,602	693,581	738,098	771,880	1,335,130	1,273,289	733,850	46,418	965,479
Subtotal: C&I EE Portfolio	8,751,114	11,117,734	16,454,196	21,713,947	20,039,124	18,970,297	17,268,648	19,254,949	15,403,467	14,165,445
TOTAL	18,408,014	24,415,626	41,054,456	42,861,209	39,476,203	42,307,919	39,998,220	41,062,676	35,724,776	30,273,873

Table D3 – Eversource Natural Gas Cost per Annual Savings CCF (2012-2021)

**Table D3
Eversource CT Gas - Cost per Annual Savings (CCF) (2012-2021)
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Budget
RESIDENTIAL										
Residential New Construction	\$6.933	\$3.589	\$7.532	\$5.614	\$6.441	\$7.080	\$6.496	\$4.956	\$4.718	\$5.946
HES - Core Services (2016-2021)	\$5.798	\$5.626	\$8.378	\$8.721	\$6.213	\$5.692	\$3.067	\$4.148	\$3.864	\$4.631
HES - HVAC, Water Heaters (2016-2021)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Insulation Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HES Early Retirement Furnace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Res High-Eff Natural Gas Furnace Replace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Window Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HES - Total	\$5.798	\$5.626	\$8.378	\$8.721	\$9.725	\$8.191	\$7.958	\$9.697	\$9.970	\$11.985
HES-Income Eligible	\$6.779	\$7.546	\$9.458	\$11.060	\$11.941	\$11.093	\$11.922	\$12.443	\$19.509	\$15.971
Water Heating	\$9.089	\$14.605	\$6.680	\$7.409	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$6.332	\$6.542	\$8.757	\$9.179	\$10.473	\$7.539	\$8.860	\$9.189	\$11.423	\$12.041
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$3.811	\$4.432	\$6.005	\$3.402	\$4.536	\$4.944	\$5.309	\$6.321	\$5.681	\$9.094
Total - Lost Opportunity	\$3.811	\$4.432	\$6.005	\$3.402	\$4.536	\$4.944	\$5.309	\$6.321	\$5.681	\$9.094
C&I LARGE RETROFIT										
Energy Opportunities	\$4.437	\$1.808	\$3.343	\$3.629	\$5.006	\$4.137	\$4.753	\$4.328	\$7.507	\$6.510
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$1.055	\$1.775	\$1.815	\$1.139	\$1.206	\$0.982	\$1.403	\$2.057	\$1.963	\$2.065
Total - C&I Large Retrofit	\$3.861	\$1.805	\$3.020	\$2.894	\$3.467	\$2.887	\$3.681	\$3.449	\$5.165	\$4.980
Small Business	\$2.805	\$5.839	\$3.768	\$6.108	\$5.759	\$8.858	\$2.376	\$4.096	\$31.531	\$10.062
Subtotal: C&I EE Portfolio	\$3.799	\$2.929	\$4.176	\$3.277	\$3.803	\$3.559	\$3.929	\$4.281	\$5.467	\$6.573
TOTAL	\$5.241	\$5.189	\$7.257	\$6.698	\$6.760	\$5.967	\$6.664	\$6.951	\$9.019	\$9.688

Table D4 – Eversource Natural Gas Cost per Lifetime Savings CCF (2012-2021)

**Table D4
Eversource CT Gas - Cost per Lifetime Savings (CCF) (2012-2021)**

Natural Gas Conservation Plan Actual/Budget

Natural Gas EE Actual/Budget	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Budget

RESIDENTIAL

Residential New Construction	\$0.281	\$0.165	\$0.331	\$0.234	\$0.261	\$0.304	\$0.283	\$0.207	\$0.201	\$0.270
HES - Core Services (2016-2021)	\$0.336	\$0.315	\$0.435	\$0.437	\$0.319	\$0.296	\$0.156	\$0.213	\$0.214	\$0.239
HES - HVAC, Water Heaters (2016-2021)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Insulation Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HES Early Retirement Furnace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Res High-Eff Natural Gas Furnace Replace Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Window Rebate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
HES - Total	\$0.336	\$0.315	\$0.435	\$0.437	\$0.500	\$0.426	\$0.404	\$0.497	\$0.553	\$0.618
HES-Income Eligible	\$0.449	\$0.476	\$0.498	\$0.535	\$0.654	\$0.567	\$0.584	\$0.657	\$0.983	\$0.814
Water Heating	\$0.661	\$0.730	\$0.348	\$0.394	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Residential EE Portfolio	\$0.377	\$0.383	\$0.452	\$0.443	\$0.536	\$0.470	\$0.452	\$0.492	\$0.603	\$0.604

COMMERCIAL & INDUSTRIAL

C&I LOST OPPORTUNITY

Energy Conscious Blueprint	\$0.246	\$0.287	\$0.396	\$0.186	\$0.303	\$0.325	\$0.365	\$0.418	\$0.404	\$0.566
Total - Lost Opportunity	\$0.246	\$0.287	\$0.396	\$0.186	\$0.303	\$0.325	\$0.365	\$0.418	\$0.404	\$0.566

C&I LARGE RETROFIT

Energy Opportunities	\$0.376	\$0.148	\$0.288	\$0.293	\$0.462	\$0.383	\$0.211	\$0.428	\$0.837	\$0.760
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$0.150	\$0.237	\$0.312	\$0.196	\$0.196	\$0.162	\$0.247	\$0.278	\$0.261	\$0.411
Total - C&I Large Retrofit	\$0.351	\$0.154	\$0.291	\$0.277	\$0.388	\$0.323	\$0.425	\$0.386	\$0.604	\$0.642
Small Business	\$0.226	\$0.506	\$0.315	\$0.446	\$0.494	\$0.636	\$0.194	\$0.301	\$2.699	\$0.803
Subtotal: C&I EE Portfolio	\$0.286	\$0.228	\$0.341	\$0.223	\$0.363	\$0.346	\$0.391	\$0.395	\$0.497	\$0.617
TOTAL	\$0.351	\$0.350	\$0.462	\$0.391	\$0.498	\$0.465	\$0.479	\$0.498	\$0.625	\$0.684

Table D5 – Eversource Natural Gas Units (2012-2021)

**Table D5
Eversource CT Gas - Units
Natural Gas Conservation Plan Actual/Budget**

Natural Gas EE Actual/Budget	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Budget
RESIDENTIAL												
Residential New Construction	206	235	356	634	792	138	202	1,058	736	796	283	587
HES - Core Services (2016-2021)	2,768	1,811	3,918	2,869	3,048	1,613	2,141	4,973	2,212	4,224	4,149	1,966
HES - HVAC, Water Heaters (2016-2021)	-	-	-	-	-	-	3,350	3,393	4,783	5,406	22,633	8,688
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	-	-	-	-	-	-
HES - Total	2,768	1,811	3,918	3,507	5,638	4,363	5,491	8,366	6,995	9,630	26,782	10,654
HES-Income Eligible	2,497	2,347	1,579	2,052	4,070	2,978	2,205	8,590	4,036	3,808	5,485	6,549
Water Heating	179	128	112	54	752	1,084	-	-	-	-	-	-
Residential Behavior	-	-	-	-	-	-	-	95,000	29,750	59,270	-	-
Subtotal: Residential EE Portfolio	5,650	4,521	5,965	6,247	11,252	8,563	7,898	113,014	41,517	73,504	32,550	17,790
COMMERCIAL & INDUSTRIAL												
C&I LOST OPPORTUNITY												
Energy Conscious Blueprint	64	85	92	136	153	150	172	192	153	205	292	157
Total - Lost Opportunity	64	85	92	136	153	150	172	192	153	205	292	157
C&I LARGE RETROFIT												
Energy Opportunities	28	42	50	42	55	49	61	55	49	59	121	65
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	3	1	5	4	8	11	23	25	23	29	26	15
Total - C&I Large Retrofit	31	43	55	46	63	60	84	80	72	88	147	80
Small Business	-	-	20	50	62	58	50	53	64	78	39	106
Subtotal: C&I EE Portfolio	95	128	167	232	278	268	306	325	289	371	478	342
TOTAL	5,745	4,649	6,132	6,479	11,530	8,831	8,204	113,339	41,806	73,875	33,028	18,133

Eversource Natural Gas PMI (2021)

Eversource CT Gas Company

2021 Management Incentive Performance Indicators and Incentive Matrix

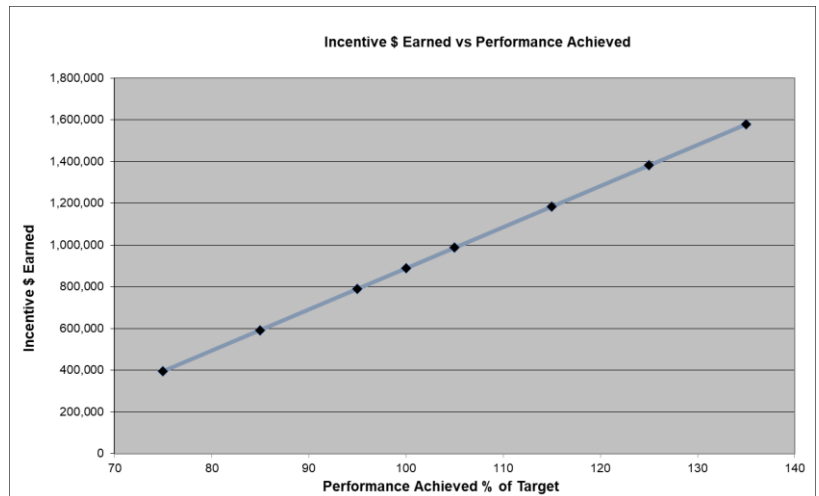
Eversource CT Gas and the EEB recognize that having clear indicators and metrics of performance are helpful in delivering quality programs to Connecticut consumers. The following is a table of performance and incentive metrics developed by the Companies with input from the EEB, the EEB's consultants and DEEP. These performance and incentive metrics apply to the programs delineated in the 2019-2021 Plan. The projected Eversource CT Gas Performance Incentive is **\$888,370** and is based on achieving **100%** of all performance targets and earning an incentive of **4.5%** of the total EE program budget of **\$19,741,553** 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%	\$394,831
85	3%	\$592,247
95	4%	\$789,662
100	4.5%	\$888,370
105	5%	\$987,078
115	6%	\$1,184,493
125	7%	\$1,381,909
135	8%	\$1,579,324

Maximum Budget \$19,741,553

Goals will be prorated based on actual over/under spend of budget.



Eversource Natural Gas PMI (2021) (continued)

SECTOR		Performance Indicators			Incentive Metrics			
Program		Program Name	LT-CCF	% (1)	Incentive Metric	Target Goal	Weight	Incentive
RESIDENTIAL								
Residential Programs (Sector Level) Sector Budget	\$9,725,745				Sum of Gas System Benefit from Residential programs	Gas System Benefit from Residential programs	0.1925	\$171,011
		New Construction	3,290,606	20.43%				
		Home Energy Solutions	2,181,110	13.54%				
		HVAC	5,979,104	37.12%				
		HES - Income Eligible	4,657,607	28.91%				
		<u>Behavior</u>	-	0.00%				
		Total	16,108,427					
		Savings Rate	\$0.9820	/ CCF				
		Savings	\$15,818,331					
		(1) percent of target goal						
Net Residential Gas Benefit:					\$6,092,586	0.1925	\$171,011	
Home Energy Solutions	\$1,949,441	Achieve CCF savings per single-family home. Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0% (156.60*102%).			CCF/home	Achieve 159.73 CCF savings/ single-family home	0.0600	\$53,302
HES-Income Eligible	\$3,792,458	Annual CCF savings			Annual CCF Savings	237,455	0.0300	\$26,651

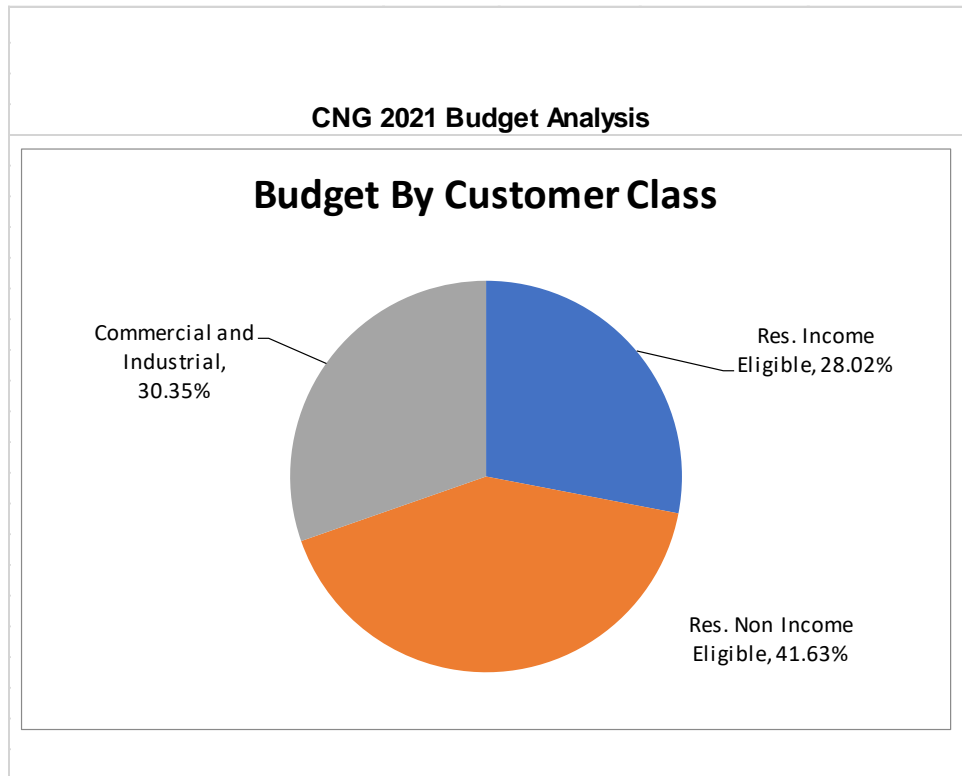
Eversource Natural Gas PMI (2021) (continued)

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	\$8,738,881	Energy Conscious Blueprint	6,736,885	47.56%	Total Gas System Benefit from C&I programs	Gas System Benefit from C&I programs \$14,158,002	0.2075	\$184,337
		Energy Opportunities	5,022,099	35.45%				
		Business and Energy Sustainability	1,440,982	10.17%				
		Small Business	965,479	6.82%				
		Total	14,165,445					
		Savings Rate	\$0.9995 / CCF					
		Savings	\$14,158,002					
		(1) percent of target goal						
Net C&I Gas System Benefit:					\$5,419,121	0.2075	\$184,337	
Small Business	\$775,196	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 2020 Actual Results plus 5% (65%+5%).			% of Gas Projects	70% of signed projects	0.0500	\$44,418
Energy Conscious Blueprint / Energy Opportunities	\$3,815,820	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 2020 Actual Results plus 5% (31%+5%).			% of Gas Projects	36% of signed projects	0.0500	\$44,418
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	\$8,884
Total Incentives							1.00000	\$888,370

D.7. CONNECTICUT NATURAL GAS BUDGET AND SAVINGS TABLES**Table A – Connecticut Natural Gas (2019-2023)**

Natural Gas EE Budget	12/31/2019 2019 CNG Actual Results	12/31/2020 2020 CNG Actual Results	3/1/2021 2021 CNG Budget Update	3/1/2021 2022 CNG Budget Update	3/1/2021 2023 CNG Budget Update
RESIDENTIAL					
Residential New Construction	\$ 345,274	\$ 470,451	\$ 739,127	\$ 718,491	\$ 721,424
Home Energy Solutions (HES)	\$ 1,652,699	\$ 2,497,610	\$ 2,842,878	\$ 3,085,781	\$ 3,098,381
HVAC/Water Heating	\$ 2,571,973	\$ 2,683,072	\$ 2,321,127	\$ 1,934,362	\$ 1,942,260
HES-Income Eligible	\$ 4,515,924	\$ 96,254	\$ 4,288,661	\$ 4,173,345	\$ 4,187,832
Residential Behavior	\$ 29,744	\$ 151,126	\$ 162,491	\$ 157,960	\$ 158,605
Subtotal: Residential EE Portfolio	\$ 9,115,614	\$ 5,898,513	\$ 10,354,285	\$ 10,069,940	\$ 10,108,502
COMMERCIAL & INDUSTRIAL					
C&I LOST OPPORTUNITY					
Energy Conscious Blueprint	\$ 1,418,405	\$ 4,145,798	\$ 2,200,847	\$ 2,139,401	\$ 2,148,136
Total - Lost Opportunity	\$ 1,418,405	\$ 4,145,798	\$ 2,200,847	\$ 2,139,401	\$ 2,148,136
C&I LARGE RETROFIT					
Energy Opportunities	\$ 1,244,788	\$ 813,249	\$ 1,251,158	\$ 1,216,319	\$ 1,221,221
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 403,019	\$ 418,511	\$ 725,292	\$ 705,043	\$ 707,922
Total - C&I Large Retrofit	\$ 1,647,807	\$ 1,231,760	\$ 1,976,450	\$ 1,921,362	\$ 1,929,143
Small Business	\$ 252,653	\$ 118,716	\$ 338,954	\$ 329,491	\$ 330,836
Subtotal: C&I EE Portfolio	\$ 3,318,865	\$ 5,496,274	\$ 4,516,252	\$ 4,390,253	\$ 4,408,115
OTHER - EDUCATION					
Educate the Public	\$ 70,099	\$ 64,578	\$ 76,089	\$ 76,089	\$ 76,089
Customer Engagement	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000
Educate the Students	\$ 30,305	\$ 31,421	\$ 45,164	\$ 45,164	\$ 45,164
Educate the Workforce	\$ 16,112	\$ 24,597	\$ 67,473	\$ 67,473	\$ 67,473
Subtotal: Education	\$ 116,516	\$ 120,596	\$ 288,726	\$ 288,726	\$ 288,726
OTHER - PROGRAMS/REQUIREMENTS					
Financing Support - Residential	\$ 65,874	\$ 52,478	\$ 86,292	\$ 86,292	\$ 86,292
Financing Support - C&I	\$ -	\$ -	\$ 20,000	\$ 20,000	\$ 20,000
Research, Development and Demonstration	\$ 36,634	\$ 20,164	\$ 50,000	\$ 50,000	\$ 50,000
Subtotal: Programs/Requirements	\$ 102,508	\$ 72,642	\$ 156,292	\$ 156,292	\$ 156,292
OTHER - ADMINISTRATIVE & PLANNING					
Administration	\$ 119,626	\$ 81,470	\$ 159,218	\$ 159,218	\$ 159,218
Marketing Plan	\$ 18,173	\$ 10,696	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 114,452	\$ 114,343	\$ 102,465	\$ 102,465	\$ 102,465
Evaluation Measurement and Verification	\$ 217,523	\$ 197,792	\$ 200,000	\$ 200,000	\$ 200,000
Evaluation Administrator	\$ 18,667	\$ 21,866	\$ 21,931	\$ 21,931	\$ 21,931
Information Technology	\$ 148,063	\$ 97,802	\$ 140,589	\$ 140,589	\$ 140,589
Energy Efficiency Board Consultants	\$ 30,847	\$ 43,333	\$ 43,333	\$ 43,333	\$ 43,333
Audits - Financial and Operational	\$ 10,000	\$ 1,597	\$ 10,000	\$ 10,000	\$ 10,000
Performance Management Incentive	\$ 854,443	\$ 727,765	\$ 718,107	\$ 699,641	\$ 702,267
Subtotal Other - Administrative & Planning	\$ 1,531,794	\$ 1,296,665	\$ 1,435,742	\$ 1,417,277	\$ 1,419,903
TOTAL	\$ 14,185,297	\$ 12,884,689	\$ 16,751,296	\$ 16,322,487	\$ 16,381,537

Table A Pie Chart – Connecticut Natural Gas (2021)



Customer Class	Budget*	% of Total Conservation Budget	% of Residential and C&I Budget
Res. Income Eligible	\$4,288,661	25.60%	28.02%
Res. Non Income Eligible	\$6,371,907	38.04%	41.63%
Residential Subtotal	\$10,660,569	63.64%	69.65%
Commercial and Industrial	\$4,645,085	27.73%	30.35%
C&I Subtotal	\$4,645,085	27.73%	30.35%
Residential and C&I Subtotal	\$15,305,654	91.37%	100.00%
Other Expenditures			
Other Expenditures	\$1,445,642	8.63%	
Other Expenditures Subtotal	\$1,445,642	8.63%	
TOTAL	\$16,751,296	100.00%	

*Please see attached Budget Allocation Table.

Connecticut Natural Gas Table A Budget Allocation (2019-2023)

**Connecticut Natural Gas 2019 - 2023
Table A Pie Sector Allocation**

Budget Allocation Table	Residential	C&I	Other
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	50%	50%	0%
Customer Engagement	80%	20%	0%
Educate the Students	80%	20%	0%
Educate the Workforce	50%	50%	0%
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
OTHER - LOAD MANAGEMENT			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
OTHER - ADMINISTRATIVE & PLANNING			
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 program's 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 – Connecticut Natural Gas (2020)

2020	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
CNG	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
New Construction	\$794	\$2,196	\$1,960	\$3,341	2.47	1.52	360	Homes
Home Energy Solutions	\$3,051	\$3,455	\$3,297	\$6,310	1.08	1.83	2,612	Homes
HVAC	\$2,504	\$7,162	\$2,649	\$4,537	1.06	0.63	3,589	Units
HES - Income Eligible	\$4,642	\$4,643	\$4,968	\$8,915	1.07	1.92	4,316	Homes
Behavior	\$174	\$174	\$351	\$544	2.02	3.13	15,000	Units
Subtotal: Residential EE Portfolio	\$11,165	\$17,629	\$13,226	\$23,646	1.18	1.34		
Commercial & Industrial								
Energy Conscious Blueprint	\$2,353	\$3,123	\$3,303	\$5,387	1.40	1.72	150	Projects
Energy Opportunities	\$1,344	\$3,041	\$1,959	\$3,114	1.46	1.02	28	Projects
BES	\$779	\$1,572	\$3,208	\$4,784	4.12	3.04	29	Projects
Small Business	\$364	\$648	\$364	\$608	1.00	0.94	45	Projects
Subtotal: C&I EE Portfolio	\$4,841	\$8,385	\$8,835	\$13,893	1.83	1.66		
Other								
Subtotal: Other	\$1,944	\$1,944						
TOTAL	\$17,950	\$27,958	\$22,061	\$37,540	1.23	1.34		

2020	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
CNG	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
Residential													
New Construction	121,006	3,025,145	1,164	\$6.561	\$0.262	\$682	\$27	12,451	311,287	\$64	\$3	814	20,362
Home Energy Solutions	235,138	4,788,075	1,613	\$12.976	\$0.637	\$1,892	\$93	24,196	492,693	\$126	\$6	1,525	31,062
HVAC	192,443	3,838,675	1,726	\$13.013	\$0.652	\$1,451	\$73	19,802	395,000	\$126	\$6	1,295	25,826
HES - Income Eligible	339,496	7,460,998	3,419	\$13.672	\$0.622	\$1,357	\$62	34,934	767,737	\$133	\$6	2,243	49,204
Behavior	100,080	300,240	0	\$1.737	\$0.579			10,298	30,895	\$17	\$6	741	1,859
Subtotal: Residential EE Portfolio	988,164	19,413,132	7,922	\$11.299	\$0.575	\$1,409	\$72	101,682	1,997,611	\$110	\$6	6,619	128,313
Commercial & Industrial													
Energy Conscious Blueprint	255,609	3,972,657	1,857	\$9.206	\$0.592	\$1,267	\$82	26,302	408,786	\$89	\$6	1,799	27,316
Energy Opportunities	179,813	2,067,410	1,410	\$7.476	\$0.650	\$954	\$83	18,503	212,736	\$73	\$6	1,329	15,170
BES	484,129	2,545,303	1,568	\$1.610	\$0.306	\$497	\$95	49,817	261,912	\$16	\$3	3,000	20,813
Small Business	34,989	438,494	252	\$10.409	\$0.831	\$1,446	\$115	3,600	45,121	\$101	\$8	206	2,549
Subtotal: C&I EE Portfolio	954,540	9,023,864	5,086	\$5.072	\$0.536	\$952	\$101	98,222	928,556	\$49	\$5	6,333	65,848
Other													
Subtotal: Other													
TOTAL	1,942,703	28,436,996	13,008	\$9.240	\$0.631	\$1,380	\$94	199,904	2,926,167	\$90	\$6	12,952	194,160

Table B – Connecticut Natural Gas (2021)

2021 CNG	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
Retail Products								
New Construction	\$739	\$1,059	\$3,813	\$6,572	5.16	6.21	507	Homes
Home Energy Solutions	\$2,843	\$2,892	\$3,721	\$6,406	1.31	2.22	1,662	Homes
HVAC	\$2,321	\$6,260	\$3,453	\$5,988	1.49	0.96	3,529	Units
HES - Income Eligible	\$4,289	\$4,289	\$6,231	\$13,829	1.45	3.22	2,589	Homes
Behavior	\$162	\$162	\$358	\$502	2.20	3.09	15,800	Units
Subtotal: Residential EE Portfolio	\$10,354	\$14,661	\$17,576	\$33,297	1.70	2.27		
Commercial & Industrial								
Energy Conscious Blueprint	\$2,201	\$4,874	\$3,334	\$5,602	1.51	1.15	46	Projects
Energy Opportunities	\$1,251	\$2,651	\$1,765	\$3,153	1.41	1.19	32	Projects
BES	\$725	\$1,552	\$2,142	\$3,292	2.95	2.12	18	Projects
Small Business	\$339	\$599	\$424	\$749	1.25	1.25	60	Projects
Subtotal: C&I EE Portfolio	\$4,516	\$9,676	\$7,666	\$12,796	1.70	1.32		
Subtotal: Other	\$1,881	\$1,881						
TOTAL	\$16,751	\$26,218	\$25,242	\$46,093	1.51	1.76		

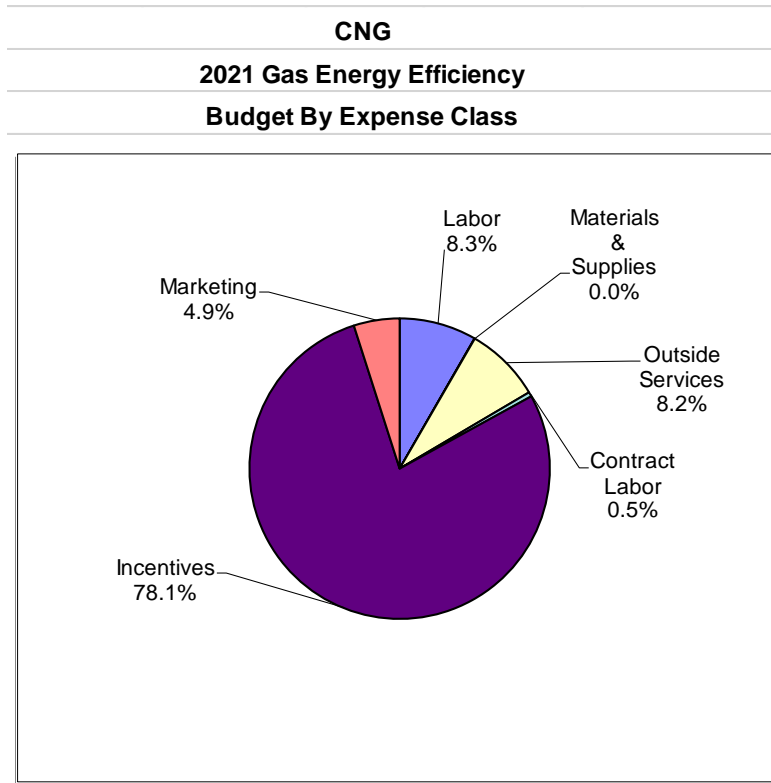
2021 CNG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential													
Retail Products													
New Construction	180,422	4,510,551	1,761	\$4.097	\$0.164	\$420	\$17	18,565	464,136	\$40	\$2	1,335	33,381
Home Energy Solutions	202,373	4,326,799	2,403	\$14.048	\$0.657	\$1,183	\$55	20,824	445,228	\$137	\$6	1,503	32,055
HVAC	202,936	4,046,009	1,830	\$11.438	\$0.574	\$1,269	\$64	20,882	416,334	\$111	\$6	1,502	29,943
HES - Income Eligible	320,833	6,347,651	2,509	\$13.367	\$0.676	\$1,709	\$86	33,014	653,173	\$130	\$7	1,985	39,117
Behavior	105,418	210,835	0	\$1.541	\$0.771			10,847	21,695	\$15	\$7	780	1,560
Subtotal: Residential EE Portfolio	1,011,982	19,441,846	8,503	\$10.232	\$0.533	\$1,218	\$63	104,133	2,000,566	\$99	\$5	7,104	136,056
Commercial & Industrial													
Energy Conscious Blueprint	231,257	3,555,516	2,268	\$9.517	\$0.619	\$970	\$63	23,796	365,863	\$92	\$6	1,711	26,313
Energy Opportunities	145,762	2,162,645	1,938	\$8.584	\$0.579	\$646	\$44	14,999	222,536	\$83	\$6	1,079	16,005
BES	313,780	1,720,262	355	\$2.311	\$0.422	\$2,043	\$373	32,288	177,015	\$22	\$4	2,322	12,731
Small Business	43,611	498,906	342	\$7.772	\$0.679	\$992	\$87	4,488	51,337	\$76	\$7	323	3,692
Subtotal: C&I EE Portfolio	734,408	7,937,329	4,902	\$6.150	\$0.569	\$921	\$85	75,571	816,751	\$60	\$6	5,435	58,741
Subtotal: Other													
TOTAL	1,746,390	27,379,175	13,405	\$9.592	\$0.612	\$1,250	\$80	179,704	2,817,317	\$93	\$6	12,540	194,797

Table C – Connecticut Natural Gas (2021)

**Table C
CNG 2021 Budget Details**

GAS ENERGY EFFICIENCY BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contract Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
RESIDENTIAL									
Residential New Construction	\$ 77,631	\$ 200	\$ 3,132	\$ 1,500	\$ 643,952	\$ 10,212	\$ 875	\$ 1,625	\$ 739,127
Home Energy Solutions (HES)	\$ 197,983	\$ 700	\$ 217,733	\$ 50,000	\$ 2,244,575	\$127,860	\$ 1,409	\$ 2,618	\$ 2,842,878
HVAC / Water Heating	\$ 66,270	\$ 500	\$ 133,672	\$ 6,000	\$ 2,067,814	\$ 43,871	\$ 1,050	\$ 1,950	\$ 2,321,127
HES Income Eligible	\$ 197,285	\$ 1,000	\$ 47,800	\$ 6,000	\$ 3,934,555	\$ 99,420	\$ 910	\$ 1,690	\$ 4,288,661
Residential Behavior	\$ 18,935	\$ 100	\$ 143,456	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 162,491
Subtotal: Residential EE Portfolio	\$ 558,105	\$ 2,500	\$ 545,793	\$ 63,500	\$ 8,890,897	\$281,362	\$ 4,244	\$ 7,883	\$10,354,285
COMMERCIAL & INDUSTRIAL									
LOST OPPORTUNITY									
Energy Conscious Blueprint	\$ 126,213	\$ 1,000	\$ 47,970	\$ 3,000	\$ 1,782,076	\$ 216,669	\$ 3,417	\$ 20,502	\$ 2,200,847
Subtotal C&I - Lost Opportunity	\$ 126,213	\$ 1,000	\$ 47,970	\$ 3,000	\$ 1,782,076	\$ 216,669	\$ 3,417	\$ 20,502	\$ 2,200,847
LARGE RETROFIT									
Energy Opportunities	\$ 126,213	\$ 700	\$ 26,316	\$ 4,000	\$ 933,546	\$ 155,133	\$ 250	\$ 5,000	\$ 1,251,158
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 102,246	\$ 500	\$ 7,112	\$ 1,000	\$ 551,296	\$ 55,387	\$ 250	\$ 7,500	\$ 725,292
Subtotal C&I - Lost Opportunity	\$ 228,460	\$ 1,200	\$ 33,428	\$ 5,000	\$ 1,484,842	\$ 210,521	\$ 500	\$ 12,500	\$ 1,976,450
Small Business	\$ 70,728	\$ 200	\$ 5,250	\$ 5,000	\$ 173,056	\$ 24,221	\$ 500	\$ 60,000	\$ 338,954
Subtotal: C&I EE Portfolio	\$ 425,401	\$ 2,400	\$ 86,649	\$ 13,000	\$ 3,439,974	\$ 451,410	\$ 4,417	\$ 93,002	\$ 4,516,252
OTHER - EDUCATION									
Educate the Public	\$ 10,732	\$ 415	\$ 50,323	\$ -	\$ -	\$ 2,074	\$ 9,650	\$ 2,895	\$ 76,089
Customer Engagement	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Educate the Students	\$ 8,303	\$ 374	\$ 29,512	\$ -	\$ -	\$ 4,021	\$ 2,272	\$ 682	\$ 45,164
Educate the Workforce	\$ 4,461	\$ 208	\$ 57,638	\$ -	\$ -	\$ 480	\$ 3,605	\$ 1,081	\$ 67,473
Subtotal: Education	\$ 23,496	\$ 996	\$ 237,473	\$ -	\$ -	\$ 6,575	\$ 15,527	\$ 4,658	\$ 288,726
OTHER - PROGRAMS/REQUIREMENTS									
Financing Support - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,292	\$ -	\$ 86,292
Financing Support - C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -	\$ 20,000
Research, Development and Demonstration	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Subtotal: Programs/Requirements	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$106,292	\$ -	\$ 156,292
OTHER - ADMINISTRATIVE & PLANNING									
Administration	\$ 149,835	\$ -	\$ 9,383	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 159,218
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$ 40,100
Planning	\$ 102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,465
Evaluation Measurement and Verification	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Evaluation Administrator	\$ -	\$ -	\$ 21,931	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,931
Information Technology	\$ 53,268	\$ -	\$ 87,321	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 140,589
Energy Efficiency Board Consultants	\$ -	\$ -	\$ 43,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,333
Audits - Financial and Operational	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Performance Management Incentive	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$718,107	\$ -	\$ 718,107
Subtotal: Other	\$ 305,568	\$ -	\$ 371,968	\$ -	\$ -	\$ 40,100	\$718,107	\$ -	\$ 1,435,742
TOTAL BUDGET	\$1,312,569	\$ 5,896	\$1,291,883	\$76,500	\$12,330,871	\$ 779,447	\$848,587	\$ 105,543	\$16,751,296

Table C Pie Chart – Connecticut Natural Gas (2021)



Expense Classes	Budget	% of Budget
Labor	\$ 1,312,569	7.8%
Materials & Supplies	\$ 5,896	0.0%
Outside Services	\$ 1,291,883	7.7%
Contract Labor	\$ 76,500	0.5%
Incentives	\$ 12,330,871	73.6%
Marketing	\$ 779,447	4.7%
Other	\$ 848,587	5.1%
Administrative Expenses	\$ 105,543	0.6%
Total	\$ 16,751,296	100.00%

Table D – Connecticut Natural Gas Historical and Projected Expenditures

**Table D
CNG Historical and Projected Expenditures \$ (000)**

	2011 Actual	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal	2022 Goal
RESIDENTIAL												
HES Income Eligible - Weatherization	\$1,035	\$838	\$904	\$2,912	\$4,513	\$4,256	\$5,307	\$4,987	\$345	\$96	\$4,289	\$4,173
Home Energy Solutions (HES)	\$1,518	\$1,548	\$2,014	\$4,584	\$3,342	\$2,439	\$2,356	\$1,846	\$1,653	\$2,498	\$2,843	\$3,086
HVAC / Water Heating	\$45	\$45	\$22	\$97	\$344	\$1,870	\$1,746	\$2,051	\$2,572	\$2,683	\$2,321	\$1,934
Residential New Construction	\$905	\$477	\$1,374	\$448	\$562	\$710	\$427	\$480	\$4,516	\$470	\$739	\$718
Residential Behavior	\$ -	\$ -	\$ -	\$ -	\$ -	\$165	\$32	\$138	\$30	\$151	\$162	\$158
Subtotal: Residential EE Portfolio	\$3,503	\$2,908	\$4,314	\$8,041	\$8,761	\$9,440	\$9,868	\$9,502	\$9,116	\$5,899	\$10,354	\$10,070
COMMERCIAL & INDUSTRIAL												
C&I Lost Opportunity												
Energy Conscious Blueprint	\$873	\$1,262	\$1,177	\$1,885	\$1,151	\$2,120	\$2,297	\$1,902	\$1,418	\$4,146	\$2,201	\$2,139
Total - Lost Opportunity	\$873	\$1,262	\$1,177	\$1,885	\$1,151	\$2,120	\$2,297	\$1,902	\$1,418	\$4,146	\$2,201	\$2,139
C&I LARGE RETROFIT												
Energy Opportunities	\$471	\$778	\$1,536	\$814	\$1,150	\$854	\$1,286	\$716	\$1,245	\$813	\$1,251	\$1,216
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$29	\$160	\$90	\$385	\$78	\$312	\$602	\$1,012	\$403	\$419	\$725	\$705
Total - C&I Large Retrofit	\$500	\$938	\$1,626	\$1,199	\$1,228	\$1,166	\$1,888	\$1,728	\$1,648	\$1,232	\$1,976	\$1,921
Small Business	\$ -	\$51	\$211	\$199	\$192	\$195	\$138	\$212	\$253	\$119	\$339	\$329
Subtotal: C&I EE Portfolio	\$1,374	\$2,251	\$3,014	\$3,283	\$2,571	\$3,481	\$4,323	\$3,841	\$3,319	\$5,496	\$4,516	\$4,390
OTHER-EDUCATION												
Educate the Public	\$ -	\$ -	\$ -	\$ -	\$ -	\$200	\$186	\$68	\$70	\$65	\$76	\$76
Customer Engagement	\$ -	\$ -	\$ -	\$ -	\$ -	\$94	\$34	\$33	\$ -	\$ -	\$100	\$100
Educate the Students	\$ -	\$ -	\$ -	\$ -	\$ -	\$33	\$68	\$26	\$30	\$31	\$45	\$45
Educate the Workforce	\$ -	\$ -	\$ -	\$ -	\$ -	\$30	\$14	\$12	\$16	\$25	\$67	\$67
Smart Living Center / Science Center	\$ -	\$ -	\$ -	\$167	\$100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
eeSmarts/K-12 Education	\$ -	\$ -	\$ -	\$26	\$70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities	\$ -	\$ -	\$ -	\$41	\$57	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Education	\$ -	\$ -	\$ -	\$234	\$227	\$357	\$302	\$139	\$117	\$121	\$289	\$289
OTHER-PROGRAMS/REQUIREMENTS												
Financing Support - Residential	\$53	\$57	\$56	\$56	\$77	\$59	\$67	\$ -	\$66	\$52	\$86	\$86
Financing Support - C&I	\$ -	\$ -	\$ -	\$ -	\$ -	(\$7)	\$23	\$ -	\$ -	\$ -	\$20	\$20
Research, Development & Demonstration	\$ -	\$ -	\$79	\$ -	\$ -	\$7	\$16	\$55	\$37	\$20	\$50	\$50
Institute for Sustainable Energy	\$ -	\$ -	\$0	\$37	\$41	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$ -	\$0	\$6	\$3	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$ -	\$18	\$ -	\$9	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Programs/Requirements	\$53	\$57	\$153	\$99	\$130	\$59	\$106	\$55	\$103	\$73	\$156	\$156
OTHER-ADMINISTRATIVE & PLANNING												
Administration	\$ -	\$ -	\$90	\$130	\$237	\$130	\$172	\$143	\$120	\$81	\$159	\$159
Marketing Plan	\$ -	\$ -	\$ -	\$97	\$85	\$109	\$73	\$31	\$18	\$11	\$40	\$40
Planning	\$28	\$234	\$145	\$99	\$101	\$141	\$169	\$108	\$114	\$114	\$102	\$102
Evaluation Measurement and Verification	\$18	\$128	\$36	\$132	\$231	\$200	\$200	\$218	\$218	\$198	\$200	\$200
Evaluation Administrator	\$0	\$0	\$0	\$26	\$26	\$20	\$20	\$19	\$19	\$22	\$22	\$22
Information Technology	\$31	\$32	\$49	\$101	\$141	\$109	\$107	\$150	\$148	\$98	\$141	\$141
Energy Efficiency Board Consultants	\$12	\$22	\$43	\$24	\$63	\$43	\$43	\$32	\$31	\$43	\$43	\$43
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$10	\$4	\$10	\$2	\$10	\$10
Performance Management Incentive	\$ -	\$ -	\$601	\$598	\$733	\$687	\$896	\$877	\$854	\$728	\$718	\$700
Subtotal: Administrative & Planning	\$89	\$417	\$964	\$1,208	\$1,617	\$1,439	\$1,690	\$1,582	\$1,532	\$1,297	\$1,436	\$1,417
TOTAL	\$5,019	\$5,633	\$8,444	\$12,865	\$13,306	\$14,776	\$16,289	\$15,120	\$14,185	\$12,885	\$16,751	\$16,322

Table D1 – Connecticut Natural Gas Annual Savings CCF (2012-2021)

Table 1
CNG Historical and Projected Annual ccf
Annual ccf (000)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	124	95	423	451	594	473	442	369	145	321
Home Energy Solutions (HES)	269	403	607	486	278	243	216	195	187	202
HVAC / Water Heating	8	1	16	44	257	215	269	244	232	203
Residential New Construction	34	74	90	49	96	97	95	79	77	180
Residential Behavior	NA	NA	NA	NA	89	62	-	96	-	105
Subtotal: Residential EE Portfolio	435	573	1,136	1,030	1,314	1,090	1,022	983	641	1,012
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	308	399	274	256	403	528	193	213	546	231
Total - Lost Opportunity	308	399	274	256	403	528	193	213	546	231
C&I LARGE RETROFIT										
Energy Opportunities	217	403	264	203	222	307	427	344	112	146
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	200	91	245	133	134	195	392	268	161	314
Total - C&I Large Retrofit	417	494	509	336	356	502	819	612	273	460
Small Business	19	33	14	40	16	48	24	51	7	44
Subtotal: C&I EE Portfolio	744	926	797	632	775	1,078	1,036	876	826	734
TOTAL	1,180	1,500	1,934	1,662	2,089	2,168	2,058	1,859	1,467	1,746

Table D1 – Connecticut Natural Gas Lifetime Savings CCF (2012-2021)**Table 1
CNG Historical and Projected Lifetime ccf
Lifetime ccf (000)**

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	2,500	1,612	8,285	8,660	12,047	9,848	9,235	7,965	3,065	6,348
Home Energy Solutions (HES)	4,997	7,461	12,033	9,870	5,652	4,944	4,367	3,777	3,856	4,327
HVAC / Water Heating	146	25	285	809	5,114	4,264	5,369	4,862	4,515	4,046
Residential New Construction	820	1,675	2,078	1,116	2,384	2,414	2,261	2,540	1,933	4,511
Residential Behavior	NA	NA	NA	NA	232	162	-	202	-	211
Subtotal: Residential EE Portfolio	8,463	10,773	22,681	20,455	25,430	21,632	21,232	19,346	13,369	19,442
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	4,294	6,670	4,233	4,136	6,233	8,415	2,926	3,006	8,654	3,556
Total - Lost Opportunity	4,294	6,670	4,233	4,136	6,233	8,415	2,926	3,006	8,654	3,556
C&I LARGE RETROFIT										
Energy Opportunities	2,094	4,517	2,793	2,476	2,331	3,541	4,411	3,508	1,136	2,163
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	1,172	466	1,700	889	729	1,041	2,037	1,414	851	1,720
Total - C&I Large Retrofit	3,267	4,983	4,493	3,365	3,060	4,582	6,448	4,922	1,987	3,883
Small Business	193	442	217	485	181	592	277	604	74	499
Subtotal: C&I EE Portfolio	7,753	12,095	8,943	7,986	9,474	13,589	9,651	8,532	10,715	7,937
TOTAL	16,216	22,868	31,624	28,441	34,904	35,221	30,883	27,878	24,084	27,379

Table D2 – Connecticut Natural Gas Annual Cost Rates (2012-2021)

Table D2
CNG Historical and Projected Annual Cost Rates (2012-2021)
Annual \$/ccf

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Goal

RESIDENTIAL

HES Income Eligible - Weatherization	\$ 6.734	\$ 9.464	\$ 6.884	\$10.007	\$ 7.165	\$11.220	\$11.283	\$ 0.936	\$ 0.664	\$13.367
Home Energy Solutions (HES)	\$ 5.748	\$ 4.998	\$ 7.552	\$ 6.877	\$ 8.773	\$ 9.695	\$ 8.547	\$ 8.475	\$13.356	\$14.048
HVAC / Water Heating	\$ 5.900	\$17.200	\$ 6.013	\$ 7.818	\$ 7.276	\$ 8.121	\$ 7.625	\$10.541	\$11.565	\$11.438
Residential New Construction	\$14.046	\$18.663	\$ 4.978	\$11.469	\$ 7.396	\$ 4.402	\$ 5.050	\$57.164	\$ 6.110	\$ 4.097
Residential Behavior					\$ 1.854	\$ 0.516	NA	\$ 0.310	N/A	\$ 1.541
Subtotal: Residential EE Portfolio	\$ 6.680	\$ 7.523	\$ 7.077	\$ 8.506	\$ 7.184	\$ 9.053	\$ 9.297	\$ 9.273	\$ 9.202	\$10.232

COMMERCIAL & INDUSTRIAL**C&I LOST OPPORTUNITY**

Energy Conscious Blueprint	\$ 4.093	\$ 2.950	\$ 6.880	\$ 4.496	\$ 5.261	\$ 4.350	\$ 9.853	\$ 6.659	\$ 7.593	\$ 9.517
Total - Lost Opportunity	\$ 4.093	\$ 2.950	\$ 6.880	\$ 4.496	\$ 5.261	\$ 4.350	\$ 9.853	\$ 6.659	\$ 7.593	\$ 9.517

C&I LARGE RETROFIT

Energy Opportunities	\$ 3.585	\$ 3.811	\$ 3.083	\$ 5.665	\$ 3.847	\$ 4.189	\$ 1.677	\$ 3.619	\$ 7.261	\$ 8.584
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 0.799	\$ 0.989	\$ 1.571	\$ 0.586	\$ 2.328	\$ 3.087	\$ 2.581	\$ 1.504	\$ 2.599	\$ 2.311
Total - C&I Large Retrofit	\$ 2.250	\$ 3.291	\$ 2.356	\$ 3.655	\$ 3.275	\$ 3.761	\$ 2.110	\$ 2.692	\$ 4.512	\$ 4.301
Small Business	\$ 2.676	\$ 6.337	\$13.808	\$ 4.800	\$12.188	\$ 2.875	\$ 8.831	\$ 4.954	\$16.959	\$ 7.772
Subtotal: C&I EE Portfolio	\$ 3.024	\$ 3.254	\$ 4.117	\$ 4.068	\$ 4.492	\$ 4.010	\$ 3.708	\$ 3.789	\$ 6.654	\$ 6.150

Table D2 – Connecticut Natural Gas Lifetime Cost Rates (2012-2021)

Table D2
CNG Historical and Projected Lifetime Cost Rates (2012-2021)
 Lifetime \$/ccf

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	\$ 0.335	\$ 0.561	\$ 0.351	\$ 0.521	\$ 0.353	\$ 0.539	\$ 0.540	\$ 0.043	\$ 0.031	\$ 0.676
Home Energy Solutions (HES)	\$ 0.310	\$ 0.270	\$ 0.381	\$ 0.339	\$ 0.432	\$ 0.477	\$ 0.423	\$ 0.438	\$ 0.648	\$ 0.657
HVAC / Water Heating					\$ 0.366	\$ 0.409	\$ 0.382	\$ 0.529	\$ 0.594	\$ 0.574
Residential New Construction	\$ 0.582	\$ 0.821	\$ 0.216	\$ 0.504	\$ 0.298	\$ 0.177	\$ 0.212	\$ 1.778	\$ 0.243	\$ 0.164
Residential Behavior					\$ 0.711	\$ 0.198	NA	\$ 0.147	NA	\$ 0.771
Water Heating	\$ -	\$ -	\$ -	\$ -						
Subtotal: Residential EE Portfolio	\$ 0.344	\$ 0.400	\$ 0.355	\$ 0.428	\$ 0.371	\$ 0.456	\$ 0.448	\$ 0.471	\$ 0.441	\$ 0.533
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$ 0.294	\$ 0.176	\$ 0.445	\$ 0.278	\$ 0.340	\$ 0.273	\$ 0.650	\$ 0.472	\$ 0.479	\$ 0.619
Total - Lost Opportunity	\$ 0.294	\$ 0.176	\$ 0.445	\$ 0.278	\$ 0.340	\$ 0.273	\$ 0.650	\$ 0.472	\$ 0.479	\$ 0.619
C&I LARGE RETROFIT										
Energy Opportunities	\$ 0.372	\$ 0.340	\$ 0.291	\$ 0.464	\$ 0.366	\$ 0.363	\$ 0.162	\$ 0.355	\$ 0.716	\$ 0.579
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 0.136	\$ 0.193	\$ 0.226	\$ 0.088	\$ 0.428	\$ 0.578	\$ 0.497	\$ 0.285	\$ 0.492	\$ 0.422
Total - C&I Large Retrofit	\$ 0.287	\$ 0.326	\$ 0.267	\$ 0.365	\$ 0.381	\$ 0.412	\$ 0.268	\$ 0.335	\$ 0.620	\$ 0.509
Small Business	\$ 0.265	\$ 0.476	\$ 0.918	\$ 0.396	\$ 1.077	\$ 0.233	\$ 0.765	\$ 0.418	\$ 1.604	\$ 0.679
Subtotal: C&I EE Portfolio	\$ 0.290	\$ 0.249	\$ 0.367	\$ 0.322	\$ 0.367	\$ 0.318	\$ 0.398	\$ 0.389	\$ 0.513	\$ 0.569

Table D3 – Connecticut Natural Gas Historical and Projected Units (2012-2021)**Table D3
CNG Historical and Project Units (2012-2021)**

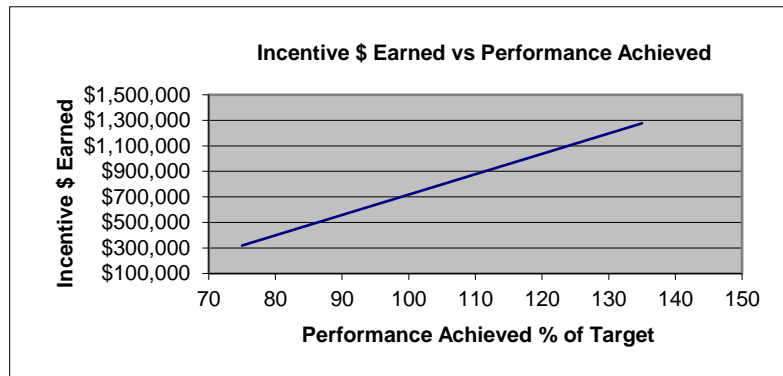
	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	1,112	800	3,766	4,036	5,720	1,584	11,563	5,785	1,491	2,589
Home Energy Solutions (HES)	2,709	4,543	4,872	3,957	2,937	2,251	2,724	2,427	2,035	1,662
HVAC / Water Heating	88	26	288	736	2,922	2,452	3,272	3,938	4,861	3,529
Residential New Construction	276	345	163	181	275	355	1,005	408	310	507
Residential Behavior					26,243	26,455	-	14,432		15,800
Subtotal: Residential EE Portfolio	4,185	5,714	9,089	8,910	38,097	33,097	18,564	26,990	8,697	24,087
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	93	125	97	54	125	163	118	185	262	46
Total - Lost Opportunity	93	125	97	54	125	163	118	185	262	46
C&I LARGE RETROFIT										
Energy Opportunities	20	24	31	22	38	32	49	39	23	32
Business & Energy Sustainability(O&M, RCx, BSC, CSP/SEM)	9	8	19	26	12	26	36	47	22	18
Total - C&I Large Retrofit	29	32	50	48	50	58	85	86	45	50
Small Business	9	20	24	31	26	28	22	54	24	60
Subtotal: C&I EE Portfolio	131	177	171	133	201	249	225	325	331	156
TOTAL	4,316	5,891	9,260	9,043	38,298	33,346	18,789	27,315	9,028	24,243

Connecticut Natural Gas PMI (2021)

**2021 Management Incentive Performance Indicators and Incentive Matrix
CONNECTICUT NATURAL GAS CORPORATION**

This calculation is based on achieving 100% of all performance targets and earning a target incentive of 4.5% of EE budgets (not including EEB costs, Audit Costs or Management Incentive). Goals will be prorated based on actual over/under spend of budget. The actual incentive earned will be determined by the performance achieved in each of the Incentive Metrics identified below, based on the following Performance Index:

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.0%	\$319,159
85	3.0%	\$478,738
95	4.0%	\$638,317
100	4.5%	\$718,107
105	5.0%	\$797,896
115	6.0%	\$957,456
125	7.0%	\$1,117,055
135	8.0%	\$1,276,634



Total Original Budget* **\$15,957,926**

*Does not include Incentive, EEB costs, and Audit.

Connecticut Natural Gas PMI (2021) (continued)

SECTOR		Performance Indicators		Incentive Metrics				
Program				Incentive Metric	Target Goal	Weight	Incentive	
Residential Program Budgets	\$10,354,285	Lifetime Savings (ccf):		Total Gas Benefit from all Residential programs	Gas Benefit from all Residential programs \$17,576,097	0.1925	\$138,236	
		HES Income Eligible	6,347,651					
		Home Energy Solutions (HES)	4,326,799					
		HVAC / Water Heating	4,046,009					
		Residential Behavior	210,835					
		New Construction	4,510,551					
		Total Lifetime Savings (ccf)	19,441,846					
		Present Value Lifetime Savings (ccf)	\$0.9040					
		Total Residential Gas Benefit:	\$17,576,097					
		Net Residential Gas Benefit:	\$7,221,813		\$7,221,813	0.1925	\$138,236	
HES	\$2,842,878	Achieve CCF savings per single-family home. Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0%.		ccf/home	Achieve CCF savings/single-family home	0.060	\$43,086	
HES-IE	\$4,288,661	Annual ccf savings		Annual ccf savings	320,833	0.030	\$21,543	
C&I Program Budgets	\$4,516,252	Lifetime Savings (ccf):		Total Gas Benefit from all C&I programs	Gas Benefit from all C&I programs \$7,665,686	0.2075	\$149,007	
		Energy Conscious Blueprint	3,555,516					
		Energy Opportunities	2,162,645					
		O&M	1,720,262					
		Small Business	498,906					
		Total Lifetime Savings (ccf)	7,937,329					
		Present Value Lifetime Savings (ccf)						\$0.9658
		Total C&I Gas Benefit:						\$7,665,686
		Net C&I Gas Benefit:						\$3,149,435

Connecticut Natural Gas PMI (2021) (continued)

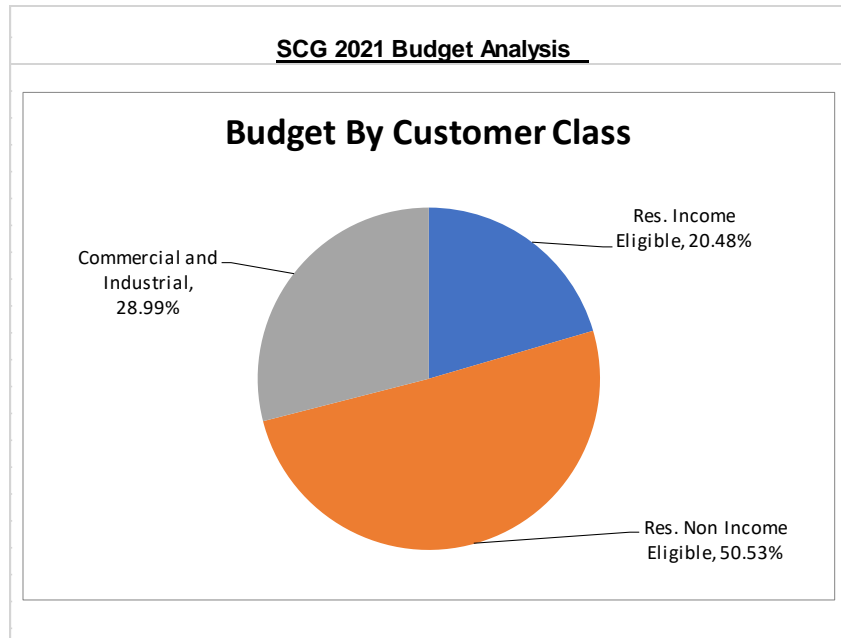
SECTOR		Performance Indicators	Incentive Metrics			
Program			Incentive Metric	Target Goal	Weight	Incentive
Small Business	\$338,954	Develop and implement comprehensive offerings. Offerings will consist of a tailored combination of measure and service bundles, energy management, and financing where appropriate (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 with SEM counting as an end use. Based on 2020 Actual Results plus 5%	% of Gas Projects	% of signed projects	0.050	\$35,905
Energy Blueprint/Energy Opportunities		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 SEM counting as more than one end use. Based on 2020 Actual Results plus 5%.	% of Gas Projects	% of signed projects	0.050	\$35,905
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	0.010	\$7,181
Total Incentive \$ Residential and C&I					1.000	\$718,107

D.8. SOUTHERN CONNECTICUT GAS BUDGET AND SAVINGS TABLES**Table A – Southern Connecticut Gas (2021)****Table A
SCG Proposed Natural Gas Energy Efficiency Plan Budget (2021)**

Natural Gas EE Budget	12/31/2019 2019 SCG Actual Results	12/31/2020 2020 SCG Actual Results	3/1/2021 2021 SCG Budget Update	3/1/2021 2022 SCG Budget Update	3/1/2021 2023 SCG Budget Update
RESIDENTIAL					
Residential New Construction	\$ 498,505	\$ 463,333	\$ 752,505	\$ 960,099	\$ 974,807
Home Energy Solutions (HES)	\$ 1,857,838	\$ 2,556,209	\$ 2,438,604	\$ 1,713,168	\$ 1,739,412
HVAC/Water Heating	\$ 3,493,108	\$ 3,256,694	\$ 3,269,078	\$ 3,131,423	\$ 3,175,800
HES-Income Eligible	\$ 3,049,996	\$ 1,680,548	\$ 2,809,339	\$ 3,059,847	\$ 3,106,721
Residential Behavior	\$ 29,770	\$ 151,126	\$ 166,138	\$ 157,557	\$ 159,971
Subtotal: Residential EE Portfolio	\$ 8,929,218	\$ 8,107,910	\$ 9,435,663	\$ 9,022,095	\$ 9,156,712
COMMERCIAL & INDUSTRIAL					
C&I LOST OPPORTUNITY					
Energy Conscious Blueprint	\$ 1,225,977	\$ 2,156,813	\$ 1,811,859	\$ 1,735,217	\$ 1,761,799
Total - Lost Opportunity	\$ 1,225,977	\$ 2,156,813	\$ 1,811,859	\$ 1,735,217	\$ 1,761,799
C&I LARGE RETROFIT					
Energy Opportunities	\$ 733,604	\$ 2,032,986	\$ 1,188,421	\$ 1,142,985	\$ 1,155,623
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 197,331	\$ 228,959	\$ 531,797	\$ 509,310	\$ 517,112
Total - C&I Large Retrofit	\$ 930,935	\$ 2,261,945	\$ 1,720,218	\$ 1,652,295	\$ 1,672,735
Small Business	\$ 216,506	\$ 237,722	\$ 261,290	\$ 250,242	\$ 254,076
Subtotal: C&I EE Portfolio	\$ 2,373,418	\$ 4,656,480	\$ 3,793,368	\$ 3,637,754	\$ 3,688,609
OTHER - EDUCATION					
Educate the Public	\$ 70,658	\$ 64,542	\$ 76,089	\$ 76,089	\$ 76,089
Customer Engagement	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000
Educate the Students	\$ 30,515	\$ 31,404	\$ 45,164	\$ 45,164	\$ 45,164
Educate the Workforce	\$ 16,111	\$ 25,847	\$ 67,473	\$ 67,473	\$ 67,473
Subtotal: Education	\$ 117,284	\$ 121,793	\$ 288,726	\$ 288,726	\$ 288,726
OTHER - PROGRAMS/REQUIREMENTS					
Financing Support - Residential	\$ 81,757	\$ 61,749	\$ 86,292	\$ 86,292	\$ 86,292
Financing Support - C&I	\$ -	\$ -	\$ 75,000	\$ 75,000	\$ 75,000
Research, Development & Demonstration	\$ 37,918	\$ 20,163	\$ 50,000	\$ 50,000	\$ 50,000
Subtotal: Programs/Requirements	\$ 119,675	\$ 81,912	\$ 211,292	\$ 211,292	\$ 211,292
OTHER - ADMINISTRATIVE & PLANNING					
Administration	\$ 119,729	\$ 80,628	\$ 159,219	\$ 159,219	\$ 159,219
Marketing Plan	\$ 18,173	\$ 9,312	\$ 40,100	\$ 40,100	\$ 40,100
Planning	\$ 106,494	\$ 114,343	\$ 102,465	\$ 102,465	\$ 102,465
Evaluation Measurement & Verification	\$ 217,524	\$ 200,835	\$ 200,000	\$ 200,000	\$ 200,000
Evaluation Administrator	\$ 18,667	\$ 21,865	\$ 21,931	\$ 21,931	\$ 21,931
Information Technology	\$ 127,849	\$ 78,797	\$ 140,590	\$ 140,590	\$ 140,590
Energy Efficiency Board Consultants	\$ 30,847	\$ 43,333	\$ 43,333	\$ 43,333	\$ 43,333
Audits - Financial and Operational	\$ 10,000	\$ 1,597	\$ 10,000	\$ 10,000	\$ 10,000
Performance Management Incentive	\$ 900,581	\$ 629,890	\$ 646,714	\$ 621,101	\$ 629,534
Subtotal: Other – Admin. & Planning	\$ 1,549,865	\$ 1,180,601	\$ 1,364,352	\$ 1,338,739	\$ 1,347,172
TOTAL	\$ 13,089,459	\$ 14,148,696	\$ 15,093,401	\$ 14,498,605	\$ 14,692,511

Table A Pie Chart – Southern Connecticut Gas (2021)

SCG 2021 Budget Analysis



Customer Class	Budget*	% of Total Conservation Budget	% of Residential and C&I Budget
Res. Income Eligible	\$2,809,339	18.61%	20.48%
Res. Non Income Eligible	\$6,932,609	45.93%	50.53%
Residential Subtotal	\$9,741,948	64.54%	71.01%
Commercial and Industrial	\$3,977,201	26.35%	28.99%
C&I Subtotal	\$3,977,201	26.35%	28.99%
Residential and C&I Subtotal	\$13,719,149	90.90%	100.00%
Other Expenditures			
Other Expenditures	\$1,374,252	9.10%	
Other Expenditures Subtotal	\$1,374,252	9.10%	
TOTAL	\$15,093,401	100.00%	

*Please see attached Budget Allocation Table.

Southern Connecticut Gas Table A Budget Allocation (2019-2023)

**Southern Connecticut Gas 2019 - 2023
Table A Pie Sector Allocation**

Budget Allocation Table	Residential	C&I	Other
OTHER - EDUCATION & ENGAGEMENT			
Educate the Public	50%	50%	0%
Customer Engagement	80%	20%	0%
Educate the Students	80%	20%	0%
Educate the Workforce	50%	50%	0%
OTHER - PROGRAMS/REQUIREMENTS			
Residential Loan Program	100%	0%	0%
C&I Financing Support	0%	100%	0%
Research, Development & Demonstration	0%	0%	100%
OTHER - LOAD MANAGEMENT			
Residential Demand Response	100%	0%	0%
C&I Demand Response	0%	100%	0%
OTHER - ADMINISTRATIVE & PLANNING			
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 program's 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 (2020)

2020 SCG	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
New Construction	\$1,167	\$3,272	\$1,924	\$3,279	1.65	1.00	532	Homes
Home Energy Solutions	\$2,088	\$2,558	\$3,002	\$5,588	1.44	2.18	1,823	Homes
HVAC	\$3,816	\$10,960	\$4,468	\$7,657	1.17	0.70	5,904	Units
HES - Income Eligible	\$3,672	\$3,673	\$4,670	\$8,286	1.27	2.26	2,905	Homes
Behavior	\$193	\$193	\$351	\$544	1.82	2.82	15,000	Units
Subtotal: Residential EE Portfolio	\$10,936	\$20,656	\$14,415	\$25,354	1.32	1.23		
Commercial & Industrial								
Energy Conscious Blueprint	\$2,098	\$2,879	\$3,094	\$5,048	1.48	1.75	152	Projects
Energy Opportunities	\$1,377	\$3,434	\$2,375	\$3,774	1.72	1.10	34	Projects
BES	\$616	\$1,324	\$3,442	\$5,242	5.59	3.96	26	Projects
Small Business	\$302	\$608	\$392	\$654	1.30	1.08	48	Projects
Subtotal: C&I EE Portfolio	\$4,393	\$8,244	\$9,303	\$14,718	2.12	1.79		
Other								
Subtotal: Other	\$1,971	\$1,971						
TOTAL	\$17,300	\$30,871	\$23,719	\$40,072	1.37	1.30		

2020 SCG	Gas Savings		Gas Cost Rates			Gas Demand Cost \$/ccf	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 \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential													
New Construction	118,764	2,969,105	1,143	\$9.826	\$0.393	\$1,021	\$41	12,221	305,521	\$95	\$4	705	17,625
Home Energy Solutions	202,646	4,447,852	2,004	\$10.306	\$0.470	\$1,042	\$47	20,852	457,684	\$100	\$5	1,137	24,947
HVAC	324,350	6,486,992	2,900	\$11.764	\$0.588	\$1,316	\$66	33,376	667,511	\$114	\$6	1,947	38,946
HES - Income Eligible	313,510	7,033,014	3,091	\$11.712	\$0.522	\$1,188	\$53	32,260	723,697	\$114	\$5	1,878	42,070
Behavior	100,080	300,240	0	\$1.929	\$0.643			10,298	30,895	\$19	\$6	741	1,859
Subtotal: Residential EE Portfolio	1,059,350	21,237,202	9,138	\$10.324	\$0.515	\$1,197	\$60	109,007	2,185,308	\$100	\$5	6,408	125,447
Commercial & Industrial													
Energy Conscious Blueprint	239,845	3,721,121	1,884	\$8.745	\$0.564	\$1,113	\$72	24,680	382,903	\$85	\$5	1,683	25,549
Energy Opportunities	217,945	2,505,837	1,709	\$6.318	\$0.550	\$806	\$70	22,427	257,851	\$61	\$5	1,453	16,591
BES	432,433	2,996,914	1,436	\$1.425	\$0.206	\$429	\$62	44,497	308,382	\$14	\$2	2,400	16,653
Small Business	37,632	471,613	271	\$8.028	\$0.641	\$1,115	\$89	3,872	48,529	\$78	\$6	196	2,427
Subtotal: C&I EE Portfolio	927,854	9,695,485	5,300	\$4.734	\$0.453	\$829	\$79	95,476	997,665	\$46	\$4	5,732	61,220
Other													
Subtotal: Other													
TOTAL	1,987,204	30,932,687	14,438	\$8.706	\$0.559	\$1,198	\$77	204,483	3,182,974	\$85	\$5	12,140	186,666

Table B – Southern Connecticut Gas (2021)

2021 SCG	Costs (\$000)		Benefits (\$000)		Benefit Cost Ratios		Quantities	
	Utility Cost	Total Resource Cost	Utility Benefit	Total Resource Benefit	Utility Cost Test	Total Resource Cost Test	No. of Units	Units of Measure
Residential								
Retail Products								
New Construction	\$753	\$1,388	\$1,781	\$3,044	2.37	2.19	358	Homes
Home Energy Solutions	\$2,439	\$2,463	\$5,305	\$9,134	2.18	3.71	2,110	Homes
HVAC	\$3,269	\$8,548	\$5,087	\$8,794	1.56	1.03	5,075	Units
HES - Income Eligible	\$2,809	\$2,809	\$4,275	\$9,848	1.52	3.51	1,726	Homes
Behavior	\$166	\$166	\$362	\$508	2.18	3.06	16,000	Units
Subtotal: Residential EE Portfolio	\$9,436	\$15,374	\$16,810	\$31,329	1.78	2.04		
Commercial & Industrial								
Energy Conscious Blueprint	\$1,812	\$4,330	\$3,084	\$5,163	1.70	1.19	321	Projects
Energy Opportunities	\$1,188	\$2,775	\$1,906	\$3,395	1.60	1.22	14	Projects
BES	\$532	\$1,077	\$2,079	\$3,184	3.91	2.96	16	Projects
Small Business	\$261	\$520	\$310	\$553	1.19	1.06	148	Projects
Subtotal: C&I EE Portfolio	\$3,793	\$8,701	\$7,379	\$12,295	1.95	1.41		
Subtotal: Other	\$1,864	\$1,864						
TOTAL	\$15,093	\$25,940	\$24,189	\$43,624	1.60	1.68		

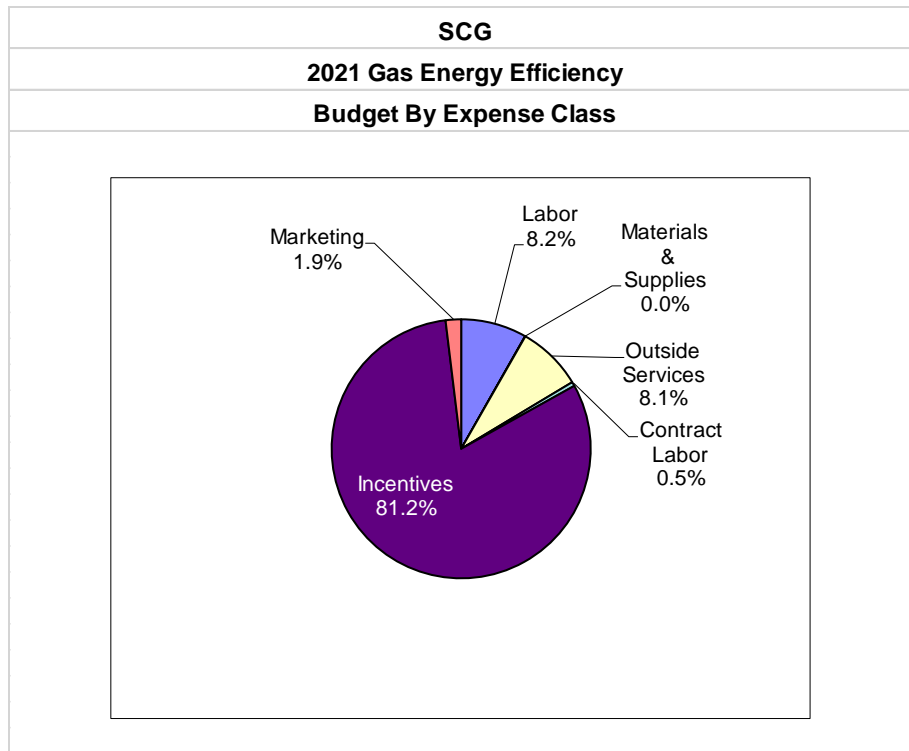
2021 SCG	Gas Savings			Gas Cost Rates				MMBtu Savings				Emissions Savings	
	Annual Savings (ccf)	Lifetime Savings (ccf)	Peak Savings (ccf)	Gas Cost Rate \$/ccf Annual	Gas Cost Ratio \$/LT-ccf	Gas Demand Cost \$/ccf	Gas Demand Cost \$/LT-ccf	Annual MMBtu	Lifetime MMBtu	Cost per Annual MMBtu	Cost per Lifetime MMBtu	Annual Tons CO2	Lifetime Tons CO2
Residential													
Retail Products													
New Construction	113,576	2,839,395	683	\$6.626	\$0.265	\$1,102	\$44	11,687	292,174	\$64	\$3	636	15,902
Home Energy Solutions	283,501	6,184,442	4,883	\$8.602	\$0.394	\$499	\$23	29,172	636,379	\$84	\$4	2,098	45,769
HVAC	296,793	5,917,587	2,740	\$11.015	\$0.552	\$1,193	\$60	30,540	608,920	\$107	\$5	2,196	43,794
HES - Income Eligible	226,821	4,731,483	1,008	\$12.386	\$0.594	\$2,787	\$134	23,340	486,870	\$120	\$6	1,669	34,783
Behavior	106,752	213,504	0	\$1.556	\$0.778			10,985	21,970	\$15	\$8	790	1,580
Subtotal: Residential EE Portfolio	1,027,442	19,886,411	9,314	\$9.184	\$0.474	\$1,013	\$52	105,724	2,046,312	\$89	\$5	7,390	141,827
Commercial & Industrial													
Energy Conscious Blueprint	218,255	3,246,508	1,801	\$8.302	\$0.558	\$1,006	\$68	22,458	334,066	\$81	\$5	1,615	24,026
Energy Opportunities	165,887	2,313,183	1,130	\$7.164	\$0.514	\$1,051	\$75	17,070	238,027	\$70	\$5	1,228	17,119
BES	293,095	1,651,571	196	\$1.814	\$0.322	\$2,717	\$482	30,160	169,947	\$18	\$3	2,169	12,223
Small Business	26,191	378,453	434	\$9.976	\$0.690	\$601	\$42	2,695	38,943	\$97	\$7	194	2,801
Subtotal: C&I EE Portfolio	703,428	7,589,715	3,562	\$5.393	\$0.500	\$1,065	\$99	72,383	780,982	\$52	\$5	5,206	56,168
Subtotal: Other													
TOTAL	1,730,871	27,476,126	12,875	\$8.720	\$0.549	\$1,172	\$74	178,107	2,827,293	\$85	\$5	12,596	197,995

Table C – Southern Connecticut Gas (2021)

**Table C
SCG 2021 Budget Details**

GAS ENERGY EFFICIENCY BUDGET (\$000)	Labor	Materials & Supplies	Outside Services	Contract Labor	Incentives	Marketing	Other	Admin. Expenses	TOTAL
RESIDENTIAL									
Residential New Construction	\$90,885	\$200	\$4,201	\$1,500	\$635,031	\$19,187	\$825	\$675	\$752,505
Home Energy Solutions (HES)	\$169,315	\$700	\$121,632	\$50,000	\$2,034,223	\$59,733	\$1,300	\$1,700	\$2,438,604
HVAC / Water Heating	\$96,565	\$500	\$60,233	\$6,000	\$3,062,151	\$40,629	\$900	\$2,100	\$3,269,078
HES Income Eligible	\$166,990	\$1,000	\$37,119	\$6,000	\$2,550,666	\$43,564	\$875	\$3,125	\$2,809,339
Residential Behavior	\$18,935	\$100	\$147,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$166,138
Subtotal: Residential EE Portfolio	\$542,690	\$2,500	\$370,288	\$63,500	\$8,282,072	\$163,113	\$3,900	\$7,600	\$9,435,663
COMMERCIAL & INDUSTRIAL									
LOST OPPORTUNITY									
Energy Conscious Blueprint	\$86,451	\$1,000	\$11,000	\$3,000	\$1,678,473	\$23,936	\$1,200	\$6,800	\$1,811,859
Subtotal C&I - Lost Opportunity	\$86,451	\$1,000	\$11,000	\$3,000	\$1,678,473	\$23,936	\$1,200	\$6,800	\$1,811,859
LARGE RETROFIT									
Energy Opportunities	\$86,451	\$700	\$9,315	\$4,000	\$1,057,683	\$26,073	\$200	\$4,000	\$1,188,421
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$49,230	\$500	\$105,835	\$1,000	\$363,203	\$10,029	\$100	\$1,900	\$531,797
Subtotal C&I - Lost Opportunity	\$135,681	\$1,200	\$115,150	\$5,000	\$1,420,886	\$36,102	\$300	\$5,900	\$1,720,218
Small Business	\$76,141	\$200	\$2,855	\$2,500	\$172,623	\$4,971	\$100	\$1,900	\$261,290
Subtotal: C&I EE Portfolio	\$298,272	\$2,400	\$129,005	\$10,500	\$3,271,982	\$65,009	\$1,600	\$14,600	\$3,793,368
OTHER - EDUCATION									
Educate the Public	\$10,731	\$415	\$50,323	\$ -	\$ -	\$2,075	\$9,650	\$2,895	\$76,089
Customer Engagement	\$ -	\$ -	\$100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$100,000
Educate the Students	\$8,303	\$374	\$29,512	\$ -	\$ -	\$4,021	\$2,272	\$682	\$45,164
Educate the Workforce	\$4,461	\$208	\$57,638	\$ -	\$ -	\$480	\$3,605	\$1,081	\$67,473
Subtotal: Education	\$23,495	\$997	\$237,473	\$ -	\$ -	\$6,576	\$15,527	\$4,658	\$288,726
OTHER - PROGRAMS/REQUIREMENTS									
Financing Support - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$86,292	\$ -	\$86,292
Financing Support - C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$75,000	\$ -	\$75,000
Research, Development and Demonstration	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$50,000
Subtotal: Programs/Requirements	\$ -	\$ -	\$50,000	\$ -	\$ -	\$ -	\$161,292	\$ -	\$211,292
OTHER - ADMINISTRATIVE & PLANNING									
Administration	\$149,835	\$ -	\$9,384	\$ -	\$ -	\$ -	\$ -	\$ -	\$159,219
Marketing Plan	\$ -	\$ -	\$ -	\$ -	\$ -	\$40,100	\$ -	\$ -	\$40,100
Planning	\$102,465	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$102,465
Evaluation Measurement and Verification	\$ -	\$ -	\$200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$200,000
Evaluation Administrator	\$ -	\$ -	\$21,931	\$ -	\$ -	\$ -	\$ -	\$ -	\$21,931
Information Technology	\$53,268	\$ -	\$87,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$140,590
Energy Efficiency Board Consultants	\$ -	\$ -	\$43,333	\$ -	\$ -	\$ -	\$ -	\$ -	\$43,333
Audits - Financial and Operational	\$ -	\$ -	\$10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$10,000
Performance Management Incentive	\$ -	\$ -	\$0	\$ -	\$ -	\$ -	\$646,714	\$ -	\$646,714
Subtotal: Other	\$305,568	\$ -	\$371,970	\$ -	\$ -	\$40,100	\$646,714	\$ -	\$1,364,352
TOTAL BUDGET	\$1,170,025	\$5,897	\$1,158,736	\$74,000	\$11,554,054	\$274,798	\$829,033	\$26,858	\$15,093,401

Table C Pie Chart – Southern Connecticut Gas (2021)



Expense Classes	Budget	% of Budget
Labor	\$ 1,170,025	7.8%
Materials & Supplies	\$ 5,897	0.0%
Outside Services	\$ 1,158,736	7.7%
Contract Labor	\$ 74,000	0.5%
Incentives	\$ 11,554,054	76.6%
Marketing	\$ 274,798	1.8%
Other	\$ 829,033	5.5%
Administrative Expenses	\$ 26,858	0.2%
Total	\$ 15,093,401	100.00%

Table D – Southern Connecticut Gas Historical and Projected Expenditures (2012-2022)

Table D
SCG Historical and Projected \$ (2012-2022)
Expenditures \$ (000)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal	2022 Goal
RESIDENTIAL											
HES Income Eligible - Weatherization	\$1,766	\$3,816	\$3,541	\$1,898	\$2,731	\$2,804	\$3,217	\$3,050	\$1,681	\$2,809	\$3,060
Home Energy Solutions (HES)	\$1,285	\$1,666	\$3,344	\$3,029	\$1,477	\$1,648	\$1,425	\$1,858	\$2,556	\$2,439	\$1,713
HVAC / Water Heating	\$54	\$39	\$266	\$585	\$1,675	\$1,497	\$2,812	\$3,493	\$3,257	\$3,269	\$3,131
Residential New Construction	\$120	\$596	\$281	\$453	\$623	\$392	(\$256)	\$499	\$463	\$753	\$960
Residential Behavior	\$ -	\$ -	\$114	(\$37)	\$7	\$ -	\$126	\$30	\$151	\$166	\$158
Subtotal: Residential EE Portfolio	\$3,224	\$6,116	\$7,546	\$5,928	\$6,513	\$6,341	\$7,323	\$8,929	\$8,108	\$9,436	\$9,023
COMMERCIAL & INDUSTRIAL											
C&I Lost Opportunity											
Energy Conscious Blueprint	\$1,351	\$697	\$1,483	\$941	\$1,247	\$956	\$760	\$1,226	\$2,157	\$1,812	\$1,735
Total - Lost Opportunity	\$1,351	\$697	\$1,483	\$941	\$1,247	\$956	\$760	\$1,226	\$2,157	\$1,812	\$1,735
C&I LARGE RETROFIT											
Energy Opportunities	\$169	\$835	\$808	\$1,247	\$911	\$1,446	\$1,208	\$734	\$2,033	\$1,188	\$1,143
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$2	(\$20)	\$46	\$134	\$69	\$118	\$130	\$197	\$229	\$532	\$509
Total - C&I Large Retrofit	\$171	\$815	\$854	\$1,381	\$980	\$1,564	\$1,339	\$931	\$2,262	\$1,720	\$1,652
Small Business	\$92	\$92	\$113	\$99	\$241	\$157	\$73	\$217	\$238	\$261	\$250
Subtotal: C&I EE Portfolio	\$1,613	\$1,604	\$2,450	\$2,421	\$2,468	\$2,677	\$2,171	\$2,373	\$4,656	\$3,793	\$3,638
OTHER-EDUCATION											
Educate the Public	\$ -	\$ -	\$ -	\$ -	\$218	\$210	\$68	\$71	\$65	\$76	\$76
Customer Engagement	\$ -	\$ -	\$ -	\$ -	\$67	\$17	\$5	\$0	\$0	\$100	\$100
Educate the Students	\$ -	\$ -	\$ -	\$ -	\$35	\$68	\$26	\$31	\$31	\$45	\$45
Educate the Workforce	\$ -	\$ -	\$ -	\$ -	\$30	\$16	\$13	\$16	\$26	\$67	\$67
Smart Living Center / Science Center	\$ -	\$ -	\$167	\$100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
eeSmarts/K-12 Education	\$ -	\$ -	\$26	\$70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Clean Energy Communities	\$ -	\$22	\$47	\$68	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Education	\$ -	\$22	\$240	\$238	\$350	\$311	\$112	\$117	\$122	\$289	\$289
OTHER-PROGRAMS/REQUIREMENTS											
Financing Support - Residential	\$77	\$79	\$87	\$86	\$77	\$103	\$8	\$82	\$62	\$86	\$86
Financing Support - C&I	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$75	\$75
Research, Development & Demonstration	\$ -	\$86	\$0	\$0	\$8	\$17	\$59	\$38	\$20	\$50	\$50
Institute for Sustainable Energy	\$ -	\$ -	\$37	\$41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
ESPC Project Manager	\$ -	\$ -	\$6	\$3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
C&I Loan Program	\$ -	\$5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal: Programs/Requirements	\$77	\$169	\$130	\$130	\$85	\$120	\$66	\$120	\$82	\$211	\$211
OTHER-ADMINISTRATIVE & PLANNING											
Administration	\$0	\$89	\$127	\$170	\$130	\$172	\$143	\$120	\$81	\$159	\$159
Marketing Plan	\$ -	\$ -	\$97	\$85	\$109	\$73	\$30	\$18	\$9	\$40	\$40
Planning	\$208	\$151	\$99	\$102	\$141	\$169	\$98	\$106	\$114	\$102	\$102
EM&V	\$123	\$24	\$141	\$161	\$200	\$200	\$218	\$218	\$201	\$200	\$200
Evaluation Administrator	\$ -	\$ -	\$26	\$26	\$20	\$20	\$19	\$19	\$22	\$22	\$22
Information Technology	\$32	\$14	\$101	\$210	\$109	\$106	\$140	\$128	\$79	\$141	\$141
EEB Consultants	\$22	\$43	\$24	\$15	\$43	\$43	\$32	\$31	\$43	\$43	\$43
Audits - Financial and Operational	\$ -	\$ -	\$ -	\$ -	\$ -	\$10	\$4	\$10	\$2	\$10	\$10
PMI	\$ -	\$655	\$694	\$596	\$687	\$435	\$709	\$901	\$630	\$647	\$621
Subtotal: Admin. & Planning	\$385	\$977	\$1,310	\$1,365	\$1,439	\$1,228	\$1,582	\$1,550	\$1,181	\$1,436	\$1,339
TOTAL	\$5,300	\$8,888	\$11,676	\$10,082	\$10,855	\$10,677	\$15,120	\$13,089	\$14,149	\$16,751	\$14,500

Table D1 – Southern Connecticut Gas Annual Savings CCF (2012-2021)

Table D1
SCG Historical and Projected Annual ccf (2012-2021)
Annual ccf (000)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	264	635	459	186	205	229	326	316	103	227
Home Energy Solutions (HES)	231	284	501	388	187	168	156	202	186	284
HVAC / Water Heating	-	-	-	-	232	197	407	439	378	297
Residential New Construction	8	19	30	24	53	15	19	26	18	114
Residential Behavior	-	-	-	-	-	-	-	95	-	107
Subtotal: Residential EE Portfolio	509	945	1,035	679	677	609	908	1,078	685	1,027
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	387	290	201	138	411	134	99	212	404	218
Total - Lost Opportunity	387	290	201	138	411	134	99	212	404	218
C&I LARGE RETROFIT										
Energy Opportunities	261	222	508	540	727	438	585	470	646	166
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	36	86	2	5	47	108	243	214	193	293
Total - C&I Large Retrofit	297	308	510	545	774	546	828	684	839	459
Small Business	27	11	37	30	68	42	33	30	22	26
Subtotal: C&I EE Portfolio	711	609	748	713	1,253	722	960	927	1,265	703
TOTAL	1,220	1,554	1,783	1,392	1,930	1,331	1,868	2,005	1,950	1,731

Table D1 – Southern Connecticut Gas Lifetime Savings CCF (2012-2021)

Table D1
SCG Historical and Projected Lifetime ccf (2012-2021)
 Lifetime ccf (000)

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible - Weatherization	4,942	13,533	9,680	3,903	4,333	4,941	7,151	6,558	2,238	4,731
Home Energy Solutions (HES)	4,359	5,613	10,147	7,797	3,970	3,425	3,159	4,089	3,852	6,184
HVAC / Water Heating	111	136	861	1,553	4,619	3,992	8,147	8,455	7,003	5,918
Residential New Construction	188	457	705	593	1,272	370	473	657	447	2,839
Residential Behavior	-	-	-	-	-	-	-	200	-	214
Subtotal: Residential EE Portfolio	9,600	19,739	21,393	13,846	14,194	12,728	18,930	19,959	13,540	19,886
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	5,325	4,484	3,339	2,194	7,539	2,107	1,660	3,006	5,382	3,247
Total - Lost Opportunity	5,325	4,484	3,339	2,194	7,539	2,107	1,660	3,006	5,382	3,247
C&I LARGE RETROFIT										
Energy Opportunities	3,087	2,322	5,158	6,421	7,630	4,445	6,924	4,249	7,402	2,313
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	307	430	10	25	343	559	1,337	1,076	1,103	1,652
Total - C&I Large Retrofit	3,394	2,752	5,168	6,446	7,973	5,004	8,261	5,325	8,505	3,965
Small Business	378	152	408	427	895	438	382	381	280	378
Subtotal: C&I EE Portfolio	9,097	7,388	8,915	9,067	16,407	7,549	10,303	8,712	14,167	7,590
TOTAL	18,697	27,127	30,308	22,913	30,601	20,277	29,233	28,671	27,707	27,476

Table D2 – Southern Connecticut Gas Annual Cost Rates (2012-2021)

Table D2
SCG Historical and Projected Annual Cost Rates (2012-2021)
 Annual \$/ccf

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible – Weatherization	\$ 6.679	\$ 6.009	\$ 7.715	\$10.204	\$13.322	\$12.245	\$ 9.868	\$ 9.652	\$16.316	\$12.386
Home Energy Solutions (HES)	\$ 5.569	\$ 5.866	\$ 6.675	\$ 7.807	\$ 7.898	\$ 9.810	\$ 9.135	\$ 9.197	\$13.743	\$ 8.602
HVAC / Water Heating	\$ -	\$ -	\$ -	\$ -	\$ 7.220	\$ 7.599	\$ 6.909	\$ 7.957	\$ 8.616	\$11.015
Residential New Construction	\$ 15.287	\$ 31.464	\$ 9.449	\$18.875	\$11.755	\$26.133	\$13.451)	\$19.173	\$25.741	\$ 6.626
Residential Behavior	NA	NA	NA	NA	NA	NA	NA	\$ 0.313	NA	\$ 1.556
Subtotal: Residential EE Portfolio	\$ 6.335	\$ 6.473	\$ 7.289	\$ 8.730	\$ 9.620	\$10.412	\$ 8.065	\$ 8.283	\$11.836	\$ 9.184
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$ 3.486	\$ 2.403	\$ 7.378	\$ 6.819	\$ 3.034	\$ 7.134	\$7.676	\$ 5.783	\$ 5.339	\$ 8.302
Total - Lost Opportunity	\$ 3.486	\$ 2.403	\$ 7.378	\$ 6.819	\$ 3.034	\$ 7.134	\$7.676	\$ 5.783	\$ 5.339	\$ 8.302
C&I LARGE RETROFIT										
Energy Opportunities	\$ 0.647	\$ 3.761	\$ 1.591	\$ 2.309	\$ 1.253	\$ 3.301	\$2.065	\$ 1.561	\$ 3.147	\$ 7.164
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 0.057	\$ (0.233)	\$22.277	\$26.800	\$ 1.468	\$ 1.093	\$0.537	\$ 0.920	\$ 1.186	\$ 1.814
Total - C&I Large Retrofit	\$ 0.576	\$ 2.646	\$ 1.675	\$ 2.534	\$ 1.266	\$ 2.864	\$1.617	\$ 1.360	\$ 2.696	\$ 3.748
Small Business	\$ 3.405	\$ 8.364	\$ 3.054	\$ 3.300	\$ 3.544	\$ 3.738	\$2.208	\$ 7.145	\$10.806	\$ 9.976
Subtotal: C&I EE Portfolio	\$ 2.269	\$ 2.634	\$ 3.276	\$ 3.396	\$ 1.970	\$ 3.708	\$2.262	\$ 2.561	\$ 3.681	\$ 5.393

Table D2 – Southern Connecticut Gas Lifetime Cost Rates (2012-2021)

Table D2
SCG Historical and Projected Lifetime Cost Rates
Lifetime \$/ccf

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES Income Eligible – Weatherization	\$ 0.357	\$ 0.282	\$ 0.366	\$ 0.486	\$ 0.630	\$ 0.567	\$ 0.450	\$ 0.465	\$ 0.751	\$ 0.594
Home Energy Solutions (HES)	\$ 0.295	\$ 0.297	\$ 0.330	\$ 0.388	\$ 0.372	\$ 0.481	\$ 0.451	\$ 0.454	\$ 0.664	\$ 0.394
HVAC / Water Heating	\$ 0.482	\$ 0.283	\$ 0.309	\$ 0.377	\$ 0.363	\$ 0.375	\$ 0.345	\$ 0.413	\$ 0.465	\$ 0.552
Residential New Construction	-	-	-	-	-	-	N/A	\$ 0.149	N/A	\$ 0.778
Residential Behavior	\$ 0.638	\$ 1.304	\$ 0.399	\$ 0.764	\$ 0.490	\$ 1.059	\$ (0.540)	\$ 0.759	\$ 1.037	\$ 0.265
Subtotal: Residential EE Portfolio	\$ 0.336	\$ 0.310	\$ 0.353	\$ 0.428	\$ 0.459	\$ 0.498	\$ 0.387	\$ 0.447	\$ 0.599	\$ 0.474
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	\$ 0.254	\$ 0.155	\$ 0.444	\$ 0.429	\$ 0.165	\$ 0.454	\$ 0.458	\$ 0.408	\$ 0.401	\$ 0.558
Total - Lost Opportunity	\$ 0.254	\$ 0.155	\$ 0.444	\$ 0.429	\$ 0.165	\$ 0.454	\$ 0.458	\$ 0.408	\$ 0.401	\$ 0.558
C&I LARGE RETROFIT										
Energy Opportunities	\$ 0.055	\$ 0.360	\$ 0.157	\$ 0.194	\$ 0.119	\$ 0.325	\$ 0.174	\$ 0.173	\$ 0.275	\$ 0.514
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	\$ 0.007	\$ (0.047)	\$ 4.455	\$ 5.360	\$ 0.201	\$ 0.211	\$ 0.098	\$ 0.183	\$ 0.208	\$ 0.322
Total - C&I Large Retrofit	\$ 0.050	\$ 0.296	\$ 0.165	\$ 0.214	\$ 0.123	\$ 0.313	\$ 0.162	\$ 0.175	\$ 0.266	\$ 0.434
Small Business	\$ 0.243	\$ 0.605	\$ 0.277	\$ 0.232	\$ 0.269	\$ 0.358	\$ 0.191	\$ 0.568	\$ 0.849	\$ 0.690
Subtotal: C&I EE Portfolio	\$ 0.177	\$ 0.217	\$ 0.275	\$ 0.267	\$ 0.150	\$ 0.355	\$ 0.211	\$ 0.272	\$ 0.329	\$ 0.500

Table D3 – Southern Connecticut Gas Historical and Projected Units (2012-2021)**Table D3
SCG Historical and Projected Units (2012-2021)**

	2012 Actual	2013 Actual	2014 Actual	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Goal
RESIDENTIAL										
HES-Income Eligible - Weatherization	2,479	3,647	2,395	1,187	1,329	1,319	2,818	5,314	868	1,726
Home Energy Solutions (HES)	2,049	2,619	3,957	3,758	1,783	1,600	1,467	1,729	4,577	2,110
HVAC / Water Heating	80	155	747	1,218	3,099	2,128	5,004	6,777	13,504	5,075
Residential New Construction	40	116	336	54	294	43	136	126	121	358
Residential Behavior	-	-	-	-	-	-	-	14,250		16,000
Subtotal: Residential EE Portfolio	4,648	6,537	7,435	6,217	6,505	5,090	9,425	28,196	19,070	25,269
COMMERCIAL & INDUSTRIAL										
C&I LOST OPPORTUNITY										
Energy Conscious Blueprint	90	100	87	40	67	32	75	223	216	321
Total - Lost Opportunity	90	100	87	40	67	32	75	223	216	321
C&I LARGE RETROFIT										
Energy Opportunities	36	31	40	22	28	18	48	11	47	14
Business & Energy Sustainability (O&M, RCx, BSC, CSP/SEM)	4	3	4	2	9	3	22	10	4	16
Total - C&I Large Retrofit	40	34	44	24	37	21	70	21	51	30
Small Business	27	72	57	28	51	72	62	45	46	148
Subtotal: C&I EE Portfolio	157	206	188	92	155	125	207	289	313	500
TOTAL	4,805	6,743	7,623	6,309	6,660	5,215	9,632	28,485	19,383	25,769

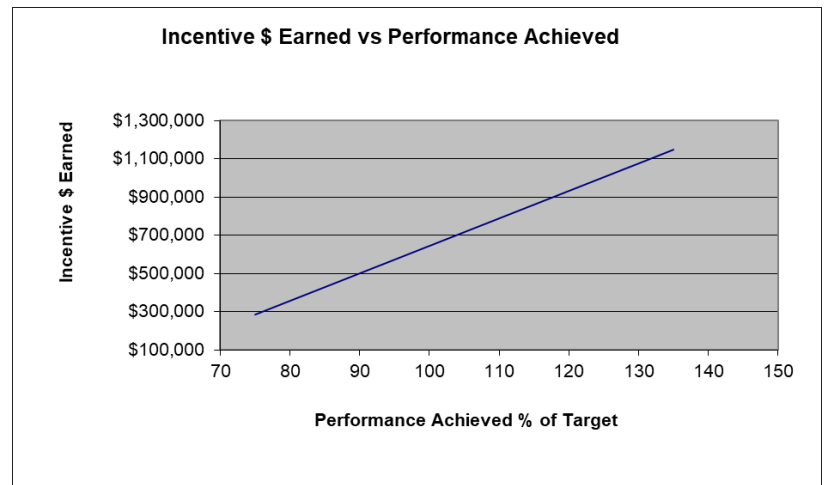
Southern Connecticut Gas PMI (2021)

SOUTHERN CONNECTICUT GAS COMPANY

2021 Management Incentive Performance Indicators and Incentive Matrix

Provided below is the 2021 Incentive Matrix with Performance Indicators. The Utility Performance Incentive is: **\$646,714**. This calculation is based on achieving 100% of all performance targets and earning a target incentive of 4.5% of EE budgets (not including EEB costs, Audit Costs or Management Incentive). Goals will be prorated based on actual over/under spend of budget. The actual incentive earned will be determined by the performance achieved in each of the Incentive Metrics identified below, based on the following Performance Index:

<u>Performance %</u>	<u>Pretax Incentive</u>	<u>Pre-tax Incentive</u>
75	2.0%	\$287,428
85	3.0%	\$431,143
95	4.0%	\$574,857
100	4.5%	\$646,714
105	5.0%	\$718,571
115	6.0%	\$862,285
125	7.0%	\$1,006,000
135	8.0%	\$1,149,714
Total Original Budget*		\$14,371,423



*Does not include Incentive, EEB costs and Audit.

Southern Connecticut Gas PMI (2021) (continued)

SECTOR		Performance Indicators		Incentive Metrics			
Program				Incentive Metric	Target Goal	Weight	Incentive
Residential Program Budgets	\$9,435,663	Lifetime Savings (ccf):		Total Gas Benefit from all Residential programs	Gas Benefit from all Residential programs \$16,809,522	0.1925	\$124,492
		HES Income Eligible	4,731,483				
		Home Energy Solutions (HES)	6,184,442				
		HVAC / Water Heating	5,917,587				
		New Construction	2,839,395				
		Total Lifetime Savings (ccf)	19,886,411				
		Present Value Lifetime Savings (ccf)	\$0.8453				
		Total Residential Gas Benefit:	\$16,809,522				
		Net Residential Gas Benefit:	\$7,373,859		\$7,373,859	0.1925	\$124,492
HES	\$2,438,604	Achieve CCF savings per single-family home. Based on 2020 actuals adjusted to 2021 CT PSD plus 2.0%.		ccf/home	Achieve CCF savings/single-family home	0.060	\$38,803
HES-IE	\$2,809,339	Annual ccf savings		Annual ccf savings	226,821	0.030	\$19,401
C&I Program Budgets	\$3,793,368	Lifetime Savings (ccf):		Total Gas Benefit from all C&I programs	Gas Benefit from all C&I programs \$7,379,049	0.2075	\$134,193
		Energy Conscious Blueprint	3,246,508				
		Energy Opportunities	2,313,183				
		O&M	1,651,571				
		Small Business	378,453				
		Total Lifetime Savings (ccf)	7,589,715				
		Present Value Lifetime Savings (ccf)	\$0.9722				
		Total C&I Gas Benefit:	\$7,379,049				
		Net C&I Gas Benefit:	\$3,585,682				

Southern Connecticut Gas PMI (2021) (continued)

SECTOR		Performance Indicators	Incentive Metrics			
Program			Incentive Metric	Target Goal	Weight	Incentive
Small Business	\$261,290	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 with SEM counting as an end use. Based on 2020 Actual Results plus 5%	% of Gas Projects	% of signed projects	0.050	\$32,336
Energy Blueprint/Energy Opportunities		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 SEM counting as more than one end use. Based on 2020 Actual Results plus 5%.	% of Gas Projects	% of signed projects	0.050	\$32,336
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	0.010	\$6,467
Total Incentive \$ Residential and C&I					1.000	\$646,714