

2024 Commercial & Industrial Energy Efficiency Solutions and Programs

1. Overview.....	2
1.1 What to Look for in 2024	3
1.2 Commercial & Industrial Programs	65
2. Large Commercial and New Construction Program	119
2.1 Offerings	119
2.2 Large C&I New Construction Initiatives	1344 HP
2.3 Customer Eligibility	1443
2.4 Implementation and Delivery	14
2.5 2024 Program Enhancements and Changes	16
2.6 Other Considerations.....	1746
3. Large Commercial Retrofit Program	1746
3.1 Offerings	1746
3.2 Initiatives Primarily Targeting Large Commercial Retrofit	1847
3.3 Eligibility.....	3332
3.4 Implementation and Delivery	3332
3.5 2024 Program Enhancements and Changes	3534
3.6 Other Considerations.....	3835
4. Small Business Direct Install Program.....	3936
4.1 Offerings	3936
4.2 Eligibility.....	3936
4.3 Implementation and Delivery	3937
4.4 2024 Program Enhancements and Changes	4037
5. C&I Multifamily Program	4138
5.1 Offerings	Error! Bookmark not defined,38
5.2 Eligibility.....	Error! Bookmark not defined,38
2024 Program Enhancements and Changes	4138
6. Finance as an Enabling Strategy	4138
6.1 Mechanisms Offered	4239
7. Marketing to C&I Customers	4542
8. Commercial and Industrial Measures and Incentives	4742

1. Overview

~~Rhode Island is a nationally recognized leader in energy efficiency.~~ The primary objective of the Company's Commercial and Industrial (C&I) programs is to drive the implementation of energy efficiency projects that minimize or reduce energy consumption and help Rhode Island businesses, industries, institutions, and government agencies save on their utility bills. Energy efficiency programs also help C&I customers reduce their operations and maintenance (O&M) costs, meet corporate sustainability goals, improve indoor air quality, and protect the environment by reducing greenhouse gas emissions and other air pollutants. The Company's C&I programs offer incentives, rebates, financing, and technical assistance to customers across the state who want to save money and reduce their building's overall energy consumption footprint.

The Company continuously evaluates customer needs and market dynamics to determine if program adjustments and enhancements are warranted and to drive market transformation across multiple end uses. This retrospection allows the Company to develop and evolve program design and efficacy, determine the value and potential of energy efficiency, and secure comprehensive energy savings.

1.1 Market Sector Approach

The state's C&I sector is diverse and complex; therefore, the Company has designed its energy efficiency programs to offer tailored solutions addressing the different subsectors and varying efficiency needs of building types and uses. Over the last decade, the Company has focused on a market sector approach for C&I customers. A customer's efficiency needs are shaped by the strategic and commercial pressures specific to their market sector, industry or communities served. Some C&I customers may need to improve the efficiency of their factory operations to maintain their competitive niche while others need to improve the comfort of customers through the installation of high efficiency heating, cooling, and ventilation (HVAC) systems. The Company offers a wide variety of customized solutions to empower customers to determine what energy efficiency measures or programs are the best fit for their needs. This process engages the C&I customer and often leads to more comprehensive projects with multiple energy efficiency measures.

Large C&I customers are the greatest opportunities for cost-effective savings. The Company operates its C&I programs primarily through an account management approach where each account manager focuses on one or more industry verticals or market sector. By focusing on specific markets ~~sectors and groups of related markets~~, the Company's account manager can identify the correct vertical initiatives ~~with the programs~~ (e.g., Grocery, Restaurant, Industry) that are supported by implementation vendors ~~or and~~ through large-scale agreements, ~~such as the (e.g., Strategic Energy Management Partnerships)~~. These vertical initiatives enable the Company to tailor offerings to meet the specific needs of customers, identify and apply project learnings to customers in similar market sectors and facilities, and engage

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Commented [CJ1]: Supportive of including program recognition where appropriate, but a standalone statement to start the C&I attachment that doesn't say anything about C&I programs specifically seems out of place.

Commented [RIE1R2]: Although this comment does not address any substantive aspect of the Plan, the text has been removed.

Commented [CJ2]: Terminology, aren't the items in parentheses called initiatives?

Commented [DE2R2]: Updated!

customers in energy efficiency. This custom-tailored approach drives program participation and establishes a trusted relationship between the Company and customers.

~~Small businesses, industries and institutions are served primarily through the Small Business Direct Install Program. Additionally, the Company offers a Small Business Direct Install Program that provides~~ The turn-key services, program offers audits, installation services, enhanced incentives and financing through the Company's implementation vendor or an alternate vendor of the customer's choice. The installation of energy efficiency measures helps lower ~~smaller C&I~~ customers' energy bills while improving the ambiance, comfort and operations of the establishment.

Commented [DM3]: Industries are served through SBDI?

Commented [RIE3R2]: Updated

The Company designed its Upstream Program to help all C&I customers, regardless of size, purchase qualifying high efficiency HVAC, hot water, lighting, and commercial kitchen equipment. The program subsidizes measures to encourage distributors to stock, promote and sell high efficiency equipment.

This attachment provides detailed descriptions regarding the Company's C&I programs and how the Company plans to transform the 2024 Annual Plan's high-level goals and strategies into specific, concrete actions and activities for each C&I program. The Company provides these details for stakeholders, regulators and other interested parties so they can see the complex framework needed to integrate program implementation, incentive design, new standards and emerging technologies into flexible, innovative programs tailored to specific customer and building types.

1.2 What to Look for in 2024

The Company plans to make a number of modifications and enhancements to the C&I programs during the 2024 program year. Some of these changes will affect how the Company engages customers in energy efficiency while other modifications focus on providing more innovative efficiency ~~measures and~~ services to C&I customers to capture ~~all~~ energy-saving opportunities. Intertwined, ~~all~~ the modifications and enhancements are designed to engage C&I customers and drive energy efficiency across Rhode Island. In 2024, the Company plans to implement the following strategies for its C&I programs:

- Deploy a data-driven approach to increasing customer participation in the C&I sector.
- ~~Deploy a data-driven approach to increasing customer participation in the C&I sector by~~ analyzing ~~Analyze~~ customer consumption data (e.g., kilowatt-hours, ~~peak load and~~ therms, load distribution, and peak load) and past energy efficiency participation to better target customers, especially nonparticipants.
- Expand the reach of the Strategic Energy Management Planning Initiative to support the increasing number of customers with climate and sustainability goals.

- Support more advanced system controls, energy management systems and building analytics through retro-commissioning, monitoring-based commissioning, equipment right sizing and the Upstream Initiatives.
- Develop prescriptive and custom offerings to promote commercial weatherization and greenhouse gas emission reductions through the installation of energy recovery ventilators, upstream heat pumps, and measures to prevent gas and refrigerant leak reductions.
- Work with the Office of Energy Resources (OER) to better understand electrification efforts funded through federal and state programs.
- Promote the Main Streets Initiative in Environmental Justice Focus Areas.¹
- Enhance continuing education for building managers and facilities operators.

The implementation of these strategies will support continued innovation and accelerate the efficiency of Rhode Island businesses, industries, institutions and government agencies. These actions and activities ~~and~~ support the key strategic priorities set out in the Three-Year Plan and Annual Plan including increased customer outreach, programs delivered equitably, enhanced financing options, increased workforce capacity building, and targeted comprehensive efficiency upgrades to increase program participation. These strategies and planned activities reflect ideas and insights identified by the Company in collaboration with the Energy Efficiency & Resource Management Council (EERMC) and its consulting team, the Office of Energy Resources (OER), and the Division of Public Utilities and Carriers (the Division), as well as customers, program vendors, and trade allies.

A top priority for the Company is to develop an equity-driven approach to the design, implementation and marketing of C&I programs. To help ensure programs are delivered equitably to C&I customers across the state, the Company will hire multilingual small business auditors, conduct participant surveys in multiple languages, promote equitable hiring practices through vendor agreements, and focus on reaching small C&I customers with a specific focus on woman and minority-owned enterprises. It will also leverage the recommendations and findings from the most recent Small Business Process Evaluation. The Company will utilize the Main Streets Initiative to promote the Small Business Direct Install (Small Business) Program to C&I customers located in Environmental Justice Focus Areas. The

¹ The Rhode Island Department of Environmental Management defines an Environmental Justice Focus Area" as a census tract that meets one or more of the following criteria: (1) annual median household income is not more than sixty-five percent (65%) of the statewide annual median household income, (2) minority population is equal to or greater than forty percent (40%) of the population, (3) twenty-five percent (25%) or more of the households lack English language proficiency, or (4) minorities comprise twenty-five percent (25%) or more of the population and the annual median household income of the municipality in which the proposed area does not exceed one hundred fifty percent (150%) of the statewide annual median household income.

Commented [AC4]: Should mention that the Company will leverage other recommendations and findings from the Small Business Process Evaluation.

Commented [RIE4R2]: Addressed.

Commented [CJ5]: How will the Company determine whether or not these efforts will result in an equitable-driven approach? See comments on individual items.

Commented [RIE5R2]: Noted - addressed in individual items

Commented [CJ6]: Does the Company know how many multilingual small biz auditors it currently has participating in the program? Does the Company have a goal for how many auditors it plans to hire in 2024, and beyond? Are goals around that grounded in the need? Hypothetical example: If the Company has 1 auditor and hires and retains 2 more, is that a success if 10 auditors is what is needed to equitably deliver the small biz program?

Commented [RIE6R2]: Due to the current difficulties staffing in general we do not have multilingual small biz auditors, we would love to hire them, but we have not found it easy to staff in general. Rise has had an open auditor position for almost 5 months, with very few candidates who applied. Typically, we find that businesses will have a person on site that speaks both Spanish and English to help with interpreting, if there isn't we have access to online resources to help interpret and a Brand Manager at the RISE office who is multi-lingual.

Commented [CJ7]: How many and which languages?

Commented [RIE7R2]: English, with online tools or non-auditor staff can be utilized when needed.

Commented [CJ8]: What kind of agreements are being made with vendors currently? Is promoting those practices enough? Or do we need to actually see evidence that those vendors are following through with equitable hiring practices?

Commented [RIE8R2]: Good question. We will revisit existing vendor contracts and review hiring provisions to evaluate.

Commented [CJ9]: How will the Company go about focusing on woman and minority-owned enterprises?

Commented [RIE9R2]: Please see "MultiLingual Outreach" section on p.38 for engagement efforts and partnerships with WME

Company continues to monitor the Equity Working Group's progress and, where appropriate and prudent, will implement the group's recommendations within the C&I programs.

On January 27, 2021, President Joseph Biden issued [Executive Order 14008](#) setting a goal that a minimum of 40 percent of the overall benefits of federal investments must flow to disadvantaged communities that are marginalized, underserved and overburdened by pollution. As federal funding for clean energy projects flows to state energy offices, it is critical that the Rhode Island energy efficiency programs are designed to equitably serve all customers and align with the [Justice40 Initiative](#). This will ensure disadvantaged and historically marginalized communities are able to access and benefit from federal funding.

A key component to increasing program participation is to ensure there is a robust and skilled workforce to identify and implement energy efficiency projects. To build workforce capacity in 2024, the Company plans to collaborate and partner with educational and job training entities that have the existing resources to address workforce development issues [as identified in the Workforce Needs Assessment Study referenced in the Main Text](#).² In addition to these entities, the Company acknowledges that it will need additional public and private support to build capacity and plans to identify and partner with additional groups over the 2024-2026 term. The Company plans to target increased capacity to support Zero Net Energy buildings, Building Operator Certification, codes and standards compliance training and increased C&I weatherization projects. In 2024, the Company plans to sponsor training sessions to [retain and upskill the workforce](#) in supporting high-performance buildings, including trainings on advanced HVAC and lighting controls. Workforce development efforts are further described in the Cross-Cutting Programs section [of the Main Text](#).

~~The Company's C&I programs are implemented in a dynamic environment and the planning process must account for a variety of increasing economic pressures including continuing concerns regarding supply chain disruptions, workforce shortages and inflation. Inflation decreases the portion of customers' project costs covered by C&I program incentives and lengthens project payback periods. The cost of all materials has increased and customers who want to see a quick return on their investments are more likely to defer capital expenditures for efficiency projects. Interruptions in equipment delivery timelines and workforce shortages also continue to cause extensive delays. Throughout 2023, the Company saw several historically active customers scale back their spending on energy efficiency measures and it is expected that this issue will continue into this next program year.~~

² -This is in alignment with the LCP standard, which states: "The distribution company shall include wherever possible and practical, partnerships with existing educational and job training entities."

Commented [CJ10]: This exact same text is in the Residential Attachment. Might this be a passage that makes more sense to include in the Main Text?

Commented [RIE10R2]: The Company has included this text in the C&I section AND referenced in this attachment to ensure consistency.

Commented [AC11]: Need to describe these issues in detail in order to justify and secure funding

Commented [RIE11R2]: Updated

Commented [AC12]: Might be worth mentioning workforce retention. Investing in upskilling and training will be less effective if there are retention issues

Commented [BE12R2]: added

Commented [CJ13]: This is in reference to the Main Text, there is no Cross-Cutting Program section of the C&I attachment, unless this is referring to the Cross Program attachment (which I don't think it is). Assuming this is referring to the Cross Cutting Programs of the Main Text, please add clarifying language to indicate as such.

Commented [BE13R2]: added

Commented [AC14]: See prior comment and more detailed comments in the Cross-Cutting Programs section

Commented [RIE14R2]: Noted

Commented [DE14R3]: @Brett Feldman (RI Energy)

Commented [AC15]: Some incentives automatically adjust with incentives at least up to a certain degree (e.g. SBDI) so this is not always the case. Shouldn't programs revisit incentive levels if there are substantial economic impacts?

Commented [DE15R2]: This section has been removed

Commented [AC16]: How was this assessed? Just want to confirm that scaling back top-line spending on EE measures isn't the basis. If so, it makes sense if customers have previously participated and installed equipment is still functional

Commented [DE16R2]: This section has been removed as we are starting to see customer participation and involvement return to near pre-pandemic norms.

Commented [CJ17]: Does scale back mean customers are completely stopping investment in EE or they are just spending less, or a combination of both?

Assuming at least some percent of those active customers who are scaling back but still participating just with fewer projects, what is the Company doing to ensure that th... [1]

Commented [DE17R2]: This section has been removed.

1.3 Commercial & Industrial Programs

In 2024, the Company will implement four C&I energy efficiency programs as shown in Table 1³. These programs are designed to serve a number of different market sectors, customers and building types.

Table 1. Commercial and Industrial Programs

Large Commercial and Industrial New Construction
Large Commercial Retrofit
Small Business Direct Install
C&I Multifamily Program

All C&I customers are eligible to participate in the Large Commercial and Industrial New Construction Program (New Construction Program) and Large Commercial Retrofit Program (Retrofit Program). However, eligibility for the Small Business Program is limited to customers that consume less than 1.5 million kilowatt-hours (kWh) per year. In cases where a small C&I customer's project demands larger or more complex efficiency measures than offered through the Small Business Program, the customer can participate in the New Construction Program or Retrofit Program. Table 2 provides a summary of the programs.

Table 2. 2024 Commercial and Industrial Programs

Program Name	Program Description
<u>Large Commercial and Industrial New Construction and Building Energy Code Support</u> <u>Funded by Electric and Natural Gas</u>	<p>The New Construction Program offers financial incentives and technical assistance to customers, design professionals, developers, and vendors to encourage energy efficiency in new construction, major renovation, planned replacement of aging equipment, and replacement of failed equipment projects.</p> <p>Through the program, design professionals are eligible to receive technical assistance to conduct energy modeling and analysis for new construction projects. Owner's design teams are offered incentives for their time and effort to meet program requirements. The program promotes and incentivizes the installation of high efficiency equipment in existing facilities during remodeling projects or for equipment failure and replacement. Since customers are more likely to install energy-efficient equipment at the time of construction or equipment replacement, the program offers incentives to ensure customers make the investment immediately rather than doing</p>

³ The ConnectedSolutions program is no longer being reported under the Energy Efficiency portfolio; it is anticipated that it will be part of the System Reliability Procurement filing.

Commented [TE18]: From the C-Team "Only two references to the Market Potential Study Refresh in detailed C&I program content. – Energy Management Systems referenced as high-impact measure, but **other specific opportunities to increase savings** not addressed (e.g., displacement of Room Air Conditioners and Electric Resistance Space & Water Heating with Heat-Pump technology)." Is there any way to sprinkle in more about the MPS and why certain measures were pursued (or not)?

Commented [RIE18R2]: Updated

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Commented [AC19]: Given that this is an expansion above the current 1.0M kWh threshold, please include the number of additional accounts that will be newly eligible and comment on the anticipated impacts. One unintended consequence could be that vendors focus on these mid-sized businesses to drive savings instead of underserved microbusinesses

Commented [RIE19R2]: We are looking into the number of accounts affected, however the decision to increase the threshold from 1.0 to 1.5 mil kWh was made after a saturation analysis was completed and identified that particular participation range as the lowest among all C&I customers. The decision to move them to the Small Biz program is to see if we can see an increase in program participation from these customers. We do not believe this change will have any effect on microbusinesses ability to participate in the program.

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Commented [AC20]: Nice formatting update to these tables

Commented [RIE20R2]: Thanks for the comment Adrian.

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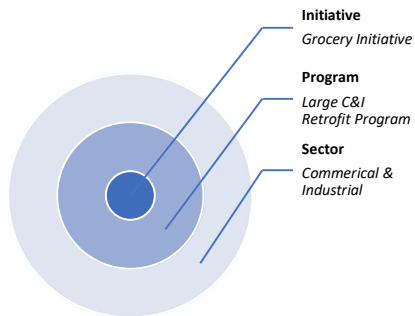
Program Name	Program Description
<p><u>Large Commercial and Industrial Retrofit</u> <u>Funded by Electric and Natural Gas</u></p>	<p><u>so at a greater cost later. The program also offers operations verification or quality assurance services to ensure that installed equipment and systems operate as intended.</u></p> <p><u>The program supports the State’s Zero Energy Building goals through engagement and in developing future offerings. The program promotes compliance with the building energy code and increasing the use of the Stretch Code to support the State’s goals and objectives. Technical assistance is provided for advancing the development and adoption of minimum efficiency standards for appliances and equipment.</u></p> <p><u>All commercial, industrial and institutional customers are eligible to participate in the Retrofit Program. The program incentivizes the replacement of existing equipment and systems with high efficiency alternatives such as lighting, HVAC systems, motors, thermal envelope measures and custom measures in existing buildings. Technical assistance is offered to customers to help them identify energy-saving opportunities.</u></p> <p><u>The program’s incentives help C&I customers in defraying part of the material and labor costs associated with the installation of energy efficiency measures. In addition, the Company offers education and training, such as the Builder Operator Certification training, to support the adoption of energy-efficient equipment and practices.</u></p>
<p><u>Small Business Direct Install</u> <u>Funded by Electric and Natural Gas</u></p>	<p><u>The Small Business Program is a retrofit offering that provides turn-key efficiency solutions to customers who use less than 1.5 million kWh per year. Through the program, a free on-site energy assessment is performed, and customers receive a customized report detailing recommended energy-efficient improvements.</u></p> <p><u>From local pizzerias to small convenience stores, the Small Business Program serves small businesses of all customer types, buildings and sizes. The program pays up to 70 percent of installation and equipment costs. Provided funds are available, customers can finance the remaining costs of the project for up to 60 months (typically 24) interest free on their electric bill using the Small Business Revolving Loan Fund.</u></p>
<p><u>Commercial and Industrial Multifamily</u> <u>Funded by Natural Gas</u></p>	<p><u>The C&I Multifamily Program provides comprehensive efficiency services for market-rate multifamily customers who reside in buildings with 5+ dwelling units. These coordinated services include energy assessments and incentives for weatherization and the replacement of heating and domestic hot water equipment and systems. The program’s services are offered for all types of multifamily properties.</u></p> <p><u>To streamline the delivery of program services, the Company designates a primary point of contact for the multifamily property who will manage and coordinate the services offered. The measures and services are offered through the Company’s existing Energy Efficiency Portfolio of C&I programs (C&I Retrofit) and Residential</u></p>

Program Name	Program Description
	programs (EnergyWise, Income Eligible, Residential New Construction and ENERGY STAR® HVAC).

The Company’s market sector approach is reflected in theis four C&I programs. Within a given program, there are one or more vertical initiatives that are designed to deliver a custom-tailored solution or targeted approach to a particular market sector, customer or building type. The Company defines initiatives as a go-to-market strategy within a C&I program that promotes a subset of energy efficiency measures or services within the program and targets a certain market segment. For example, the Retrofit Program has a Grocery Initiative and Industrial Initiative that have identified particular market pressures, energy consumption patterns and energy-saving opportunities for these market segments.

These customized initiatives allow the Company to more effectively and efficiently secure savings from target customers. Please note that estimated energy savings, program budgets and participants for each initiative are included in the program-level totals. All initiatives support both electric and natural gas measures, unless otherwise noted or self-evident (i.e., lighting initiatives only cover electric measures).

Figure 1. Relationship between Programs and Initiatives



1.4 -Program Description Structure

In order to streamline review of program information in the Annual Plan, the Company has adopted the following structure for each of the C&I programs:

- a. Description of offering,

- 1. Overview

- b. Eligibility criteria,
- c. Delivery,
- d. Changes for 2024, and
- e. Other considerations/research.

Enabling strategies for increased program participation, improved customer experience and efficient program delivery are detailed in the Financing and Marketing sections. Workforce development is addressed in the main text and in the Cross-Cutting Programs section. A list of measures and incentives can be found at the end of this Attachment. In 2024, the Company plans to continue to engage in pilots, demonstrations, and assessments (see Attachment 8 for a detailed scope and list for each pilot, demonstration, and assessment proposed for the 2024 Annual Plan). Financial mechanisms structures are described in Section 6 and in [Table 3](#) below.

[Table 2. 2024 Commercial and Industrial Programs](#)

Program Name	Program Description
<p>Large Commercial and Industrial New Construction and Building Energy Code Support</p> <p>Funded by Electric and Natural Gas</p>	<p>The New Construction Program offers financial incentives and technical assistance to customers, design professionals, developers, and vendors to encourage energy efficiency in new construction, major renovation, planned replacement of aging equipment, and replacement of failed equipment projects. C&I customers with an annual electric consumption greater than 1 million kWh per year are eligible.</p> <p>Through the program, design professionals are eligible to receive technical assistance to conduct energy modeling and analysis for new construction projects. Owner's design teams are offered incentives for their time and effort to meet program requirements. The program promotes and incentivizes the installation of high efficiency equipment in existing facilities during remodeling projects or for equipment failure and replacement. Since customers are more likely to install energy-efficient equipment at the time of construction or equipment replacement, the program offers incentives to ensure customers make the investment immediately rather than doing so at a greater cost later. The program also offers operations verification or quality assurance services to ensure that installed equipment and systems operate as intended.</p> <p>The program supports the State's Zero Energy Building goals through engagement and in developing future offerings. The program promotes compliance with the building energy code and increasing the use of the Stretch Code to support the State's goals and objectives. Technical assistance is provided for advancing the development and adoption of minimum efficiency standards for appliances and equipment.</p>

Commented [CJ21]: Please ensure that any C&I PDAs are described in detail in that attachment AND referenced in this attachment to ensure consistency.

Commented [RIE21R2]: Thanks for the note on consistency.

Commented [AC22]: Nice formatting update to these tables

Commented [RIE22R2]: Thanks for the comment Adrian.

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Program Name	Program Description
<p>Large Commercial and Industrial Retrofit <i>Funded by Electric and Natural Gas</i></p>	<p>All commercial, industrial and institutional customers are eligible to participate in the Retrofit Program. The program incentivizes the replacement of existing equipment and systems with high efficiency alternatives such as lighting, HVAC systems, motors, thermal envelope measures and custom measures in existing buildings. Technical assistance is offered to customers to help them identify energy saving opportunities.</p> <p>The program's incentives help C&I customers in defraying part of the material and labor costs associated with the installation of energy efficiency measures. In addition, the Company offers education and training, such as the Builder Operator Certification training, to support the adoption of energy efficient equipment and practices.</p>
<p>Small Business Direct Install <i>Funded by Electric and Natural Gas</i></p>	<p>The Small Business Program is a retrofit offering that provides turn-key efficiency solutions to customers who use less than 1.5 million kWh per year. Through the program, a free on-site energy assessment is performed, and customers receive a customized report detailing recommended energy efficient improvements.</p> <p>From local pizzerias to small convenience stores, the Small Business Program serves mall businesses of all customer types, buildings and sizes. The program pays up to 70 percent of installation and equipment costs. Provided funds are available, customers can finance the remaining costs of the project for up to 60 months (typically 24) interest free on their electric bill using the Small Business Revolving Loan Fund.</p>
<p>Commercial and Industrial Multifamily <i>Funded by Natural Gas</i></p>	<p>The C&I Multifamily Program provides comprehensive efficiency services for market-rate multifamily customers who reside in buildings with 5+ dwelling units. These coordinated services include energy assessments and incentives for weatherization and the replacement of heating and domestic hot water equipment and systems. The program's services are offered for all types of multifamily properties.</p> <p>To streamline the delivery of program services, the Company designates a primary point of contact for the multifamily property who will manage and coordinate the services offered. The measures and services are offered through the Company's existing Energy Efficiency Portfolio of C&I programs (C&I Retrofit) and Residential programs (EnergyWise, Income Eligible, Residential New Construction and ENERGY STAR® HVAC).</p>

Table 3. Financial Mechanisms Structure

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Mechanism	Description
Customer type	This section highlights the customer consumption in kWh or customer type for which the mechanism is best suited
Loan size	Shows maximum loan size
Maximum Tenor	Shows the maximum length of time (term) for which a customer can borrow funds
Loan volume	Shows the dollar volume of loans outstanding or the range of funds previously borrowed (or both)
Benefits to customer	Describes the benefits of a mechanism to a customer
Limitations	Describes the limitations of a mechanism to a customer
2024 Actions	This area is included for the Efficient Buildings Fund and C-PACE (Commercial Property Assessed Clean Energy) as the Company is currently working with the Rhode Island Infrastructure Bank and other stakeholders on integrating these mechanisms
More Information	This area describes where more information can be found regarding the mechanism, such as numerical tables. This area may include additional information such as justifications for On-Bill Refinancing fund injections (natural gas) or On-Bill refinancing rightsizing (electric)
Relevant Notes	This area contains note and will vary by mechanism

2. Large Commercial and New Construction Program

2.1 Offerings

The New Construction Program offers incentives and technical assistance to promote and support high performance building design, building operation and equipment selection. The incentives and technical services offered are based on the projected energy savings performance of the building and are designed to encourage design teams, building owners and developers to build beyond the current Rhode Island program energy baseline. The technical assistance provided by the program varies from simple plan review and efficiency upgrade recommendations to complete technical blueprint reviews. Additionally, the program offers incentives to building owners and design teams for Zero Net Energy certification and verification and post-occupancy verification of energy savings.

The program incentivizes both new equipment at existing sites and new construction and major renovation projects. Section 2.23 describes the baselines and eligibility guidelines for new equipment.

Please note that though the C&I Retrofit initiatives apply to new equipment too, the savings and budgets for these retrofit measures are part of the New Construction Program.

In 2024, the Company will continue to offer two pathways for ground-up new construction or major renovation projects:

- Pathway 1: Energy Use Intensity / Zero Net Energy Ready
- Pathway 2: Streamlined / Systems

2.1.1 Pathway 1: Energy Use Intensity / Zero Net Energy Ready

This pathway focuses on high efficiency design as well as post-occupancy energy use intensity (EUI). EUI measures the total annual energy consumption (measured in kBtu) per square foot throughout a whole building, and a lower EUI (e.g. a high-efficiency building will have a low EUI, whereas an inefficient building will have a high EUI) means the building is more efficient. This pathway is being made offering is available to buildings 20,000 square feet or greater whose design teams and building owners engage with the Company early in the schematic design and development process. For this pathway, the Company has developed specific EUI targets for several market sectors including libraries, offices, public safety facilities and schools (elementary and high school). The specific EUI targets help to benchmark buildings with similar end-uses, systems, and equipment. For other building types, a site-specific EUI category will be available to ensure that any building type can participate in this pathway.

For Pathway 1, the Company has established EUI ranges for both Tier 1 and Tier 2 buildings. Tier 1 buildings are designed to achieve higher efficiency and are considered Net Zero Energy Ready, while Tier 2 includes high efficiency buildings that are designed to achieve savings relative to energy code and industry standard practice. By offering a range of EUIs rather than one specific target, the Company can encourage a wider range of building types to participate in Pathway 1. The pathway encourages additional savings by offering higher incentives for buildings that reach below the Tier 1 EUI targets. For example, a building with a Tier 1 EUI target of 30 will receive additional incentives if they realize an EUI of 25.

Pathway 1 offers comprehensive technical assistance and financial incentives for Zero Net Energy, Zero Net Energy ready and very low EUI projects. A Zero Net Energy building is an extremely energy-efficient building designed and operated to consume only as much energy as it produces annually. A Zero Net Energy Ready is defined as a building that could offset most or all the buildings annual energy use through a renewable energy system. And, as mentioned above, Energy Use Intensity (EUI) is the total energy use measured in kBtu per a square foot. This pathway offers an optional verification incentive to measure building EUI post occupancy.

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Commented [DM23]: This is a confusing sentence. Is this in reference to time of failure replacements? Why are retrofit savings and budgets associated with the NC program?

Commented [RIE23R2]: Removed

Commented [CJ24]: This is confusing. Why can't new equipment at existing sites that aren't in the process of a major renovation go through the Retrofit or Small Biz program? Doesn't this mean that an existing customer might have to navigate multiple programs and therefore make it a bit more complex for them to participate?

If there is a practical reason why certain select equipment being incentivized for existing buildings CAN'T go through the Retrofit/Small Biz programs, then that should be described in a bit more detail so readers can understand why it is this way.

Commented [DE24R2]: This section has been updated

Commented [AC25]: Assume that this is the full list of building types for which there are specific EUI targets? If not, please list them all

Commented [DE25R2]: If the building type is not listed, the Company will make available a specific EUI category to fulfill the customers building requirement.

Commented [CJ26]: Which Tier?

Commented [DE26R2]: addressed

Commented [CJ27]: What are the units of the EUI in this example? Understand that EUI is measured in total annual energy consumption per sq. ft., but what are the units?

Commented [DE27R2]: Additional text has been added to provide clarity on the units (kBtu and sqft)

Commented [CJ28]: This is more or less defining Zero Net Energy building in this context. Can definitions or descriptions of Zero Net Energy Ready and Very Low EUI projects be added so reader can differentiate between the three?

Commented [DE28R2]: Explanations and definitions for Net Zero Ready and EUI were added. Net Zero was already defined in the text.

2.1.2 Pathway 2: Streamlined/Systems

This pathway is designed for smaller and simpler building designs and offers a variety of incentives and technical assistance services. The offering is available to buildings 20,000 square feet or greater regardless of when the design teams and building owners engage the Company. The program process requirements for this pathway are streamlined from the required documents to the technical assistance procedures. Pathway 2 has streamlined program process requirements, such as less stringent documentation guidelines and technical assistance procedures. This streamlined offering encourages increased participation for simpler building designs.

Pathway 2 provides incentives based on individual energy-saving measures implemented and the Company utilizes a spreadsheet analysis tool to estimate energy savings and incentives early in the project. This pathway is especially appropriate for major renovation projects, such as tenant fit outs, and for customers who lack the resources or time to pursue an EUI-based approach.

Additionally, prescriptive and upstream rebates for installing energy efficient equipment and measures will be made available to buildings less than 20,000 square feet.

2.2 Large C&I New Construction Initiatives

2.2.1 Upstream Initiative

When “upstream” is referenced, the Company is referring to the practice of offering an incentive directly to a manufacturer or distributor of efficient equipment rather than offering an incentive directly to the customer through an application form and process after the sales transaction has been made. This allows manufacturers and distributors to sell the product for a lower price and makes the efficient option more appealing to a potential customer. For customers, the Upstream Initiative offers them the ability to purchase high efficiency equipment without the burden of paperwork or waiting for reimbursement. The following Upstream Initiatives are available to all C&I customers.

- **Upstream HVAC Initiative.** This initiative offers discounted premium efficiency HVAC equipment and controls at the point of sale at qualified distributors including air-cooled air conditioning and heat pumps systems, water-cooled air conditioning and heat pumps.
- **Upstream Gas Initiative.** This initiative offers discounted premium efficiency water heating equipment at the point of sale through qualified distributors. In 2024, as in past years, the initiative will include water heaters (indirect and on-demand), water heating boilers and condominium water heaters.
- **Upstream Kitchen Equipment Initiative.** This initiative offers discounted premium efficiency electric and natural gas kitchen equipment at the point of sale at qualified distributors. The

Commented [DM29]: What is the pathway for < 20,000 square feet? Upstream only? As currently written, it appears that there is no pathway for small NC.

Commented [DE29R2]: Updated to include available pathways for buildings <20,000sqft

Commented [DM30]: The eligibility criteria is variable and inconsistent. Earlier in the plan it says all customers are eligible, Table 2 says minimum 1 million kWh, while pathways 1 and 2 say minimum 20,000 sf.

Commented [DE30R2]: Updated!

Commented [CJ31]: Is this only a Company operated tool, or is it something that customers can use on their own? Wondering if a customer facing tool that the Company makes publicly available might be useful.

Commented [DE31R2]: This is something the Company could consider during program year 2024, but given the timing, the Company would like additional time to consider any unintended consequences that may be associated with making the tool publicly available (e.g. the first that comes to mind is user error that may lead to discrepancies in savings or incentive totals).

Commented [CJ32]: Does this mean that the Company is, for the first time, including super easy to access upstream incentives on new gas hot water equipment? I don't think the Council would be supportive of this.

Commented [DE32R2]: No. The Company has offered upstream incentive on new gas hot water equipment in past plans. The Company remains open to feasible technological alternative for C&I customer, should you be made aware of any, please explain what those technologies are, and how they can be scaled. If other PA have found acceptable substitute technologies for large C&I customer, please notify us! We'd love to hear about it. Thank you.

Company currently offers more than nine different types of energy-efficient cooking equipment across both fuels.

- **Upstream Lighting Initiative.** This initiative is primarily focused on Retrofit projects and offers discounted luminaires, luminaires with controls, lamps, and controls at the point of sale at qualified distributors.

All Upstream initiatives follow a similar implementation and delivery process. Distributors sell products directly to consumers or relevant intermediaries and provide discounts at the point of sale. The distributor then submits data on the purchase and the Company pays the incentive to the distributor and conducts quality control visits for a percentage of installations. The Company collaborates with qualified distributors to target market efforts to relevant customers.

Commented [CJ33]: Are these conducted for all instances, or just a percentage?

Commented [DE33R2]: Percentage, as is customary

2.2.2 Customer Eligibility

The New Construction Program is divided into two main categories to address new construction target markets:

- **New Buildings, Additions, Major Renovations and Tenant Fit-Ups Pathway.** This category pathway is designed for customers that are pursuing ground up new construction or major renovation projects. These types of projects traditionally involve some level of design and are governed by building and energy codes.
- **New Equipment and End-of-Life Replacements Pathway.** This pathway-category is designed for customers that are purchasing new energy consuming equipment or replacing equipment that has reached the end of its useful life. Customers are incentivized to purchase and install energy-efficient equipment. Typically, there is no design component to these projects. Baseline energy use is considered to be the energy code or industry standard practice where applicable and energy savings are calculated using the baseline. If equipment has reached the end of its useful life, this pathway calculates energy savings from new equipment against the current codes and standards baselines (instead of against the old equipment). This pathway works similarly to the "systems approach" described below, whether through prescriptive or custom pathways.

Commented [DM34]: It's confusing to refer to these two "pathways" when the plan earlier defined entirely different pathways 1 and 2. Are pathways 1 and 2 a subset of this one? A diagram might be helpful showing new construction (with pathways 1 and 2) and equipment replacements (with upstream, prescriptive, custom).

Commented [DE34R2]: Thanks, Dan. I agree, the word choice was confusing. We have updated the text to hopefully eliminate that confusion.

Commented [TE35]: @Daniel Tukey (RI Energy) From the C-Team: "Plan Narrative suggests that IECC 2024 will be assumed baseline, but industry standard practice should inform baseline if higher than code." Any thoughts on this one?

Commented [DE35R2]: The Company's practice is to not update a new construction baseline building code mid-program-year, and so the final 2024 IECC will be used to update baseline assumptions for the 2025 program year. The Company will also consider specific ISP adoption during program year 2024, after the release of the 2024 IECC.

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2.2.3 Implementation and Delivery

As referenced in Section 2.1, the New Construction Program offers two pathways for ground-up new construction or major renovation projects. The Company also offers additional enhancements, with the goal of improving the customer experience and in turn driving repeat participation from customers and design teams.

2.2.3.1 Pathway 1: Energy Use Intensity / Zero Net Energy Ready

For Pathway 1, the Company's Energy Efficiency team reaches out to customers, owners and developers regarding new construction project opportunities. Over the years, several customers and design teams have become repeat participants. If the customer decides to participate in energy efficiency programs, the Company's team engages with the customer project design team and facilitates a design charrette to establish customer project goals. Based on the project goals, an EUI target range is established, and a Technical Assistance vendor is engaged to model the baseline project and proposed design project.

Zero Net Energy Projects

The Company's Energy Efficiency team must follow these steps for reviewing all potential Zero Net Energy projects:

- Vet the proposed project to ensure it meets basic New Construction Program requirements.
- Bring in a Zero Net Energy expert to assist the customer in assessing the project and identify services that may be needed to achieve the Zero Net Energy goal.
- Require the customer to engage a Zero Net Energy consultant, with the fee cost shared between the Company and the customer. The Zero Net Energy consultant is engaged from early in the project through the end of design development.
- Ensure the Zero Net Energy consultant provides a number of services including benchmarking EUI targets, conducting an energy charrette, performing load reduction analysis, and running HVAC selection analysis and model feedback.
- Require the customer to sign a Memorandum of Understanding (MOU) that outlines the EUI target, the post-occupancy EUI verification plan and other incentive details.
- Require the customer to sign an application that includes the energy efficiency measures and systems agreed upon. By signing the MOU and application, the customer commits to implementing the efficiency recommendations and accepts the associated incentives.
- Ensure a Company engineer creates a Minimum Requirements Document as part of the application process.
- Remain engaged during the design development and construction process to ensure energy efficiency measures and solutions are incorporated in the building project to achieve the EUI targets.

- Perform a visual inspection and review all construction design submittals after project completion. If any HVAC controls or variable-load energy efficiency measures have been incorporated in the project, the Company requires field measurements to verify operation standards, as described in the Minimum Requirements Document.
- Monitor the EUI measurements over a prescribed period and under the prescribed conditions before final incentive payment is made based on the savings achieved.
- Offer an optional verification incentive to assist customers in identifying and correcting issues that may arise in the first year of occupancy to help achieve the EUI. Verification documents must be submitted to obtain the optional verification incentive.

2.2.3.2 Pathway 2: Streamlined/Systems Approach

The Company's Energy Efficiency team works with and approaches customers, building owners and owner representatives regarding new construction or major renovation projects. If a customer decides to move forward with a project, they can choose to: (1) select a vendor of their choice to install energy efficiency measures or (2) to develop the project with technical assistance from the Company's Energy Efficiency team. Once the measures are installed, the Company performs an inspection and reviews design submittals. Once there are documented savings from the project, the customer can receive the incentive.

2.2.4 2024 Program Enhancements and Changes

As a result of the New Construction Program's newly simplified participation pathways, the Company anticipates these changes will result in additional program activity during the 2024-2026 term. Regarding building codes, in its 2023 session, the Rhode Island General assembly passed legislation requiring the state to adopt the 2024 International Energy Conservation Code (2024 IECC) within 3 months of its release. Based on conversations with staff at the International Code Council (ICC), the 2024 IECC is expected to be released in mid-2024. The Company's standard practice is to not update a new construction baseline building code mid-program-year, and so the 2024 IECC will be used to update baseline assumptions for the 2025 program year. The Company will continue sponsoring code trainings through the Code Compliance Enhancement Initiative (CCEI) and will claim savings based on the most recent evaluation of this initiative. While code trainings will focus on preparing the workforce for IECC 2024 adoption, the current evaluation of the CCEI is based on prior code versions, and so the Company believes that there is still reasonable justification for claiming the current savings attribution level through this initiative. The CCEI evaluation will be refreshed in future years once IECC 2024 is adopted to update the savings claim accordingly. Regarding appliance standards, the Company will make changes to the Upstream Initiative's new construction baseline assumptions for food services and HVAC equipment as applicable.

Commented [AC36]: Have customers reported issues/concerns with missing out on incentives due to EUI measurements? Let's say they fall slightly short of an EUI threshold after installation - would they still receive planned incentives if they install scoped equipment/technologies?

Commented [RIE36R2]: Would have to consider this on a case by case basis. To date it has not been an issue.

Commented [AC37]: Why is this the standard practice? In instances where building code changes are guaranteed to occur mid-term or over a specific period, there are adjustments made accordingly. Understand that this may be the simplest/easiest practice, but this may warrant further discussion.

In addition, this implies that baseline is always equal to code which is not generally true in most states in New England (lots of older building stock). Most states use industry standard practice as a baseline; RI currently uses ISP in some cases like C&I NC lighting. Just a note that RI Energy will need to consider ISP vs. upcoming building codes when determining baselines.

Commented [RIE37R2]: Thanks for the comment. Open to discussing.

Commented [AC38]: Would like to see some commentary about the impacts this will have on the program, beyond the fact that claimable savings will decline if nothing else changes. Propagating more advanced stretch codes is a way to continue to claim savings if they are above IECC 2024. Perhaps this is text to include in the final 3YP since it will have significant impacts

Commented [RIE38R2]: Added some commentary.

Commented [TE39]: From the C-Team: "Response to state energy code updates does not include discussion of how the Company can continue to pursue claimable savings (e.g., stretch codes)". Anything to add here to address this comment?

Commented [ME39R2]: Added content to reflect that we will be training the workforce for IECC 2024 before it is adopted. Therefore, there should be some savings as builders get more familiar with the new practices and implement them before required.

2.2.5 Other Considerations

2.2.5.1 Customer Feedback

The Company regularly solicits customer feedback through its Energy Efficiency team’s interactions with customers and design teams. These entities provide insights on what types of technical assistance and design support motivate builders, architects and customers to adopt high efficiency measures and design practices.

The Commercial Customer listening session held this year yielded additional insights. Participants mentioned the challenge of coordinating the Company’s technical review timelines with project timelines, and as a result the Company is reviewing options for improving coordination with project developers and technical reviewers. Participants also had suggestions for increasing program outreach, such as additional case studies and working with trade associations, which are part of 2024 marketing activities.

Commented [AC40]: Would be nice to have themes from customer feedback and responses from the Company described in these sections

Commented [RIE40R2]: Noted

Commented [RIE41]: Steven, Chybowski: Has the Company received any insightful customer feedback worth highlighting in this section?

Commented [DE41R2]: @Toby Ast (RI Energy) Perhaps we could include a few sentences on the listening sessions that occurred earlier in the year?

3. Large Commercial Retrofit Program

3.1 Offerings

The Company has several pathways by which customers can participate in the Retrofit Program for energy efficiency in existing buildings. Customers can participate via the:

- Prescriptive Application Process;
- By working with a RI Energy Sales Representative or a Project Expeditor (PEX) to complete a **Custom application** for any energy improvement that is not covered by the Prescriptive pathway; or
- Upstream Lighting Initiative; This offering is described in Section 2.2 under the New Construction Program’s Upstream Initiatives.

Commented [CJ42]: formatting

Commented [RIE42R2]: Updated

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Commented [AC43]: Assume there isn't a bullet missing and this is just an extra space?

Commented [RIE43R2]: Updated

The Retrofit Program also offers initiatives targeting specific market segments, such as the Grocery and Industrial Initiatives that focus on the specific needs of that customer type. The Company also serves some of its largest customers through Strategic Energy Management Partnerships that are described in more detail below. Although sector-specific initiatives and Strategic Energy Management Partnerships are helpful in addressing customer needs that are shaped directly by the industry and geographies in which the customers operate gathering more savings and completing measures beyond lighting, the Company recognizes that this approach does not cover the Company’s entire C&I customer base.

Commented [AC44]: Wording suggests that other initiatives may not be successful in driving non-lighting savings for the rest of the C&I customer base not covered under SEMP/sector-based initiatives

Commented [DE44R2]: Updated!

Therefore, the Company provides a number of energy efficiency solutions that are oriented towards specific technologies and trainings.

—The following areas are included in the Large Commercial Retrofit program but are linked to specific technologies or trainings, as opposed to specific market sectors: ~~that are specific to a technology or do not address a specific market sector are also included as part of the Retrofit Program and are included in this section of the plan:~~

- Building Operator Certification training
- Equipment & System Performance Optimization Initiative
- Performance Lighting Initiative
- Customer-owned streetlights
- Company-owned streetlights
- Combined Heat and Power and fuel cells

3.2 Initiatives Primarily Targeting Large Commercial Retrofit

3.2.1 Industrial Initiative

The Industrial Initiative is available to all manufacturing and industrial customers and provides incentives and technical assistance services including free facility audits, project management, installer and customer education sessions, production systems and line efficiency coordination. In addition, the Company provides support in identifying and implementing process-related improvements that increase the efficiency of business processes and energy consumption.

Historically, the Industrial Initiative has primarily targeted large C&I customers to ensure economies of scale. In 2024, the Industrial Initiative will continue to conduct outreach to customers in the 200-to-400-kilowatt (kW) range to encourage greater participation by medium-sized industrial facilities. The Company's intent is to improve parity among C&I customer sizes and capture projects with rapid paybacks such as -variable frequency drive installations and enhanced controls.

The Industrial Initiative helps diversify the Electric Portfolio, with 66 percent of electric savings from January 2016 through July 2022 deriving from non-lighting measures including process equipment and controls (30 percent), compressed air (16 percent), HVAC (7 percent), and motors and drives (5 percent).

For the Natural Gas Portfolio, the initiative contributes significant natural gas savings from process improvements.

3.2.2 Grocery Initiative

The EnergySmart Grocer Initiative serves commercial customers who sell food at the retail or wholesale level. The initiative offers technical assistance, project management, targeted incentives, financing, and education sessions for installers and customers. This initiative primarily delivers electric savings through lighting and refrigeration upgrades. In 2022, the vendor's compensation structure was altered to encourage greater emphasis on non-lighting measures.

The EnergySmart Grocer Initiative has been in place for roughly a decade. While low-hanging opportunities related to refrigeration and lighting have been largely saturated, some additional opportunities remain – especially among late adopters, although these customers are often more difficult to engage. The initiative now also focuses on O&M measures submitted through the ESPO initiative, as well as advanced controls measures and leak detection and repair. Typically, refrigerant leak surveys are only performed when leaking refrigerant is visible to the naked eye or identified as a problem by the customer.

3.2.3 National and Regional Restaurant Initiative

The Serve Up Savings Initiative serves regional and national restaurant chains. Local restaurants with multiple locations within Rhode Island are served by the Small Business Direct Install Program. For franchisees, the initiative offers incentives, project management, technical assistance, and collaboration to develop an integrated package of efficiency measures that work for franchisors.

3.2.4 Strategic Energy Management Partnerships Initiative

The Strategic Energy Management Partnerships (SEMP) Initiative is available to the Company's largest C&I customers. This initiative targets customers who commit to achieving deeper energy efficiency savings, are motivated by corporate and institutional sustainability goals and who have the in-house expertise to make organizational changes and make multi-year efficiency plans. Participating customers agree to specific savings targets that are memorialized in the form of a non-binding Memorandum of Understanding.

The initiative provides customers with customized support and offers them flexibility to address their corporate or institutional business needs while helping them meet sustainability, carbon reduction and efficiency goals. The SEMP Initiative helps customers think long term about their energy use, needs and equipment. This initiative allows a tailored approach to the site's or facility's specific needs and results in more comprehensive energy savings than traditional program offerings.

Commented [TE45]: During the August EERMC meeting the C-Team also asked if there is any consideration given to modifying vendor compensation models, either in RFPs for vendors, or in existing programs. Any other detail on vendor compensation models could be helpful.

Commented [DE45R2]: We are going to add something similar to the EVT model (link below), but we will be adding more guardrails to prevent vendor "gaming". We will make this vendor incentive available to either small biz customers or small C&I customers 200-400kW facilities to help promote ECM for those underserved or overlooked customers.

[Text to be added to Small Biz or Retrofit section]

... [2]

Commented [AC46]: Any findings on the impact of this, given that it has been in effect for ~2 years. It is worth exploring other changes to vendor compensation if it can prove effective for driving more cost-effective savings

Commented [RIE46R2]: We will investigate.

Commented [DM47]: Is there evidence that refrigeration measures have reached saturation?

Commented [RIE47R2]: A good deal of work has been performed during the course of the program's history, but there are still refrigeration opportunities that exist in national chain stores.

Commented [CJ48]: Was this determined through evaluation and/or does the Company have good data to verify this is the case?

Commented [RIE48R2]: The EnergySmart Grocer Program has a history of baseline audits from grocery stores in Rhode Island and there are still some verified opportunities. CLEAResult holds regular monthly mee...

... [3]

Commented [AC49]: Please explain how - describing challenges will enable the Company to better engage with others so we can try to determine solutions. Are these...

... [5]

Commented [RIE49R2]: The EnergySmart Grocer program deals primarily with national or regional grocers. However we have encountered a language barrier with a new customer who recently purchased the

... [4]

Commented [AC50]: Is there a sense of the baseline level of refrigerant leak at Grocery stores in RI? There is significant global warming potential from existing refrigerants, and while energy savings may not be a

... [7]

Commented [RIE50R2]: It is well established that grocery stores have some level of refrigerant leaks occurring within their refrigeration systems nearly all the time. The EPA has established regulations stating that a grocery store car...

... [6]

The Company has ten existing SEMP agreements in place with customers that operate in a number of different market sectors including chain restaurants, colleges and universities, health care, industries and municipal and state government. Recent historic participation and savings achievement from the SEMP Initiative is as follows:

Year	Customers	Lifetime MWh	Lifetime Therms	Incentives Paid
2021	8	74,906	3,136,107	\$3,544,162
2022	10	47,722	3,057,341	\$3,423,492

In 2024, the Company plans to continue partnering with large C&I customers to increase the number of SEMP agreements, with the objective of adding 2 additional SEMP partnerships by the close of 2024. The Company will also focus on extending established partnerships. Two SEMP MOUs expire in 2023 and we are working on new MOUs to continue those partnerships. One additional university MOU expires in 2024 and we will prioritize a new MOU extending that partnership. For 2024 the Company will also emphasize broader and deeper energy savings with SEMP customers. As SEMP participants have completed LED lighting conversions, the annual savings goals frequently decrease. We work with SEMP customers to prioritize their buildings and create a project pipeline. In 2024 we will continue with retro-commissioning studies and project implementation. Retro-commissioning and early engagement on new construction projects are common with SEMP customers. In addition, the Company will utilize the SEMP relationship to market residential and commercial program offerings to SEMP community members: employees, students, neighbors, and contractors.

Additionally, the Company will continue to leverage its SEMP partnership with the state and the Office of Energy Resources Lead by Example program to achieve energy savings goals with public entities, including state agencies, state colleges and universities, and municipal buildings.

The Company plans to continue partnering with OER's Lead by Example program to help make state agencies, state colleges and universities and municipal buildings more energy efficient.

3.2.5 Building Operator Certification Training

The Company sponsors Building Operator Certification (BOC) training for facility engineers and maintenance staff. BOC training courses help operators make their buildings and facilities more comfortable and efficient. Many BOC participants also become aware of the C&I programs and actively seek out efficiency solutions for their facilities. As a result of these trainings, program participation and energy savings increase in the C&I programs. The Company will support two BOC training courses in 2024. Each course targets between 15 and 2522 participants.

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Commented [DM51]: How many existing customers? How many new customers are planned/targeted for 2024?

Commented [RIE51R2]: Added

Commented [AC52]: Is there a specific goal here? Much like wanting to understand the total number of eligible small businesses, it would help to see "SEMP-eligible" customers or the total number that would be good to target in order to inform a goal. Is there a specific number like 20 active SEMPS in a given year? This would be double the number of active 2022 SEMP customers

Commented [AC52R2]: Please include the historical SEMP participation/savings/incentives data that Michael shared with the C-Team on June 9th for context

Commented [ME52R3]: I've added a table of 2021 and 2022 participation/results.

Commented [DT(E53): Employee engagement. And marketing other EE programs. E.g. ocean job lots...signing up for home energy reports.

Commented [DM54]: This is a description of BOC, but it doesn't offer any details about 2024 plans. How many trainings are planned? How many customers are you intending to reach?

Commented [DE54R2]: Updated

Rhode Island Energy will pay up to 50% tuition reimbursement to one facilities management professional per commercial customer facility within a five-year period provided that the facilities management professional graduates from a Building Operator Certification (“BOC”) Level 1 course and commercial customer facility meets the requirements. Tuition reimbursement is available for facilities management professionals who (i) graduate from the BOC Level 1 course; (ii) are Rhode Island Energy commercial customers or employed by one of those commercial customers; and (iii) have not taken the BOC Level 1 course within the last 5 years. Facility management professionals must work at a commercial customer facility in a facilities management position, e.g., as a facility manager, energy manager or in a role to reduce building-wide energy consumption. The commercial customer facility must have a minimum of 50,000 sq. ft. of conditioned building space. Rhode Island Energy may, in its sole discretion, modify or terminate this offer for tuition reimbursement at any time without notice. Reimbursements are provided to companies or organizations and cannot be dispersed to individuals only.

3.2.6 Equipment & System Performance Optimization Initiative

The Equipment & Systems Performance Optimization (ESPO) Initiative helps C&I customers optimize the efficiency of their HVAC, refrigeration, compressed air, and steam systems. Energy efficiency solutions include operations and maintenance (O&M), retro-commissioning and monitoring-based commissioning. The initiative is available to all C&I customers averaging greater than 2,000 building operating hours a year. This initiative helps customers capture energy savings and may be delivered through other initiatives (e.g., SEMP Initiative or Industrial Initiative).

The ESPO Initiative covers several technologies and end-uses identified in the Market Potential Study, including boilers (steam and hot water), energy management systems, refrigeration, rooftop units, scheduling and set point optimization, and waste energy recovery. The ESPO Initiative provides multiple pathways for participation depending on a customer’s energy-saving opportunities, building characteristics and the sophistication of existing control systems. These pathways are detailed below.

3.2.6.1 Low-Cost Tuning Pathway

This pathway offers prescriptive incentives to customers for making common tuning improvements to building equipment and systems. These improvements are often identified through facility audits or retro-commissioning efforts. Prior to a customer or outside party receiving an incentive for installation, pre-approval must be obtained from the Company. In an effort to streamline this pathway, the Company has developed guidelines for documentation baseline conditions to enable program participants to implement some low-cost tune-up measures without pre-approval.

The Low-Cost Tuning pathway offers incentives to customers whose baseline conditions and proposed building upgrades are documented through a simple data input which is used to determine savings at the measure level. Only selected compressed air, HVAC, refrigeration, and steam measures are eligible

Commented [AC55]: What measures identified in the Market Potential study have higher savings than planned/recent actuals? The Company did some mapping and analysis here, so it would be helpful to see such measures and opportunities/barriers to implementation exist. For instance, there was significant potential identified for HPWHs and ASHPs replacing electric resistance/RACs in the MPS Refresh.

Commented [RIE55R2]: Please see the Guidehouse presentation from TWG meeting on 06/22 where they presented on the MPS vs BCR analysis and highlighted the savings comparisons between the gas and electric measures. Also please see section 7.2 of the 2024 main text for further discussion.

for the pathway's prescriptive incentives. Customers who are participating in the other ESPO Initiative pathways (see below) may elect to apply for Low-Cost Tuning pathway incentives, eliminating the need to submit custom savings calculations.

3.2.6.2 Targeted Systems Pathway

The Targeted Systems pathway offers customers a custom retro-commissioning approach. The pathway provides an in-depth investigation of specific processes or end-uses. Investigation funds are available for System Tuning and incentives are offered per unit of savings for measures implemented through this pathway, with higher incentives available for meeting certain site-specific thresholds.

Commented [CJ56]: Can more detail be provided here? Two sentences doesn't really give a good indication of what this pathway is good for or what it accomplishes. All other pathways have multiple paragraphs.

3.2.6.3 Whole Building & Process Tuning Pathway

The Whole Building & Process Tuning pathway delivers a comprehensive retro-commissioning approach for customers with a functional control system in place and whose electric usage is greater than 5 million kWh annually. The pathway offers investigation funds for system tuning and whole building and process tuning. Incentives are offered per unit of savings for measures implemented through this pathway, with higher incentives available for meeting certain site-specific thresholds.

Commented [DE56R2]: Text was added to provide more context and fuller understanding of how the Targeted Systems Pathway functions.

3.2.6.4 Monitoring-Based Commissioning Pathway

The Monitoring-Based Commissioning pathway is similar to the Targeted Systems and Whole Building & Process Tuning pathways; however, this offering assumes that identified measures and savings will persist for at least three years. Monitoring-based commissioning is a process designed to maintain and continuously improve building performance over time. This is achieved through building monitoring and analysis of large amounts of data. Known as real-time energy management, a monitoring-based commissioning approach requires the installation of a software platform and monitoring equipment to capture and analyze operational data from a building's or facility's building automation system.

Larger systems can provide continuous monitoring of hundreds of control points within a building and provide building operators with fault detection and diagnostics capabilities. This allows building operators to identify equipment that is not operated as intended due to many factors including faulty programming, systems in need of maintenance, incorrect settings (e.g., scheduling or setpoints) and even damaged equipment.

Commented [AC57]: Any commentary on difficulty recruiting customers to date and strategies to increase participation, or findings to date?

3.2.6.5 Building Analytics Pathway

This new pathway was introduced in late 2022 and funds system set-up costs for monitoring-based commissioning systems from a closed Qualified Service Provider list. This offering was designed to address historical barriers to monitoring-based commissioning adoption. The Building Analytics pathway helps customers identify sites that would benefit from monitoring-based commissioning, provides

Commented [RIE57R2]: Uptake has been slow, but there is still a chance we hit the targeted goal of 6 customers by end of year. And while our vendors has noted the importance of engaging the customer during/before their capital cycle, I do think it's perhaps best to wait to provide findings, seeing as this effort just started to ramp up this spring.

upfront support for the installation of systems that produce unknown savings and vets best in-class providers and makes sector-specific referrals regarding which Qualified Service Provider can best serve the customer’s business needs.

The Building Analytics pathway helps improve measure persistence through a focus on long-lasting measures (e.g., physical repairs and reprogramming of control systems), training for facilities staff and long-term service contracts. There is a limited pool of Qualified Service Providers for this niche field. The pathway helps customers minimize their program transaction costs and the providers give upfront guidance regarding required documentation and savings calculations. In addition, the providers deliver ongoing service analysis to help customer facilities staff interpret monitored-based commissioning system output and improve system functionality.

3.2.6.6 Additional ESPO Offerings

The Company has developed a guidebook that standardizes the process of completing and documenting retro-commissioning savings calculations and classifying different energy efficiency measures; efforts that have presented a significant challenge for prior ESPO Initiative participants and created an administrative burden for program implementation staff. This guidebook assists customers and trade allies who participate in the Monitoring-based Commissioning, Targeted Systems and Whole Building & Process Tuning pathways by answering common questions and eliminating points of confusion.

The Market Potential Study found that energy management systems realize the second-highest savings among electric non-lighting measures. While the ESPO Initiative is designed to improve the performance of existing equipment and systems, the monitoring-based commissioning and tuning investigations conducted very often lead to the installation of new energy management system equipment or the reprogramming of controls.⁴ The ESPO Initiative also helps municipal customers improve the efficiency of unit ventilators and other gas measures located in school classrooms and other occupied zones (i.e., not heating and cooling equipment located in mechanical rooms) as this equipment frequently needs significant tuning or repairs.

Commented [AC58]: Encourage and appreciate specific references like this, not just to the MPS but other sources of relevant information as well

Commented [RIE58R2]: Noted

Commented [RIE59]: Steven Chybowski: I appreciate the references to the MPS and that the results of that study were helpful for program development

Commented [RIE59R2]: Thanks for the comment Steven.

3.2.7 Performance Lighting Initiative

This initiative is open to all customers with a commercial account. All projects, for both existing and new construction projects, that qualify under the Performance Lighting Initiative must meet the following criteria:

- Average a minimum of 2,000 lighting operating hours per year,⁵

Commented [DM60]: Both NC and existing correct?

Commented [DE60R2]: correct.

⁴ The reprogramming of controls is treated as an energy management system for C&I program purposes and is either assigned to the New Construction Program or Retrofit Program, depending on the situation.

⁵ This criteria is before controls are implemented.

- Provide maintained light levels in accordance with the recommendations of the Illuminating Engineering Society of North America’s 10th Edition Lighting Handbook or supporting Design Guides, and
- The customer must submit a copy of the manufacturer’s technical specification sheets (cut sheets) for each type of eligible equipment to be purchased.

Performance Lighting Initiative incentives are offered in two tiers:

- Tier 1: Performance lighting—LED lighting with luminaire level lighting controls or wirelessly accessible controls, and
- Tier 2: Performance lighting—LED fixtures with networked lighting controls system.

Commented [DM61]: Can you specify the incentive levels for these two tiers?

Commented [RIE61R2]: Please see Section 8.

3.2.7.1 Lighting Designer Incentives (LDI)

The initiative offers lighting design incentives to design teams for qualifying projects in both new and existing buildings. The Company maintains a list of qualified lighting designers, engineers and architects who have demonstrated at least five years of lighting design experience. Lighting designers are not allowed to sell products for projects where they receive lighting design incentives. The Company markets the program to the new construction and design community.

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Commented [DM62]: Everything after this point pertains to the lighting designer incentive, and not the performance lighting incentives. Can you denote that?

Commented [DE62R2]: Good pick up! We’ve added the pathway title!

Commented [DM63]: Previously, the lighting designer incentive was a separate offering. The way this is outlined here, it suggests that the LDI is exclusively offered within Performance Lighting. Is that correct?

Commented [DE63R2]: The Lighting Designer Incentives (LDI) subsection title was missing. This has been added to denote the different offering.

Commented [AC64]: There has been little activity to date through the Performance Lighting initiative, though lighting/lighting control projects have persisted through the Custom pathway. Can the Company add commentary on why this is the case?

Commented [DE64R2]: The Company will look into why participation in the custom pathway has persisted and report on any barriers or adjustments that could be made to the performance lighting pathway to increase participation.

Lighting designers must have at least one of the following qualifications to earn the incentive:

- **Lighting Certified.** This is granted to those designers who successfully complete the NCQLP (National Council on Qualifications for the Lighting Professions) Lighting Certification Examination.
- **Certified Lighting Energy Professional.** This is a certification awarded by the Association of Energy Engineers.
- **IALD Professional.** This is a professional membership status for the International Association of Lighting Designers.
- **Certified Lighting Designer.** This is a certification sponsored by the International Association of Lighting Designers. The guidelines for this certification are similar to those for the ESPO lighting design incentive.

The incentive must go directly to the lighting design team to fund their efforts to achieve lighting energy savings while maintaining quality lighting design. These incentives have been recalibrated to encourage projects to achieve higher tiers in Performance Lighting. The lighting design incentive must equal 20 percent of the customer’s lighting incentive for Performance Lighting Tier 2 projects, 15 percent of the

incentive for Performance Lighting Tier 1 projects and 10 percent of the incentive for all other projects. The Company has established a \$15,000 maximum incentive per project.

3.2.8 LED Streetlight Initiatives

3.2.8.1 Customer-owned LED Streetlight Initiative

This initiative is available to any city or town in Rhode Island serviced by the Company for electric service on the customer-owned equipment S-05 tariff,⁶ as well as fire districts, municipal water utility boards, Kent County Water Authority, Rhode Island Commerce Corporation, Narragansett Bay Commission and the State of Rhode Island. The initiative offers incentives for qualifying LEDs and/or controls associated with either dimming or part-night run hours. The majority of Rhode Island’s municipal and state streetlights have been converted to LEDs already, although opportunities remain to implement advanced controls. This is a success story, due in large part to efforts by the Company and actors within state government.

To be eligible for incentives, customers must be on one of the three unmetered streetlight tariffs (S-06, S-10 and S-14) and replace an existing roadway or post-top style, incandescent, mercury vapor or high-pressure sodium vapor sourced luminaire with one of the Company’s LED offerings. The tariffs allow LED street or post-top fixtures to be available to all customer groups. All company-owned street and area lights operate on a dusk-to-dawn schedule. This is a success story, due in large part to efforts by the Company and actors within state government.

3.2.8.2 Company-owned Streetlight Equipment Initiative

This initiative is available to any customer on one of the three unmetered streetlight tariffs (S-06, S-10 and S-14) who replaces an existing roadway or post-top style, incandescent, mercury vapor or high-pressure sodium vapor sourced luminaire with one of the Company’s LED offerings. The tariffs allow LED street or post-top fixtures to be available to all customer groups. All company-owned street and area lights operate on a dusk-to-dawn schedule.

3.2.9 Combined Heat and Power Initiative

Combined heat and power (CHP) is the simultaneous production of electricity and thermal energy from a single fuel source. The CHP Initiative offers incentives and technical assistance to customers who install new construction and retrofit installations.

Commented [CJ65]: Just noting the difference in level of detail for this initiative (nearly 8 pages) compared to the other initiatives.

Commented [DE65R2]: noted.

⁶ Rate S-05 is the customer-owned equipment tariff.

Eligibility:

To qualify for a Combined Heat and Power (CHP) energy efficiency incentive, a proposed project must meet the following conditions:

- Host customers must be in the franchise service area of the Company.
- Both new construction and retrofit installations are eligible; in either case, the baseline system must be documented.
- The CHP system must meet the applicable efficiency requirements listed in ~~Table 4~~~~Table 4~~~~Table 2.~~
~~requirement.~~ System efficiency is calculated as Annual Useful Energy/Annual Natural Gas Input where:

$$\text{Annual useful energy} = \text{Net Annual kWh} * 3,413 / 100,000 + \text{utilized thermal output (therms)}$$

$$\text{Annual natural gas input} = \text{CHP gas input in therms (HHV)}$$

- The equipment to generate electricity may be a combustion-based system (internal combustion engine, gas turbine engine, steam turbine), or a fuel cell system, and the facility will capture waste heat for use in the facility.
- CHP projects must reduce carbon emissions related to overall site energy use by a minimum of 30%, which may be achieved through other simultaneous EE installations.
- The project must pass cost-effectiveness screening.

In order to support Rhode Island’s climate objectives while still promoting CHP, for 2023 the Company proposes the following changes which are reflected in this plan.

- Total combustion-based system efficiency must be greater than or equal to 60%
- Back pressure and extraction turbines are no longer eligible
- Eligibility for incentives will be available to only those CHP projects that reduce carbon emissions related to overall site energy use (including source generation, even if out of state) by a minimum of 30%; the amount of carbon reductions may be achieved through other simultaneous energy efficiency installations to achieve the site carbon reduction goal.

Offerings:

If a project has been shown to be cost-effective, presents no capacity or reliability concerns, and has met the required eligibility criteria, it will be eligible for a non-variable incentive. ⁷

3. Large Commercial Retrofit Program

Table 3. Determination of Non-Variable Incentive Level for CHP Projects

System	Incentive
Fuel cell	\$700 per net kW
Combustion-Based CHP with total system efficiency ≥60%	\$800 per net kW
CHP (fuel cell or combustion-based) that utilizes more than 25% opportunity fuels, renewable natural gas, or biogas as the fuel source	\$1,050 per net kW

For the purpose of determining the non-variable incentive level, the Company has defined opportunity fuels, renewable natural gas and biogas as gaseous fuels derived from the biological breakdown of waste.

The CHP system costs must include: all system, auxiliary, and interconnection costs, and CHP maintenance. If the CHP system is receiving a tax credit or other financial arrangement that reduces the cost of the CHP project to the customer without distributing that cost reduction as an additional cost to other electric or gas ratepayers, it may be treated as a credit against the cost of the CHP project.

The CHP incentive package cap from the Company will be 70% of the total project cost inclusive of the installation incentive, incentives related to gas service, present value of any performance incentive, system reliability procurement incentive, and any other incentives related to the transaction. For new construction installations, the incentive cap will be 70% of the incremental cost difference between the cost of what would have been done absent the CHP project and the cost of the CHP project. In the event the incentive is greater than 70% of the total project cost, the incentive amount will be reduced to an amount equal to or less than 70%. A minimum of 20% of the energy efficiency incentive payment will be held until commissioning is completed.

An additional optimal operations and maintenance energy efficiency incentive capped at \$20/kW-year (\$1.66/kW-month) and \$50/kW-year (\$4.16/kW-month) for systems utilizing biogas will be offered as part of the incentive package for any project with a net output greater than one MW for a period of up to 10 years. No payments will be made until the unit is in operation and provides demonstrated load reduction. The optimal operations and maintenance energy efficiency incentive will be made semiannually based on actual metered load reduction. Load reduction performance will be based on the net daily metered kW output of the system during ISO-New England’s on-peak periods averaged over each six-month period.

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The optimal operations and maintenance energy efficiency incentive provides the customer with a post-commissioning incentive for maintaining or increasing the total system efficiency of the CHP system. This helps ensure the system is operating efficiently and that the system capacity savings are in-line with those bid into the ISO-NE Forward Capacity Market.

The customer will repay a portion of the incentive to the Company if the project is abandoned, removed from the premises, sold, or otherwise no longer utilized as the primary source of heat and electricity by the customer, within 10 years from the date of final incentive payment authorization. The repayment will be the energy efficiency installation incentive times the number of years remaining until the required ten years of service divided by ten.

Identification and Recruitment of Qualified CHP Projects:

The Company currently works with vendors and customers to identify CHP opportunities at customer locations. The Company promotes CHP systems and outlines the process for qualification and implementation of CHP facilities through the Company's energy efficiency programs. The Company has sales and technical staff that are the primary points of contact for customers and vendors with potential CHP projects. The Company will continue to communicate criteria for CHP assessment and will communicate to vendors so that their presentations to customers will be more consistent with Company technical assistance requirements.

Targeted Outreach and Support for Potential CHP Customers:

~~The CHP offering is available for small, medium and large customers. The Company also works with TA vendors that provide assistance in identifying and executing CHP projects. In addition, the Company works with CHP vendors to offer RI customers smaller CHP units where installation and operations are turn-key. Other strategies that will enhance CHP acceptance will also be considered, such as: preparing and distributing case studies, providing customer plant operator training depending on the size and complexity of the system and whether the management of the system will be outsourced, and providing easier customer access to CHP unit performance data.~~

Installation of Incremental or Additional Energy Efficiency Measures for Customers who have Previously Installed CHP:

The Company will individually review the installation of proposed incremental energy efficiency measures for customers who have previously installed CHP on site or who are adding additional energy efficiency equipment that might affect the performance of an existing CHP unit. The Company will carefully categorize and protect the benefits attributed to previously installed CHP projects, while

at the same time foster any additional cost-effective energy efficiency measures that further reduce total energy use.

There are two types of project categories. The first category is “CHP Optimization” and involves measures which are installed with the purpose of increasing the output or operating efficiency of the existing CHP or other distributed generation (DG) unit; for example, the addition of combustion air precooling on a gas turbine CHP unit. In order to maintain compliance with ISO-NE’s FCM rules, such projects will be tracked in the FCM, if applicable, as incremental output of the associated DG facilities. The second category is “Incremental EE”, which includes “traditional” energy efficiency measures installed with the intent of reducing energy consumption in sites that have previously installed CHP. These measures may or may not affect CHP performance and output.

For locations where an existing CHP unit covers a large percentage of the total load at the facility, additional energy efficiency savings measures installed may result in lowering the output of the CHP system instead of a load reduction on the Company’s electric grid. Therefore, to assess savings that can be claimed by the energy efficiency programs, hourly load mapping may be required to accurately assess the net savings on the Company’s electric and gas distribution systems, which will be assessed at the Company’s electric and/or gas revenue meters at the customer’s site. In cases where a typically electric measure (like lighting) reduces the electric load enough to require reducing the CHP output, gas savings may result from a normally electrical energy efficiency measure and could be claimed in the Gas utility DSM programs.

Scoping Study/Qualification:

The Company will offer technical assistance on CHP projects beginning with a preliminary scoping of a potential site. This scoping will be based on an evaluation of:

- Monthly (or hourly, where available) electric, gas, and other fuel usage
- All site-specific forms of thermal energy end-uses
- Coincidence of electric and thermal loads
- Proposed project cost
- A high-level analysis of the fuel resources needed for the project and any actual or anticipated fuel capacity constraints and/or actual or anticipated fuel reliability issues

This scoping will determine if further study of the site appears favorable, i.e., provides CHP operating hours and load factors that would be an appropriate application of CHP.

Technical Assistance Study:

Assuming a favorable screening during preliminary scoping, Rhode Island Energy will offer to co-fund a TA study of CHP with the customer. The TA study will be performed by an independent, qualified

engineering firm. This study will assess thermal and electric loads, propose an appropriate CHP size and technology, compile a budget cost estimate, and identify potential barriers to the technology, etc. Rhode Island Energy typically funds 50% of the cost of any TA study conducted by a preferred vendor selected by the Company, and up to 50% of the TA for other qualifying independent engineering firms. Any TA study by a CHP vendor or its representative which fulfills the CHP TA requirements may be accepted, though no co-funding will be provided. The TA study must be completed, submitted, and approved by the Company prior to implementation. The TA study must include an assessment of the likely on-peak kW reduction from the CHP given the proposed nameplate rating, the net CHP output after subtracting parasitic loads associated with the CHP, projected availability based on anticipated site-specific operating characteristics, performance data on other similar units, and a greenhouse gas analysis that estimates the change in greenhouse gas emissions expected from the project and a statement that informs the customer of the state goal to reduce greenhouse gas emissions by 45% below the 1990 levels by 2030; 80% below 1990 levels by 2040; and net-zero by 2050. (On-peak kW reduction = Net Output x Availability x % Loaded.) This kW load reduction should be used in the benefit-cost screening.

As indicated in the offering section, for CHP facilities greater than 250 net kW, incentives are only available for CHP projects that reduce the carbon footprint of the host facility by more than 25%. The TA study of the CHP proposal could include an assessment of energy efficiency measures that would help meet that objective. These opportunities themselves will be eligible for energy efficiency incentives and will help make sure that the CHP facility is correctly sized for the facility's needs and will avoid creating a disincentive for future load reduction at the site.

Cost-Effectiveness:

The screening for cost-effectiveness specific to CHP is included in the Rhode Island Test included as Attachment 4. However, given the Division's concerns over the applicability in all circumstances of what the Division characterizes as generic economic benefit assumptions identified in the CHP economic development benefit study underpinning these adders, the Company will provide two scenarios of the benefit cost screening for CHP systems with a net output of one MW or greater: one test that includes the economic benefits adder within the Rhode Island Test, and one test that excludes the economic benefits adder. If the scenario of the screening test for the project would not pass without the economic benefits included, the Company will provide a written and well-supported justification explaining why the economic benefits are reasonably likely to be obtained. During the project notification process described elsewhere in this section for projects of one MW or greater, if any party who has intervened in the notification dockets disagrees with the Company's justification, the matter will be set for hearing at the Commission for resolution.

Other Contract Terms and Guidelines:

In order to ensure proper operation of the CHP facility and persistence of energy savings, the following terms and guidelines will be required:

- As part of the TA study, a minimum requirements document (MRD) will be developed. This MRD will contain engineering hardware and operational specifications that directly affect the savings estimates developed in the TA study. Compliance with the MRD will be necessary to receive rebate payments.
- All systems greater than one MW will require electric, thermal and gas metering for commissioning and monitoring of system efficiencies.
- The project must be commissioned. Commissioning is a process following installation whereby a third party verifies that the project is installed and operating as detailed in the TA study and MRD.
- The customer must sign and produce a contract for O&M services through the first planned major overhaul of the CHP unit after post installation commissioning. On-going O&M contracts for a minimum of 10 years from project commissioning are recommended.
- Customers applying for interconnection of a CHP systems must not operate the unit until they receive the authorization to interconnect from the Company.
- kW-demand savings achieved via the electric energy efficiency programs, including CHP, will continue to be reported by the Company to ISO-NE as Other Demand Resources (ODR) and the revenue generated will be used to fund future energy efficiency projects through the Company's programs.

Qualification:

The cost of the project will be provided by a design/build or general contractor experienced with CHP projects and revised as necessary.

Attribution of CHP Energy Savings to the Company:

For CHP projects one MW or greater in size that meet the eligibility criteria, 100% of the project savings shall be attributed to the energy efficiency programs. For CHP projects smaller than one MW, the Company shall use the latest net to gross adjustments determined by impact evaluations conducted on the RI CHP programs. These evaluations shall be conducted at least once every five years.

Notification Process:

The Company shall inform the DPUC, OER, and EERMC of any CHP project with a net output of one MW or greater (where net is the nameplate MW output minus CHP auxiliary kW). The notification shall occur after the cost benefit screening and before the offer letter is presented to the customer. For CHP projects with a net output of one MW or greater, the Company shall submit the following documents for review by the Division:

1. Documentation demonstrating that the project would not move forward without energy efficiency technical assistance and/or incentives. The documentation shall justify its finding with the following evidence:
2. A letter signed by a senior executive or site operations manager stating that the project would not move forward without the energy-efficiency technical assistance and incentive;
 - a. Documentation from the customer on all relevant leases, agreements or commitments related to the CHP system or incentive offer;
 - b. Estimated project budget
3. A complete benefit cost analysis for the CHP project using the Rhode Island Test, as well as application of this test applying sensitivities related to the removal of economic benefits
4. A report including a natural gas capacity analysis that addresses the impact of the proposed project on gas reliability; the potential cost of any necessary incremental gas capacity and distribution system reinforcements; and the possible acceleration of the date by which new pipeline capacity would be needed for the relevant area.

For any proposed CHP project greater than one MW:

1. The Company will submit a project description to the Division, providing all the pertinent details relating to the project.
2. The Division may submit information requests to the Company at any time after receipt of the project description. The Division may also submit follow-up data requests, as needed.
3. The Company shall respond to all information requests as soon as reasonably possible, but no later than fourteen days from receipt of information requests, unless the Division grants an extension.
4. The Division will make all reasonable efforts to communicate decisions around the provision of a notification of support within thirty days of the receipt of the last set of information request responses received from the Company.
5. To the extent that additional review time is required, the Division will provide notification to the Company.
6. If at the end of fifty days from the date the Company provided the project description to the Division, the Division has not provided to the Company its opinion of support or opposition to the project, the Company retains the right to make a filing with the Commission seeking approval of the CHP incentive. The Division retains its right to take any position on the project it deems appropriate and shall not be prejudiced by the fact that it did not provide an opinion to the Company within the fifty-day period.

Even if the Division provides its opinion to the Commission that the Division supports the CHP project, the Company must file a notification with the Commission, setting forth the pertinent facts relating to the project. If (i) the Commission takes no action within thirty days and (ii) the Division or any other

party has not objected to the proposed project, the project will be deemed approved. If the Division or any other party objects, the Commission will set the matter for hearing.

Customer and Vendor Feedback:

Stakeholders including vendors and installers provided feedback at the 2023 Rhode Island Annual CHP Public Meeting. Stakeholders expressed that the interconnection process remains the most significant barrier to CHP adoption, noting that the process is time-consuming, costly, and creates difficulty in planning projects as interconnection requirements and costs are not known until late in the design process.

Participation and Savings:

Due to the high capital cost and technical requirements of installing CHP, there is a very long lead time for a successful installation. With small numbers of projects and wide ranges of possible project sizes, the Company anticipates substantial variability in MW realized in any given year. Due to the high capital cost and technical requirements of installing CHP, there is a very long lead time for a successful installation.

The Company commits to providing an updated estimate of projects in the current-year pipeline in each annual Energy Efficiency Plan and reconciliation filing to the PUC going forward.⁸ Direct notification shall be sent to the Division of Public Utilities & Carriers, the Office of Energy Resources, and the Energy Efficiency and Resource Management Council via email whenever a CHP project with a net output of one MW or greater is added, removed, or updated after the Technical Assistance Study and before the offer letter to the customer.

3.3 Eligibility

The program serves the needs of existing buildings in their pursuit to lower energy consumption. All C&I customers are eligible for the Retrofit Program.

3.4 Implementation and Delivery

The Retrofit Program offers customers a variety of pathways to participate. Typically, a Company sales representative is assigned to cover any large C&I account, defined as a customer with at least 1 million kWh or 100,000 therms of annual energy usage. The general customer journey through the Retrofit Program is:

⁸ Other project information such as Name*, Approximate Size of CHP (kW and Net Lifetime MWh), Location, and Current Status (Scoping, Study, Notification Process, Under Construction, Post-Inspection or Commissioning), may be provided depending on the state of advancement of CHP projects.

Commented [AC66]: This kind of feedback is helpful, in addition to how the Company proposes to address issues. Since there is at least an annual meeting to convene CHP stakeholders, has the Company considered forming a C&I customer working group to discuss ways to improve programs? This would enable customers to share more consistent, meaningful input on all programs. In general, the level of detail in this section would be nice to see for other initiatives

Commented [RIE66R2]: Thank you for the suggestion.

- A facility audit or walk-through by the Company, customer or a third-party vendor identifies one or more energy efficiency opportunities.
- In most cases, especially custom measures, the Company provides an offer letter committing to a specific incentive and laying out the project's requirements. The customer signs and submits the offer letter.
- Once the energy efficiency measure is implemented, the customer notifies the Company. The Company's staff or vendors (often engineers) verify that the measure has been implemented in accordance with project requirements.
- Company staff (administrators, engineers, and sales staff) work with the customer to ensure complete documentation and to pay the incentive.

Prescriptive Application

Customers can complete prescriptive applications by printing or submitting them [online](#). Prescriptive incentives are available for a wide variety of standardized energy efficiency measures with "deemed" savings values, such as lighting equipment, air compressors, variable speed drives and steam traps.

Upstream Process

The Upstream Initiatives offer instant discounts (i.e., incentives) to customers for the purchase of qualified, high efficiency products including luminaires, kitchen equipment, water heating equipment and high efficiency heating and cooling technologies at participating distributors. By offering discounts through distributors, the Company obviates the need for individual customers to submit incentive applications, a significant barrier for non-managed and smaller customer accounts. Customers no longer need to submit applications for incentives, which drives far greater program participation and more equitable distribution of incentive funds. The Upstream Initiatives impact the market by reducing the cost of energy-efficient products compared to less efficient alternatives and by encouraging distributors to stock and promote high efficiency products. Note: The Upstream Lighting Initiative's savings and budget are captured within the Retrofit Program and the Upstream HVAC and Food Service Initiatives are captured within the New Construction Program.

Custom Application

A Company sales representative or project expeditor assists customers and their vendors with the completion of the Retrofit Program's custom applications. These are applications for the installation of any energy efficiency measure not incentivized through the Prescriptive or Upstream Initiatives. A custom measure typically requires a Minimum Requirements Document that provides details regarding project guidelines and engineering specifications. Custom measures also require detailed savings

calculations completed by a combination of customer, vendor and Company staff. For some projects, additional post-installation monitoring must be completed prior to incentive payment to ensure projects perform in accordance with the Minimum Requirements Document.

Project Expeditors

The Company utilizes project expeditors to provide turnkey services for Retrofit and New Construction Program projects. A project expeditor is an authorized vendor who serves as a customer’s main point of contact and personal guide to energy cost savings. Several project expeditors work closely with the Company’s account management team to evaluate energy efficiency opportunities and determine incentives. A project expeditor can connect large C&I customers with the latest energy technology solutions and savings on equipment including:

- Lighting and lighting controls,
- HVAC efficiency improvements,
- Energy management systems,
- Variable speed drive upgrades for fans, motors, and pumps in HVAC, refrigeration, and other systems, and
- Gas heating and hot water system upgrades,
- Compressed air solutions, including air compressors, dryers, drains and engineered air nozzles.

3.5 2024 Program Enhancements and Changes

Building Analytics Initiative

In 2024, the Company will scale up the Building Analytics Initiative to help customers optimize the performance of HVAC equipment and other systems. The Building Analytics Initiative launched in 2022, with the selection and onboarding of Qualified Service Providers, finalization of program materials, and initial outreach to customers. In 2024, outreach and system installation are expected to ramp up. Although it often takes a full year after system installation to achieve significant customers savings, some savings is likely to be captured in 2024.

Technical Processes

In 2024, the Company will implement multiple improvements to technical processes and also develop streamlined savings calculators for target measures. The Company will launch a Heat Pump Hot

Commented [AC67]: Reiterate comment above re: request to describe challenges with recruitment and experiences with the program to date. Have Commercial Real Estate customers been engaged?

Commented [RIE67R2]: See prior response with regards to building analytics.

Commented [AC68]: Highly encourage this!

Commented [RIE68R2]: Thanks for the comment Adrian.

Water Heater calculator, an Energy Management System prescriptive calculator, a C&I weatherization tool and other custom express tools. These efforts are likely to yield savings in 2024.

The Company will also look to deploy a data-driven approach to increasing customer participation in the commercial and industrial sectors. This includes analyzing customer consumption data (kWh, peak load, and therms) and past energy efficiency participation to better target customers, especially non-participants. Furthermore, the Company will revisit burdensome data collection practices that can discourage customers from pursuing custom projects. The objective is to strike a better balance between the need for accurate savings calculations and the need to minimize the time required by customers and their contractors to participate in the program.

Company engineers often conduct site visits when validating project installations and savings calculations. Going forward, engineers will leverage these site visits not only to validate installed measures but to identify additional energy-saving opportunities.

Trade Ally Engagement

~~In 2024, the Company will seek to better engage trade allies (primarily contractors) with expertise in HVAC, controls, refrigeration, and other technologies to participate in the C&I programs. Broader program participation from these trade allies is critical to diversifying the Company's Energy Efficiency Portfolio beyond lighting. This effort would involve building relationships with trade allies, educating them on available efficiency incentives and other program benefits, and breaking down barriers to program participation.~~

~~This effort will tie in with both the efforts described above to streamline technical processes and with the C&I workforce development activities. The Company believes this will contribute to both the installation of a greater volume of high efficiency equipment and sophisticated control systems and to a better trained workforce.~~

Additional Program Enhancements

In 2024, the Company will introduce new services supporting more advanced system controls, energy management systems, and building analytics to the Retrofit Program. This includes retro-commissioning, monitoring-based commissioning, equipment right-sizing and the Upstream Initiatives. ~~The Company will offer enhanced incentives to customers who commit to implementing comprehensive energy efficiency projects.~~

The Company plans to expand the reach of the SEMP Initiative to support the increasing number of customers with climate and sustainability goals. This includes expanding services supporting more advanced system controls, energy management systems and building analytics. In 2024, the Company will develop a host of prescriptive and custom offerings to promote commercial weatherization and

Commented [AC69]: Will this consider what measures past participants have installed? If it is all mostly lighting, then it will still make sense to reengage past participants with different offerings. Agree that nonparticipants should be a focus though, support a data-driven approach

Commented [DE69R2]: That's correct, we will look at both what past participants have installed (with a focus on re-engaging customers that have exclusively installed lighting), and use data to focus on engaging and promoting EE among nonparticipants.

Commented [AC70]: Agreed. One adverse evaluation impact could come from inaccurate ex ante savings forecasts, which could result in artificially inflated or reduced realization rates. There will need to be careful consideration for which practices can be expedited and others which do not have much flexibility

Commented [RIE70R2]: Noted

Commented [AC71]: Good to keep this in mind

Commented [RIE71R2]: Noted

Commented [AC72]: Assume this also includes providing support for upskilling/how training is provided through RIE and other entities? The Workforce Needs Assessment lists a number of entities that administer training - The Company should collaborate with them more

Commented [DE72R2]: This section has been removed.

Commented [DM73]: What's in it for them? Consider offering contractor incentives for multiple project completions, comprehensive projects, and/or installation of target measures.

Commented [DE73R2]: This section has been removed

Commented [AC74]: What are these barriers? Would like to see them characterized here. Is it more administrative barriers?

Commented [DE74R2]: This section has been removed

Commented [AC75]: Need to make sure that the parameters around enhanced incentives are appropriate. (e.g. some kind of savings threshold from each end use)

Commented [DE75R2]: The Company will not offer enhanced incentives for "bundled" or comprehensive measure projects in 2024.

Commented [AC76]: Good to know that services will be expanded - it also sounds like the Company will ramp up efforts to engage with suitable customers? Is there a target for SEMP agreements to be established in 2024?

Commented [DE76R2]: The Company plans to add 2 new SEMP agreements in 2024.

greenhouse gas emissions reductions. Additionally, the Company will work with OER to better understand electrification efforts being funded through state and federal programs.

In 2023, the Northeast Energy Efficiency Partnership (NEEP) commenced a Rhode Island Community Energy Network. The intent of the network is to support all RI municipalities in pursuing clean energy and building decarbonization actions (and applying for federal funding). RI Energy has participated in numerous meetings and events of the network to provide information on our programs and plans to continue to engage in 2024 and beyond.

In 2024, the Company will continue to enhance its continuing education offerings for building managers and facilities operators, including the BOC trainings.

The Bipartisan Infrastructure Law has allocated \$550 million to expand DOE's existing Industrial Assessment Center (IAC) program. The Company has been in discussions with both Community College of RI and Worcester Polytechnic Institute with regards to their applications to DOE to establish IACs at their institutions. These programs will provide training for students through new classroom curricula and hands-on field experience providing energy assessments to small and medium sized manufacturers in Rhode Island. RI Energy has committed to working with both schools, should their applications be accepted, by connecting them with enterprises that would be good candidates for energy assessments and providing funding to support energy assessment activity. These IACs would adhere to Justice40 guidelines, and each school has a diverse student body that would benefit from expanded opportunities in the field of building science. If awarded, these IACs would conduct energy assessments and provide additional workforce capacity, especially for evaluating the energy performance of smaller enterprises.

Variable Frequency Drive Contractor Incentive

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In 2024, the Company will offer a limited-time contractor incentive to HVAC, mechanical, electrical, and controls contractors who identify variable frequency drive (VFD) opportunities in commercial and industrial facilities between 200-400 kW demand range. The Company will offer a split-incentive of \$30 a horsepower per the proposed/installed VFD. A \$10 per horsepower incentive will be made available to the contractor after the Company has reviewed and confirmed the project's eligibility. And a \$20 per horsepower incentive will be made available to the contractor upon successful installation and operational testing.

The contractor incentive will only be available to retrofit installations and for VFDs that are controlled by automatic signal. The contractor incentive will not be made available to VFD replacements, forward-curve fans with inlet guide vanes, variable pitch vane-axial fans, circulation pumps with integral variable speed technology, or VFDs installed prior to January 1, 2024.

3.6 Other Considerations

Workforce Development

The Company is planning additional trainings to upskill the C&I workforce. Technologies of focus include HVAC, building controls and automation, building envelope, and energy management. These trainings target a mix of customers, trade allies (e.g., project expeditors, contractors, engineers, etc.), program vendors, and other project influencers. A particular area of focus is facility auditors, who are often charged with identifying potential opportunities. While some have broad-based expertise, in many cases these auditors possess expertise in lighting but have limited experience with other energy efficiency technologies. In addition to the direct benefits of these trainings, the events can serve to drive program participation by increasing awareness of energy efficiency incentives and services. Likewise, events help Company staff and program implementers form deeper relationships with attendees, increasing the likelihood that trade allies and customers will participate in the programs going forward to implement energy efficiency projects.

Commented [AC77]: What other efforts are being done to increase the number of new entrants and diversify the existing workforce? Language/cultural barriers to participation exist for some small business customers, so upskilling will not help reach this underserved segment

Commented [BE77R2]: see detail in the Workforce sections of the Main Text of the 2024 plan and 3-year plan

Commented [AC78]: If this is the case, then we need to do everything possible to drive participation in the events. For instance, the 3YP Customer Listening Sessions and some other recent focus groups conducted as part of evaluations did not always yield significant attendance. Can more be done to encourage engagement, can content be developed to be more digestible by a wider audience?

Commented [RIE78R2]: Thanks for the feedback. We will review outreach strategies to encourage participation.

Commented [DM79]: This section is outdated and should be considered for deletion.

Commented [RIE79R2]: Deleted

Commented [DM80]: This is contrary to my understanding that the supply chain challenges have been easing. The reference to 2022 suggests this text has not been updated.

Commented [RIE80R2]: Section deleted

Commented [DM81]: The ports of LA and Long Beach have returned to normal operations.

Commented [RIE81R2]: Noted

Commented [DM82]: Prices are stabilizing.

Commented [RIE82R2]: Noted

Supply Chain Disruption

The Company has observed significant supply chain disruptions since the outset of the pandemic. These have become worse over the course of 2022 as a result of extended lockdowns in China and the war in Ukraine/trade sanctions on Russia. These add to existing disruptions resulting from ongoing domestic truck driver shortages, constraints at ports, and insufficient supply relative to demand for some equipment. This has led to rising prices and significant delays for certain types of equipment. Like other employers, contractors have been impacted by the tight labor market, which has further compounded project cost increases and delays.

Where feasible, the Company and its vendors are working with customers to (1) identify alternative suppliers for equipment experiencing long lead times or major price increases and (2) order equipment as early as possible for energy efficiency projects. However, these phenomena affect the entire global economy. By and large, there is no easy fix, and the Company has limited control over the situation.

Code Changes for 2024

Regarding building codes, in its 2023 session, the Rhode Island General assembly passed legislation requiring the state to adopt the 2024 International Energy Conservation Code (2024 IECC) within 3-6 months of its release. Based on conversations with staff at the International Code Council (ICC), the 2024 IECC is expected to be released in mid-2024. The Company's standard practice is to not update a new construction baseline building code mid-program-year, and so the 2024 IECC will be used to update baseline assumptions for the 2025 program year.

Commented [AC83]: See prior comment on this - code does not always equate to baselines if ISP is different. If IECC 2024 is stringent enough then this may not be a concern.

Commented [RIE83R2]: Thank you.

Regarding appliance standards, the Company will make changes to the Upstream Initiative's new construction baseline assumptions for food services, lighting, and HVAC equipment as applicable. These strengthening standards help lower overall energy consumption at a macro level, however they lessen the claimable savings potential for affected measures as they close the gap between high-efficiency options and the least-efficient options available on the market. As baseline standards continue to rise, the Company will continue to identify and support appliances which still have significant claimable savings potential.

Commented [DM84]: Note that any measures using a CFL baseline, such as downlights, will need to be updated or removed. CFLs will be illegal for sale in Rhode Island in 2024. In 2025, the same will apply to linear fluorescent, which is the baseline for most indoor lighting measures. <https://cranstononline.com/stories/new-law-will-phase-out-mercury-containing-bulbs,217089>

Commented [RIE84R2]: Thank you for this information.

4. Small Business Direct Install Program

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4.1 Offerings

The Small Business Program offers a no-cost site assessment conducted by a Small Business Energy Specialist to understand the customer's energy-related needs and goals. This site assessment identifies energy efficiency measures including lighting systems and controls, cooler/refrigeration controls, water saving measures, HVAC controls, motor controls, weatherization/insulation and custom measures. The Small Business vendor offers turn-key installation and on-bill refinancing to support the adoption of the recommended energy efficiency measures to the customer.

The program also offers a Customer Directed Option pathway. In this pathway, customers may use their own electrician to install measures while the Small Business vendor processes and submits all necessary paperwork to the Company.

Commented [AC85]: What other requirements are necessary for participation in the CDO pathway? This pathway produces a smaller share of projects (~10-20% or so), but would be helpful to understand how quality is still ensured here

Commented [RIE85R2]: CDO pathways do not include managed or municipal accounts. Quality is ensured through a pre-inspection and post-inspected conducted by RISE.

4.2 Eligibility

Commercial customers who have less than 1.5 million kWh in annual usage may participate in the Small Business Program. K-12 schools, national and regional chain restaurants, and small grocery stores who consume less than 1.0 million kWh per year are excluded from this program as they are served through other pathways or initiatives.

Commented [TE86]: @Daniel Tukey (RI Energy) Per the C-Team: "Customers under 250,000 annual kWh comprise largest share of C&I customer demographic profile and have lowest participation rates – SBDI eligibility threshold expanded from 1.0 to 1.5 million kWh annual consumption. This should be coupled with an increase in savings goals and specific target for participation by microbusinesses to avoid further inequity." Anything to highlight on the participation goals regarding microbusinesses?

Commented [DE86R2]: The Company factored in the expanded SBDI threshold when developing the first draft planned savings and budget.

4.3 Implementation and Delivery

If a customer is interested in participating in the Small Business Program, they can sign up for an energy assessment by either calling, emailing or using an online form to express interest in the program. After this initial contact, the customer is connected to a dedicated Small Business Program representative to learn details about the program's processes and next steps. The program vendor schedules an assessment with the customer and an Energy Specialist will meet the customer at the scheduled time.

Commented [DM87]: Are there plans for proactive outreach, rather than just being reactive to customer interest?

Commented [RIE87R2]: This is explaining the process of intake and delivery. The company and its vendor proactively perform outreach throughout the year to reach these customers

The Energy Specialist performs an energy assessment, identifies strategies to pursue opportunities, reviews design considerations with the customer, and incorporates the energy efficiency measures identified into a proposal. The proposal reflects the installed costs, the expected energy savings and the applicable program incentives.

4.4 2024 Program Enhancements and Changes

4.4.1 Equity

4.4.1.1 Multilingual Outreach

In 2024, the Company will continue to incorporate two equity-related initiatives. The Company and its Small Business implementation vendor deploy bilingual auditors who speak either Spanish or Portuguese – the two most widely spoken languages besides English in Rhode Island. The program also has a Brand Manager on staff who is located in Cranston, RI and speak five languages. They are available for video conferences if necessary to assist with translation and outreach. The program will continue to target its marketing directly to Woman and Minority Owned Enterprises (WME). This effort extends beyond the WME businesses registered with the state and seeks to develop long-term relationships with groups such as the Rhode Island Black Business Association and the Rhode Island Hispanic Chamber of Commerce to determine how to better serve these businesses. The Company's vendor also canvasses in conjunction with local community organizations, such as Progresso Latino.

4.4.1.2 Main Streets Initiative and Microbusinesses

Finally, the Communities Initiative includes equity elements, including a focus on microbusinesses, as described in the Main Text of the 2024 Plan. The Company continues to integrate its program outreach efforts with the Main Streets Initiative to increase adoption of direct install energy efficiency measures among hard-to-reachunderserved microbusinesses in Rhode Island. In 2024, through its turnkey vendor, the Company will continue to target microbusinesses concentrated around the main streets of three communities. For each targeted community, the vendor will conduct targeted direct mail and/or social media followed by door-to-door outreach for 3-7 working days. For door-to-door canvassing, the vendor may seek to secure cooperation and support of local government leaders, community organizations, and neighborhood groups (e.g., chamber of commerce). The five communities targeted in 2024 are Pawtucket, Providence, Cranston, West Warwick and Middletown/Newport. The Company has committed to completing Main Streets initiative for a minimum of 3 out of these 5 communities in 2024. These communities contain Environmental Justice areas and are also targeted for enhanced outreach through the Company's Income Eligible programs.

Commented [AC88]: Critical to see continued efforts here - we will work collaboratively to expand even further to drive equitable outcomes

Commented [RIE88R2]: Noted

Commented [AC89]: Good. Aside from speaking the languages, efforts should continue to work on translated materials that effectively and clearly communicate program benefits/offers and how to participate. Some recent findings from (I think) Spanish email campaigns suggest high open rates, but low click rates on "click here for Spanish translation"-type links because the email subject lines were in English. A more robust effort to include more languages should also be included in a more detailed Language Access Plan

Commented [RIE89R2]: RISE has hired a Brand Manager who speaks five different languages and can translate as well as assist customers. They have also committed to explore additional alternative language campaigns for 2024,

Commented [AC90]: Important to continue this collaboration. Local community organizations should better understand how to meet the needs of their communities and also have relationships with customers. That said, RI Energy should understand the types of relationships that CBOs have with people - there could be local orgs that do not have favorable reputations for instance. But still encourage this collaboration overall

Commented [RIE90R2]: Noted

Commented [AC91]: Is it appropriate to label them as hard-to-reach? I would imagine that most of them wo... [8]

Commented [RIE91R2]: Updated

Commented [CS(92): Below it references 5 communities. Are you planning for 3 or 5 Main Street events in 2024? It's a bit unclear

Commented [FO92R2]: We are committing to completing a minimum of 3 out of these 5 communities mentioned.

Commented [RIE93]: Steven Chybowski: Below it references 5 communities. Are you planning for 3 or 5 Main Street events in 2024? It's a bit unclear ... [9]

Commented [RIE93R2]: We are committing to completing a minimum of 3 out of these 5 communities mentioned.

Commented [AC94]: Are East Providence, Central Falls, and Woonsocket the other communities that have been targeted previously? If so, then will there be plans to ... [11]

Commented [RIE94R2]: Yes, East Providence, Central Falls and Woonsocket have had or will have a Main Street event in 2023. Additional Main Street events in these ... [10]

4.4.2 Decarbonization

In 2024, the Company will look to develop a host of prescriptive and custom offerings to promote commercial weatherization and greenhouse gas emissions reductions. This will include the development of prescriptive weatherization and air sealing offerings for the Small Business Program and Retrofit Program. The Company also plans to work with OER to better understand electrification efforts being funded through state and federal programs.

Commented [AC95]: Has been good activity since the end of 2021 for weatherization. Does the Company have a sense of how many C&I/small business customers still use electric resistance heat? Significant potential was identified in the MPS Refresh for ASHPs/HPWHs

4.4.3 Increase Program Participation

In 2024, the Company will integrate Small Business Program outreach efforts with its Main Streets Initiative to reach more small businesses located in Environmental Justice Areas. In addition, the Company plans to deploy multilingual marketing materials and program materials in an effort to increase participation in the Small Business Program.

Commented [RIE95R2]: This is something we will have to look into and report back on

Commented [AC96]: Would like to see some more committal language here even though many of the state/federal programs are still in flux. Understanding is the first step, but that shouldn't be the only step described here. There are substantial challenges to commercial and industrial electrification/decarb depending on customer size/segment, and this will require creative strategies and consideration of all possible funding sources. But yes, thorough understanding is the first step so suggest that current and potential non-ratepayer programs be listed here even if not an exhaustive list. The OER Clean Heat Program is an immediate example - it will provide incentives to small businesses.

5. C&I Multifamily Program

5.1 Offerings

See Attachment 1: Multifamily Program.

Commented [RIE96R2]: Noted, we will continue to work closely with OER as more clarity around funding levels and what programs will be available to C&I customers.

5.2 Eligibility

See Attachment 1, Section 3, for eligibility information. In addition to the criteria listed in Attachment 1, Section 3, the C&I Multifamily Program provides joint residential and commercial energy services to condominiums and apartment complexes for energy efficiency upgrades with no cost audits. The program also serves customers like non-profits, group homes and houses of worship that traditionally do not fit within the predefined program structure.

Commented [AC97]: There have been some strange trends in costs/savings for this program (extremely high cost-to-achieve in sector data reports). Is this a reporting issue?

Commented [RIE97R2]: It is possible that the higher than expected cost-to-achieve is a result of a reporting issue. We will review the reporting data and determine what reporting adjustments might be needed

5.3 2024 Program Enhancements and Changes

See Attachment 1, Section 3, for 2024 program enhancements and changes.

6. Finance as an Enabling Strategy

Many customers face challenges in bringing energy efficiency projects to fruition. These may include structural limitations within a business, information overload, cultural resistance within companies, and

access to capital. The Company’s plan deals with the first three barriers in various ways, but this section of the plan focuses on mechanisms that can help customers afford to carry out energy efficiency upgrades and/or perceive costs differently.

6.1 Mechanisms Offered

The Company and its partners have developed four primary finance mechanisms to help customers afford energy efficiency upgrades, each with unique attributes. Some may only be available or apply to certain customers, building, or ownership types.

6.1.1 On Bill Repayment – Electric

On-Bill Repayment – Electric, for commercial customers who consume less than 1.50 million kWh per year	
Loan Size	\$1,000 to ~\$100,000 (may be larger for SEMP Initiative)
Maximum Tenor	5 years for commercial accounts, 7-10 years for State facilities
Loan Volume	Variable, between \$5.0M to \$10M per year
Benefits to Customer	No formal credit check/ rapid approval, on bill repayment, zero interest
Limitations	Maximum tenor too short for many comprehensive upgrade
More Information	The Company’s most recent Small Business revolving loan fund projections are illustrated in Attachment 5, Table E-10
Relevant Notes	

6.1.2 On Bill Repayment – Electric Small Business

On-Bill Repayment – Electric Small Business, for commercial customers who consume less than 1.50 million kWh per year	
Loan Size	\$500 to \$50,000
Maximum Tenor	5 years
Loan Volume	Variable, between \$1.8M and \$3.0M per year
Benefits to Customer	No formal credit check / rapid approval, on-bill repayment, zero percent interest
Limitations	Maximum tenor too short for many comprehensive upgrades, cannot be used to support upgrades customers may want, such as windows and roofs as they have a benefit-cost ratio less than 1.0

Commented [AC98]: Is this only for electric measures? Ask because envelope measures produce gas savings/are treated as gas measures. Are all Wx/envelope measures ineligible for OBR?

Commented [RIE98R2]: See below - for On Bill Repayment for natural gas savings/measure

On-Bill Repayment – Electric Small Business, for commercial customers who consume less than 1.00 million kWh per year

More Information	The Company’s most recent Small Business revolving loan fund projections are illustrated in Attachment 5, Table E-10
Relevant Notes	

6.1.3 On Bill Repayment – Natural Gas

On-Bill Repayment – Natural Gas, all commercial gas customers

Loan Size	\$1,000 to ~\$100,000 (may be larger for SEMP Initiative or special projects)
Maximum Tenor	3 years for commercial accounts, 5 years for State facilities
Loan Volume	Variable, between \$1.0M and \$1.5M per year
Benefits to Customer	No formal credit check / rapid approval, on-bill repayment, zero percent interest
Limitations	Maximum tenor too short for many comprehensive upgrades, cannot be used to support upgrades customers may want, such as windows and roofs as they have a benefit-cost ratio less than 1.0
More Information	The Company’s most recent Natural Gas revolving loan fund projections are illustrated in Attachment 6, Table E-10
Relevant Notes	

6.1.4 Efficient Buildings Fund

Efficient Buildings Fund, state agencies, quasi-state agencies and municipalities

Loan Size	More than \$5M
Maximum Tenor	Up to 20 years
Loan Volume	Variable, over \$60M in loans closed to date
Benefits to Customer	Below market rate interest, long tenor and loan amounts can be large enough to make comprehensive building wide improvements
Limitations	Appropriate customers must file applications and be ranked against other potential loan applicants
More Information	More details on this program can be found online at the Rhode Island Infrastructure Bank webpage and the OER Resources webpage

Efficient Buildings Fund, state agencies, quasi-state agencies and municipalities	
Description	The Efficient Buildings Fund is a long-term, below-market financing option for municipalities and quasi-public agencies to complete energy efficiency and renewable energy projects. The fund is administered in partnership with OER and the Rhode Island Infrastructure Bank (RIIB). OER is responsible for determining project eligibility, reviewing project applications, and producing a Project Priority List. RIIB only finances projects that are listed on the Project Priority List
2024 Actions	RIIB and OER will administer the program and the Company will continue to provide technical, logistical and incentive support to municipal customers

6.1.5 Public Sector Revolving Loan Fund

The Public Sector Revolving Loan fund was a predecessor of the Efficient Buildings Fund. It was funded by Regional Greenhouse Gas Initiative (RGGI) funds controlled by OER. This fund no longer makes loans. As funds are repaid from previous disbursements, they are periodically transferred back to RI OER to be used at their discretion. More details on this fund can be found in Attachment 5, Table E-9.

6.1.6 Commercial Property Assessed Energy (C-PACE)

C-PACE, owners of non-residential properties	
Maximum Loan Size	Limited by the financial health of the building
Maximum Tenor	Average measure life of all upgrades, can exceed 15 years
Loan Volume	Variable
Benefits to Customer	Can be structured to be cash flow positive, no personal guarantees, financing can be used to finance a wide variety of improvements related to energy, may be considered an operating expense
Limitations	Minimum transaction value of ~\$50,000, preferred \$100,000+

6.1.7 Ascentium Rental Agreement

Ascentium Rental Agreement, owners of non-residential properties	
Maximum Loan Size	No stated limit
Maximum Tenor	Variable

Ascentium Rental Agreement, owners of non-residential properties	
Loan Volume	Variable
Benefits to Customer	Rapid preliminary approval, rental product is considered an operating cost
Limitations	Specific terms of the agreement may not be attractive to some customer types, including any that are reluctant to take on debt

7. Marketing to C&I Customers

In 2024, RI Energy will continue existing campaigns for all commercial customers, with messaging that will focus on helping customers connect with the resources, financing, and expertise they need. The campaign includes messaging about how energy efficiency can help address high energy prices.

For customer targeting and media planning, the Company continues to utilize its existing market research insights data and customer personas (see Figure X Commercial Customer Persona Research) for business customers. The Company aims to represent the voice of the customer in all campaign planning. The Company will continue to utilize commercial customer persona research to inform our key messages and marketing channel selection. RI Energy will pay close attention to how economic conditions impact customers and maintain a nimble approach. These conditions include inflation, labor market shortages, long term market changes resulting from COVID-19, and a potential recession.

Figure X Commercial Customer Persona Research

★ Lean & Green	Small & Seamless	★ Seeking Solutions
<ul style="list-style-type: none"> Smallest customers based on usage Most environmentally conscious, interested in green-related products Among the most open to purchasing from NG 	<ul style="list-style-type: none"> Small customers Interested in tools to manage accounts Skew to Real Estate The least open to purchasing from NG 	<ul style="list-style-type: none"> Medium customers Interested in bill and usage information, financing options Skews to Retail/Food The most open to purchasing from NG

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No Frills	★ Big Business
<ul style="list-style-type: none"> • Medium customers • Most interested in the basics of customer service and emergency response • Among least open to purchasing from NG 	<ul style="list-style-type: none"> • Largest customers • More interested in advice, tools to track usage and savings • Lowest level of barriers to energy improvements • Skews to Industrial, Public Sector

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In 2024, the Company will continue to leverage digital marketing, paid search and social media marketing, print advertising, email campaigns as well as public relations. Earned media/PR is an integrated component of the marketing strategy, including media relations and influencer engagement.

RI Energy's paid media primarily targets direct decision makers for capital budgets and facilities projects, C-suite executives, facility managers, and small business owners. A portion of advertising and communications are also dedicated to targeting other key influencers who influence energy project go-forward decisions, such as distributors, PEX's, engineers, and architects who may have existing relationships with customers.

In 2024, the Company will adjust tone and messaging as appropriate to remain sensitive to our customers' needs. RI Energy will continue to update its website and campaign landing pages to reflect key messages, strategies, and general core values and has also increased focus on providing industry-specific messaging and information wherever possible.

Finally, the Company will tie its marketing activities to the energy efficiency program priorities described elsewhere in this plan. This includes:

- Promoting planned Workforce Development activities, potentially via social media.
- Refining fact sheets to explain program focus areas such as Building Analytics, ESPO, or lighting controls.
- Developing case studies to highlight efficiency opportunities in specific market sectors.

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Throughout 2023, marketing continued to increase program participation amongst Large Commercial & Industrial Customers, Small Businesses, and Multifamily properties. Beginning in January 2024, Rhode Island Energy is launching a new campaign for all commercial customers, with messaging that will focus on helping customers connect with the resources, financing, and expertise they need. The new campaign will include messaging about how energy efficiency can help address high energy prices.

The Company aims to represent the voice of the customer in all campaign planning. Rhode Island Energy will pay close attention to how economic conditions impact customers and maintain a nimble approach.

These conditions include inflation, labor market shortages, long-term market changes resulting from COVID-19, and a potential recession.

The Company will continue to leverage digital marketing, paid search and social media marketing, print advertising, direct mail, and email campaigns. Partnerships with Providence Business News, www.pbn.com, and www.bizjournals.com/rhodeisland/ proved especially effective in making a local connection with businesses in Rhode Island.

RI Energy's paid media primarily targets direct decision-makers for capital budgets and facilities projects, C-suite executives, facility managers, and small business owners. A portion of advertising and communications are also dedicated to targeting other key influencers who influence energy project go-forward decisions, such as distributors, PEX's, engineers, and architects who may have existing relationships with customers.

The Company will continue to adjust tone and messaging as appropriate to remain sensitive to our customers' needs. Rhode Island Energy updates its website and campaign landing pages to reflect key messages, strategies, and general core values and has also increased focus on providing industry-specific messaging and information wherever possible. A new and improved website is expected to launch in May 2024.

Finally, the Company will tie its marketing activities to the energy efficiency program priorities described elsewhere in this plan. This includes:

- Promoting planned Workforce Development activities, potentially via social media.
- Developing fact sheets to explain program focus areas such as Building Analytics, ESPO, or lighting controls.
- Developing case studies to highlight efficiency opportunities in specific market sectors.

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8. Commercial and Industrial Measures and Incentives

Table 5 Table 4 below lists the planned measures for the electric Commercial and Industrial programs, by program, along with the planned quantities (in kWh or MMBtu savings), incentives per quantity, total incentives, and annual and lifetime savings. Table 6 Table 5 Table 5 shows planned costs in non-incentive cost categories for each program that are not allocated at the measure level. Table 6 Table 7 Table 7 Table 6 and Table 8 Table 7 show the same information for the planned Gas program, respectively.

Table 5. Table 4--Planned Measures for Electric Commercial and Industrial Programs

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Program	Measure	Quantity (kWh)	Incentive / Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
Large C&I New Construction	Advanced Building	477090.00	\$0.45	\$214,690.50	170.83	2733.24	47.67	6.41	67.33	1077.24
	Air Cooled AC - 11.25-20 T	41412.80	\$0.25	\$10,353.20	21.95	329.23	1.90	0.00	8.65	129.76
	Air Cooled AC - 20-63 T	27353.73	\$0.25	\$6,838.43	14.50	217.46	1.25	0.00	5.71	85.71
	Air Cooled AC - 5.4-11.25 T	159868.00	\$0.25	\$39,967.00	84.73	1270.95	7.32	0.00	33.39	500.91
	Air Cooled AC - over 63 T	13294.65	\$0.25	\$3,323.66	7.05	105.69	0.61	0.00	2.78	41.66
	AirChiller - 150to300T	34431.36	\$0.26	\$8,952.15	28.12	646.84	7.70	1.47	11.08	254.94
	AirChiller - IPLV	34431.36	\$0.26	\$8,952.15	28.12	646.84	7.70	1.47	11.08	254.94
	AirChiller - Peak	34431.36	\$0.26	\$8,952.15	28.12	646.84	7.70	1.47	11.08	254.94
	AirChiller - to150T	34431.36	\$0.26	\$8,952.15	28.12	646.84	7.70	1.47	11.08	254.94
	AirHP - 11.25-20T	2366.45	\$0.13	\$296.00	1.37	16.40	0.19	0.00	0.34	6.46
	AirHP - 5.4-11.25T	3654.13	\$0.15	\$544.00	2.11	25.32	0.29	0.00	0.83	9.98
	AirHP - Pkg to5.4T	250000.00	\$0.40	\$100,000.00	144.38	1732.50	19.98	0.00	56.90	682.82
	Boiler, Draft Fan	7882.80	\$0.31	\$2,463.38	4.85	72.69	0.38	0.38	1.91	28.65
	Boiler, Feedwater Pump	7882.80	\$0.31	\$2,463.38	4.85	72.69	0.38	0.38	1.91	28.65
	Building Exhaust Fan	7882.80	\$0.31	\$2,463.38	4.85	72.69	0.38	0.38	1.91	28.65
	Building Shell	4616.64	\$0.50	\$2,308.32	3.11	77.85	0.00	0.00	1.23	30.68
	Chiller	575194.75	\$0.53	\$304,278.02	387.96	8923.11	52.25	58.72	152.91	3516.82
	Chiller, Water Pump	7882.80	\$0.31	\$2,463.38	4.85	72.69	0.38	0.38	1.91	28.65
	CODES AND STANDARDS	341598.00	\$0.00	\$0.00	341.60	6831.96	0.00	0.00	134.63	2692.65
	Commercial Electric Combination Oven	20287.60	\$0.18	\$3,651.77	15.36	184.29	2.89	2.89	6.05	72.63
	Commercial Electric Convection Oven	32005.90	\$0.23	\$7,464.60	24.23	290.74	4.56	4.56	9.55	114.59
	Commercial Electric Fryer - Large	1437.50	\$0.10	\$139.15	1.09	13.06	0.20	0.20	0.43	5.15
	Commercial Electric Fryer - Standard	1845.12	\$0.09	\$170.50	1.40	16.76	0.26	0.26	0.55	6.61
	Commercial Electric Grididle	3380.00	\$0.31	\$1,050.00	2.56	30.70	0.48	0.48	1.01	12.10
	Commercial electric steamer	30487.72	\$0.08	\$2,325.30	23.08	276.95	4.35	4.35	9.10	109.15
	Commercial Refrigeration	973948.92	\$0.46	\$448,016.50	656.92	9853.74	69.15	89.99	258.91	3883.60
	Comprehensive Design	477090.00	\$0.44	\$209,919.60	170.83	2733.24	47.67	6.41	67.33	1077.24
	Compressed Air	2812814.64	\$0.39	\$1,099,810.52	1897.21	28458.10	233.93	278.03	747.74	11216.05
	Compressed Air Nozzle	7500.00	\$0.28	\$2,100.00	8.18	122.63	0.76	0.62	3.22	48.33
	Conveyor Broiler - >28" wide	3161.00	\$0.98	\$3,100.00	2.39	28.71	0.45	0.45	0.94	11.32
	Cooling Tower Fan	7882.80	\$0.31	\$2,463.38	4.85	72.69	0.38	0.38	1.91	28.65
	Custom HVAC	1557819.12	\$0.53	\$824,086.31	1050.73	16811.66	141.52	159.04	414.12	6625.90
	Deck Oven	56392.80	\$0.30	\$16,875.00	42.69	512.27	8.04	8.04	16.82	201.90
	DHW ECM Pump - <= 1/8 HP	3788.40	\$0.39	\$1,481.26	2.87	57.36	0.63	0.63	1.13	22.61
	DHW ECM Pump - <=1/20 HP	5034.00	\$0.39	\$1,968.29	3.81	76.21	0.00	0.00	1.50	30.04
	DHW ECM Pump - 1/20 to 1/8 HP	5034.00	\$0.39	\$1,968.29	3.81	76.21	0.00	0.00	1.50	30.04
	DHW ECM Pump - 1/6 to 3/4 HP	5034.00	\$0.39	\$1,968.29	3.81	76.21	0.00	0.00	1.50	30.04
	DHW ECM Pump - 1/8 to 1/6 HP	5034.00	\$0.39	\$1,968.29	3.81	76.21	0.00	0.00	1.50	30.04
	DHW ECM Pump - 3/4 to 3 HP	5034.00	\$0.39	\$1,968.29	3.81	76.21	0.00	0.00	1.50	30.04
	Dishwasher - High Temperature Door Type	4117.79	\$0.22	\$917.60	3.12	46.76	0.59	0.59	1.23	18.43
	Dishwasher - High Temperature Multi Tank Conveyor	2783.07	\$0.10	\$267.33	2.11	42.14	0.40	0.40	0.83	16.61
	Dishwasher - High Temperature Pots and Pans	1548.00	\$0.90	\$1,387.50	1.17	11.72	0.22	0.22	0.46	4.62
	Dishwasher - High Temperature Single Tank Conveyor	5728.05	\$0.36	\$2,058.75	4.34	86.72	0.82	0.82	1.71	34.18
	Dishwasher - High Temperature Under Counter	16530.93	\$0.29	\$4,845.75	12.51	125.14	2.36	2.36	4.93	49.32
	Dishwasher - Low Temperature Single Tank Conveyor	3821.00	\$0.01	\$49.05	2.89	57.85	0.54	0.54	1.14	22.80
	Dishwasher - Low Temperature Under Counter	1529.24	\$0.15	\$228.19	1.16	11.58	0.22	0.22	0.46	4.56
	Dual enthalpy economizer controls	2722.00	\$0.09	\$250.00	2.06	20.61	0.82	0.82	1.63	8.12
	ECM Pump - <= 1/8 HP	54728.80	\$0.30	\$16,539.20	41.43	828.59	5.39	5.39	16.33	326.57
	ECM Pump - <=1/20 HP	18242.40	\$0.30	\$5,512.80	13.81	276.19	2.53	2.53	5.44	108.85
	Electric HW Spray Valve	20334.00	\$0.58	\$11,692.05	15.39	76.96	2.90	2.90	6.07	30.33
	EMS	1727100.96	\$0.53	\$913,636.41	1164.91	17473.61	156.90	176.32	459.12	6886.79
	Food Service	38551.68	\$0.39	\$15,073.71	26.00	286.03	0.00	0.00	10.25	112.73
	Freezer Glass Door - <15 ft3	427.00	\$0.53	\$225.00	0.32	3.88	0.06	0.06	0.13	1.53
	Freezer Glass Door - >50 ft3	1486.00	\$0.20	\$299.00	1.12	19.50	0.21	0.21	0.44	5.32
	Freezer Glass Door - 15 to 29.9 ft3	681.00	\$0.48	\$325.00	0.52	6.19	0.10	0.10	0.20	2.44
	Freezer Glass Door - 30 to 49.9 ft3	1062.00	\$0.19	\$200.00	0.80	9.65	0.15	0.15	0.32	3.80
	Freezer Solid Door - <15 ft3	2120.00	\$1.06	\$2,250.00	1.60	19.26	0.30	0.30	0.63	7.59
	Freezer Solid Door - >50 ft3	589.00	\$0.51	\$300.00	0.45	5.35	0.08	0.08	0.18	2.11
	Freezer Solid Door - 15 to 29.9 ft3	7290.00	\$0.67	\$4,875.00	5.52	66.22	1.04	1.04	2.17	26.10
	Freezer Solid Door - 30 to 49.9 ft3	17312.00	\$0.37	\$6,400.00	13.11	157.26	2.47	2.47	5.17	61.98
	Freezer, Ultra Low Temperature	145433.00	\$0.40	\$58,182.64	110.09	1100.93	20.74	20.74	43.39	433.90
	Hand Wrapper	3130.00	\$0.07	\$220.00	2.37	23.69	0.45	0.45	0.93	9.34
	Heating Hot Water Pump	15765.60	\$0.31	\$4,926.75	11.22	168.28	0.87	0.87	4.42	66.32
	High Efficiency Condensing Units - Floating Head Pressure Control	104689.00	\$0.29	\$30,525.00	79.25	1030.24	11.62	10.39	31.23	406.05
	High Efficiency Condensing Units - Scroll Compressor	104689.00	\$0.29	\$30,525.00	79.25	1030.24	11.62	10.39	31.23	406.05
	High Performance Contact Conveyor Toaster	1000.00	\$0.70	\$700.00	0.84	10.08	0.12	0.12	0.33	3.97
	Hot Food Holding Cabinet - 1/2	26214.30	\$0.59	\$15,561.00	19.84	238.13	3.74	3.74	7.82	93.85
	Hot Food Holding Cabinet - 3/4	4369.05	\$0.73	\$3,192.00	3.31	39.69	0.62	0.62	1.30	15.64

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The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 2: Proposed Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	Hot Food Holding Cabinet - Full	10920.63	\$0.35	\$3,790.50	8.27	99.20	1.56	1.56	3.26	39.10
	HVAC Fan - Return	15765.60	\$0.31	\$4,926.75	11.22	168.28	0.87	0.87	4.42	66.32
	HVAC Fan - Supply	15765.60	\$0.31	\$4,926.75	11.22	168.28	0.87	0.87	4.42	66.32
	Ice Machine - Cont. Remote	5202.00	\$0.09	\$450.00	3.94	31.50	0.74	0.74	1.55	12.42
	Ice Machine - Ice Making Head	46914.00	\$0.25	\$11,550.00	35.51	284.11	6.69	6.69	14.00	111.98
	Ice Machine - Ice Self Contained	3220.00	\$0.28	\$900.00	2.44	19.50	0.46	0.46	0.96	7.69
	Ice Machine - Remote/Split	7282.00	\$0.06	\$450.00	5.51	44.10	1.04	1.04	2.17	17.38
	LEDs	122304.60	\$0.35	\$42,195.09	88.33	1324.89	18.48	10.46	34.81	522.17
	Lighting Controls - Dimming	154947.00	\$0.22	\$34,088.34	111.20	1000.76	10.17	9.21	37.84	340.56
	Lighting Controls - Exterior	117000.00	\$0.22	\$25,740.00	83.96	755.67	7.68	7.03	28.57	257.16
	Lighting Controls - Interated	117000.00	\$0.22	\$25,740.00	83.96	755.67	7.68	7.03	28.57	257.16
	Lighting Controls - Sensor	135805.80	\$0.22	\$29,877.28	97.46	877.13	8.91	8.16	33.17	298.49
	Lighting Controls - Street Light Exterior	117000.00	\$0.22	\$25,740.00	83.96	755.67	7.68	7.03	28.57	257.16
	Lighting Controls, Custom	64350.00	\$0.35	\$22,200.75	46.47	418.25	9.72	5.50	18.32	164.84
	Lighting Systems, Custom	122304.60	\$0.35	\$42,195.09	88.33	1324.89	18.48	10.46	34.81	522.17
	LOADCOMP-25HP	104745.60	\$0.28	\$29,328.77	114.18	1712.72	10.64	8.73	45.00	675.02
	LOADCOMP-75HP	104745.60	\$0.28	\$29,328.77	114.18	1712.72	10.31	8.45	45.00	675.02
	Low pressure drop filter	7500.00	\$0.28	\$2,100.00	8.18	40.88	0.74	0.61	3.22	16.11
	Make Up Air Fan	2032.80	\$0.31	\$635.25	1.45	21.70	0.11	0.11	0.57	8.55
	MFHR - Cooling	6278.40	\$0.39	\$2,448.58	4.75	118.82	0.00	0.00	1.87	46.83
	MFHR - Driw	6278.40	\$0.39	\$2,448.58	4.75	71.29	0.00	0.00	1.87	28.10
	MFHR - Heating	6278.40	\$0.39	\$2,448.58	4.75	118.82	0.00	0.00	1.87	46.83
	MFHR - Lighting	6278.40	\$0.39	\$2,448.58	0.00	0.00	0.00	0.00	0.00	0.00
	Motor	58140.00	\$0.22	\$12,790.80	39.21	784.29	7.86	7.46	15.46	309.11
	ODP-1200F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-1200N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-1200S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-1800F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-1800N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-1800S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-3600F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-3600N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	ODP-3600S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	Other	55383.84	\$0.39	\$21,655.08	37.26	373.56	3.86	5.86	14.72	147.23
	Packaged Terminal Air Conditioner	48088.63	\$0.25	\$12,022.16	26.45	396.73	2.29	0.00	10.42	156.36
	PEI H2O PUMP - COMM. C	180599.64	\$0.12	\$21,671.96	98.50	1477.49	19.18	1.68	38.82	582.31
	Performance Lighting - Tier 1 Exterior	133640.10	\$0.22	\$29,400.82	95.90	1438.57	8.77	8.03	32.64	489.55
	Performance Lighting - Tier 1 Interior	786903.15	\$0.22	\$173,118.69	564.71	8470.65	51.64	47.27	192.17	2882.60
	Performance Lighting Tier 2 & 3 Exterior	99000.00	\$0.22	\$21,780.00	71.05	1065.69	6.50	5.95	24.18	362.66
	Performance Lighting Tier 2 & 3 Interior	99000.00	\$0.22	\$21,780.00	71.05	1065.69	6.50	5.95	24.18	362.66
	Performance Lighting, Custom	122304.60	\$0.35	\$42,195.09	88.33	1324.89	18.48	10.46	34.81	522.17
	Prescriptive Lighting - Compact	55000.00	\$0.22	\$12,100.00	39.47	592.05	3.61	3.30	13.43	201.48
	Prescriptive Lighting - Custom	55000.00	\$0.22	\$12,100.00	39.47	592.05	3.61	3.30	13.43	201.48
	Prescriptive Lighting - EXT-24/7	111702.60	\$0.25	\$27,925.65	80.16	1202.43	7.33	6.71	27.28	409.19
	Prescriptive Lighting - EXT-DUSKDAWN	284896.80	\$0.22	\$62,677.30	204.45	3066.78	18.70	17.11	69.58	1043.64
	Prescriptive Lighting - Fluorescent	55000.00	\$0.22	\$12,100.00	39.47	592.05	3.61	3.30	13.43	201.48
	Prescriptive Lighting - LED Case Ref	55000.00	\$0.22	\$12,100.00	39.47	592.05	3.61	3.30	13.43	201.48
	Prescriptive Lighting - LED General	1084660.50	\$0.22	\$238,625.31	778.39	11675.87	71.19	65.15	264.89	3973.36
	Prescriptive Lighting - LED Sign	99000.00	\$0.22	\$21,780.00	71.05	1065.69	6.50	5.95	24.18	362.66
	Process	1129128.00	\$0.34	\$383,903.52	761.58	11423.73	115.76	151.02	300.16	4502.38
	Process Cooling	289265.76	\$0.32	\$93,143.57	195.11	2926.59	29.66	38.69	76.90	1153.44
	Process Exhaust Fan	7882.80	\$0.31	\$2,463.38	5.61	84.14	0.44	0.44	2.21	33.16
	Process, Cool Pump	7882.80	\$0.31	\$2,463.38	5.61	84.14	0.44	0.44	2.21	33.16
	Refrigerated Air Dryer - CAT<100	20781.60	\$0.28	\$5,818.85	22.65	294.50	2.11	1.73	8.93	116.07
	Refrigerated Air Dryer - CAT>400	20781.60	\$0.28	\$5,818.85	22.65	294.50	2.11	1.73	8.93	116.07
	Refrigerated Air Dryer - CAT=200	20781.60	\$0.28	\$5,818.85	22.65	294.50	2.11	1.73	8.93	116.07
	Refrigerated Air Dryer - CAT=300	20781.60	\$0.28	\$5,818.85	22.65	294.50	2.11	1.73	8.93	116.07
	Refrigerated Air Dryer - CAT=400	20781.60	\$0.28	\$5,818.85	22.65	294.50	2.11	1.73	8.93	116.07
	Refrigerated Chef Base - 35" to 54"	1051.00	\$0.52	\$550.00	0.80	9.55	0.15	0.15	0.31	3.76
	Refrigerated Chef Base - 74" to 89"	1986.00	\$0.28	\$550.00	1.50	18.04	0.28	0.28	0.59	7.11
	Refrigerator Glass Door - <15 ft3	3675.00	\$0.92	\$3,375.00	2.78	33.38	0.52	0.52	1.10	13.16
	Refrigerator Glass Door - >50 ft3	3660.00	\$0.61	\$2,250.00	2.77	33.25	0.52	0.52	1.09	13.10
	Refrigerator Glass Door - 15 to 29.9 ft3	11666.00	\$0.57	\$6,650.00	8.83	105.97	1.66	1.66	3.48	41.77
	Refrigerator Glass Door - 30 to 49.9 ft3	22680.00	\$0.42	\$9,450.00	17.17	206.03	3.23	3.23	6.77	81.20
	Refrigerator Solid Door - <15 ft3	2550.00	\$1.32	\$3,375.00	1.93	23.16	0.36	0.36	0.76	9.13
	Refrigerator Solid Door - >50 ft3	1880.00	\$1.00	\$1,875.00	1.42	17.08	0.27	0.27	0.56	6.73
	Refrigerator Solid Door - 15 to 29.9 ft3	8160.00	\$0.69	\$5,600.00	6.18	74.13	1.16	1.16	2.43	29.21
	Refrigerator Solid Door - 30 to 49.9 ft3	4410.00	\$1.33	\$5,850.00	3.34	40.06	0.63	0.63	1.32	15.79
	Room Air Cleaner - K-12	10949.90	\$0.26	\$2,896.25	8.04	24.12	1.17	1.17	3.17	9.51
	Room Air Cleaner - Office	10949.90	\$0.26	\$2,896.25	8.04	24.12	1.17	1.17	3.17	9.51
	Room Air Cleaner - Retail	10949.90	\$0.26	\$2,896.25	8.04	24.12	1.17	1.17	3.17	9.51
	Sensors	10949.90	\$0.26	\$2,846.97	8.94	89.44	2.45	2.45	3.53	35.25
	Split system AC to 5.4 tons	55305.73	\$0.25	\$13,826.43	29.31	439.68	2.53	0.00	11.55	173.29
	TEFC-1200F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-1200N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-1200S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55

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Table 2: Proposed Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	TEFC-1800F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-1800N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-1800S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-3600F	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-3600N	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	TEFC-3600S	2032.80	\$0.29	\$589.51	1.45	21.70	0.11	0.11	0.57	8.55
	Transformers	3788.40	\$0.40	\$1,515.36	2.56	58.77	0.00	0.00	1.01	23.16
	VARICOMP_75HP	83796.48	\$0.31	\$25,976.91	91.34	1370.17	8.31	6.81	36.00	540.02
	Vending Miser - Glass Front Refrigerated Coolers	1200.00	\$0.70	\$840.00	1.04	5.22	0.11	0.11	0.41	2.06
	Vending Miser - Non-Refriidgerated Snack Vending Machines LUPSTR	1200.00	\$0.70	\$840.00	1.04	5.22	0.11	0.11	0.41	2.06
	Vending Miser - Refrigerated Beverage Vending Machines LUPSTR	1200.00	\$0.70	\$840.00	1.04	5.22	0.11	0.11	0.41	2.06
	VFD Secondary	2032.80	\$0.31	\$635.25	1.45	21.70	0.11	0.11	0.57	8.55
	VRF HP - 11.25T-20T	261577.60	\$0.31	\$81,899.47	82.40	1400.75	6.92	0.00	32.47	552.07
	VRF HP - 5.4T-11.25T	590565.60	\$0.27	\$156,572.52	186.03	3162.48	15.63	0.00	73.32	1246.41
	VRF HP - over 20T	10612.51	\$0.23	\$2,408.81	3.34	56.83	0.00	0.00	1.32	22.40
	VSD Compressor (15<=HP<=75)	83796.48	\$0.22	\$18,435.23	91.34	1187.48	8.25	6.76	36.00	468.02
	VSD-Non HVAC	123122.16	\$0.22	\$27,086.88	32.91	493.66	6.60	6.26	12.97	194.56
	Water Source Heat Pump	2520.00	\$0.45	\$1,134.00	2.00	24.04	0.00	0.00	0.79	9.47
	WCChill - 150-300T IPLV	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 150-300T IPLV_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 150-300T IPLV_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 150-300T PkW	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 150-300T PkW_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 150-300T PkW_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 300-1000T IPLV	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 300-1000T PkW	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 30-70T	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - 70-150T	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - over300T IPLV_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - over300T IPLV_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - over300T PkW_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - over300T PkW_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - tot150T IPLV_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - tot150T IPLV_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - tot150T PkW_CEN	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	WCChill - tot150T PkW_SCR	1680.00	\$0.30	\$504.00	1.37	31.56	0.38	0.07	0.54	12.44
	Zero loss condensate drain	23619.60477	\$0.28504	\$6,613.495214	25.75470	386.212733	2.32477	1.9164	10.15673	152.211077
	Air-Cooled AC - 11.25-20T	694	\$0.25	\$173.50	4.4	41.0	2.4	0.0	16.3	244.8
	Air-Cooled AC - 20-63T	41413	\$0.25	\$10,353	41.4	410.3	2.4	0.0	10.8	244.8
	Air-Cooled AC - 5.4-11.25T	27354	\$0.25	\$6,838	27.4	239.0	1.9	0.0	6.0	161.7
	Air-Cooled AC - over-63T	159868	\$0.25	\$39,967	159.9	189.4	1.1	0.0	5.2	945.1
	AirChiller - 150to300T	13205	\$0.25	\$3,301	12.3	85.4	10.2	1.9	14.6	78.6
	AirChiller - IPLV	34431	\$0.26	\$8,952	37.2	298.8	10.2	1.9	14.6	236.8
	AirChiller - Peak	24431	\$0.26	\$6,352	27.2	224.8	10.2	1.9	14.6	236.8
	AirChiller - to150T	34431	\$0.26	\$8,952	37.2	298.8	10.2	1.9	14.6	236.8
	AirHP - 11.25-20T	24431	\$0.26	\$6,352	27.2	224.8	0.3	0.0	1.0	236.8
	AirHP - 5.4-11.25T	2466	\$0.13	\$320	2.5	46.0	0.5	0.0	1.5	11.8
	AirHP - Pkg.to5.4T	3654	\$0.35	\$1,279	3.8	315.0	36.3	0.0	103.5	181
	Boiler, Draft Fan	250000	\$0.40	\$100,000	262.5	72.7	0.4	0.4	1.9	1241.5
	Boiler, Feedwater Pump	7883	\$0.31	\$2,463	4.8	84.1	0.4	0.4	2.2	28.6
	Building Exhaust Fan	7883	\$0.31	\$2,463	5.6	72.7	0.4	0.4	1.9	28.6
	Building Shell	7883	\$0.31	\$2,463	4.8	72.7	0.0	0.0	1.1	28.6
	Chiller	4612	\$0.50	\$2,306	2.9	8232.2	47.6	47.2	142.8	28.6
	Chiller, Water Pump	575195	\$0.53	\$304,238	362.3	84.1	0.4	0.4	2.2	2382.9
	CODES AND STANDARDS	7883	\$0.31	\$2,463	5.6	6822.0	0.0	0.0	134.6	23.2
	Commercial Electric-Combination Oven	241598	\$0.00	\$0	241.6	219.4	2.4	2.4	7.2	2692.6
	Commercial Electric-Convection Oven	24152	\$0.18	\$4,347	18.3					86.5
	Commercial Electric Fryer - Large					417.7	6.6	6.6	13.7	
	Commercial Electric Fryer - Standard	45986	\$0.23	\$10,725	24.8					164.6
	Commercial Electric Griddle					20.6	0.3	0.3	0.7	
	Commercial electric steamer	2273	\$0.40	\$920	1.7					8.1
	Commercial Refrigeration					21.6	0.3	0.3	0.7	
	Comprehensive Design	2381	\$0.09	\$220	1.8					8.5
	Compressed Air	3280	\$0.21	\$689	2.6	246.5	3.9	3.9	8.1	12.1
	Conveyor Belts - 28" wide	27140	\$0.08	\$2,070	20.5					97.2
	Cooling Tower Fan					9201.2	62.0	72.4	241.8	
	Custom HVAC	973949	\$0.46	\$448,017	612.4	2722.2	47.7	6.4	67.3	2626.4
	Deck Oven	477090	\$0.44	\$209,920	170.8	26573.7	213.0	224.4	698.2	1077.2
	DHW-ECM Pump - 1/8 HP	3812815	\$0.39	\$1,099,811	1771.6	132.6	0.8	0.6	3.3	10473.3
	DHW-ECM Pump - 1/20 HP	7500	\$0.26	\$1,950	8.2	37.9	0.6	0.6	1.2	48.3
	DHW-ECM Pump - 1/20 to 1/8 HP	3161	\$0.98	\$3,100	3.2					14.9
	DHW-ECM Pump - 1/6 to 3/4 HP					84.1	0.4	0.4	2.2	

The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 2. Proposed Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive / Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	DHW-ECM-Pump-1/2 to 1/6 HP	7983	\$0-31	\$2,463	5.6	15698.4	128.9	127.9	386.7	33.2
	DHW-ECM-Pump-3/4 to 3-HR	1557819	\$0-53	\$824,086	981.2	512.3	8.0	8.0	16.8	6187.1
	Dishwasher-High-Temperature-Door-Type	56392	\$0-20	\$16,875	42.7	75.8	0.8	0.8	1.5	201.9
	Dishwasher-High-Temperature-Multi-Tank Conveyor	2788	\$0-39	\$1,481	3.8					29.9
	Dishwasher-High-Temperature-Pots-and-Pans Conveyor	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Dishwasher-High-Temperature-Single-Tank Conveyor	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Dishwasher-High-Temperature-Under-Counter	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Dishwasher-Low-Temperature-Single-Tank Conveyor	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Dishwasher-Low-Temperature-Under-Counter	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Dual-enthalpy-economizer-controls	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	ECM-Pump-1/2 to 3/8 HP	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	ECM-Pump-1/2 to 3/4 HR	5034	\$0-39	\$1,968	5.0	100.7	0.0	0.0	2.0	39.7
	Electric-HW-Spray-Valve	9962	\$0-23	\$2,220	7.5	72.9	0.7	0.7	1.4	44.6
	EMS	4815	\$0-10	\$463	3.6					28.7
	Food-Service									
	Freezer-Glass-Door-15 to 30 ft3	1548	\$0-90	\$1,388	1.2	11.7	0.2	0.2	0.5	4.6
	Freezer-Glass-Door-15 to 20.9 ft3									
	Freezer-Glass-Door-30 to 40.9 ft3	6265	\$0-36	\$2,288	4.8					28.0
	Freezer-Solid-Door-15 ft3									
	Freezer-Solid-Door-30 ft3									
	Freezer-Solid-Door-15 to 29.9 ft3	32596	\$0-29	\$9,555	24.7	246.8	4.6	4.6	9.7	97.3
	Freezer-Solid-Door-30 to 49.9 ft3									
	Freezer-Ultra-Low-Temperature									
	Hand-Wrapper	8180	\$0-01	\$105	6.2					48.8
	Heating-Hot-Water-Pump									
	High-Efficiency-Condensing-Units-Floating									
	Head-Pressure-Control	3049	\$0-15	\$455	2.3	23.1	0.4	0.4	0.9	9.1
	High-Efficiency-Condensing-Units-Scroll Compressor									
	High-Performance-Contact-Conveyor-Toaster	2722	\$0-09	\$250	2.1	20.6	0.8	0.0	0.8	8.1
	Hot-Food-Holding-Cabinet-1/2									
	Hot-Food-Holding-Cabinet-3/4	54729	\$0-30	\$16,539	54.7	1094.6	7.1	7.1	21.6	431.4
	Hot-Food-Holding-Cabinet-Full	18242	\$0-30	\$5,513	18.2	77.0	2.9	2.9	6.1	143.8
	HVAC-Fan-Return	20324	\$0-58	\$11,692	15.4					20.2
	HVAC-Fan-Supply									
	Ice-Machine-Cont-Remote	1727101	\$0-53	\$913,636	1087.8	16316.5	142.9	141.8	428.7	6430.8
	Ice-Machine-Ice-Making-Head	38552	\$0-39	\$15,074	24.3	267.1	0.0	0.0	0.6	305.3
	Ice-Machine-Ice-56ft-Contained	427	\$0-53	\$225	0.4	5.1	0.1	0.1	0.2	2.0
	Ice-Machine-Remote/Split	1486	\$0-20	\$300	1.5	17.8	0.3	0.3	0.6	7.0
	LEDs	681	\$0-48	\$325	0.7					3.2
	Lighting-Controls-Dimming									
	Lighting-Controls-Exterior	1062	\$0-19	\$200	1.1	12.7	0.2	0.2	0.4	5.0
	Lighting-Controls-Integrated									
	Lighting-Controls-Sensor	2120	\$1-06	\$2,250	2.1	7.1	0.1	0.1	0.2	10.0
	Lighting-Controls-Street-Light-Exterior	589	\$0-51	\$300	0.6	87.5	1.4	1.4	2.9	2.8
	Lighting-Controls-Custom	7290	\$0-67	\$4,875	7.3					34.5
	Lighting-Systems-Custom									
	LOADCOMP-25HP	17312	\$0-37	\$6,400	17.3					81.9
	LOADCOMP-75HP									
	Low-pressure-drop-filter	145433	\$0-40	\$58,183	110.1	1100.9	20.7	20.7	43.4	433.9
	Make-Up-Air-Fan									
	MFHR-Cooling	3120	\$0-07	\$220	2.4	168.3	0.9	0.9	4.4	9.3
	MFHR-DHW	15766	\$0-31	\$4,927	11.3	1361.0	15.4	13.7	41.3	66.3
	MFHR-Heating	104689	\$0-29	\$30,525	104.7					526.4
	MFHR-Lighting									
	Motor									
	ODP-1200F	104689	\$0-29	\$30,525	104.7					526.4
	ODP-1200N									
	ODP-1200S	1000	\$0-70	\$700	0.8					4.0
	ODP-1800F									
	ODP-1800N	19710	\$0-59	\$11,700	19.7	236.5	3.7	3.7	7.8	93.2
	ODP-1800S									
	ODP-2600F	4380	\$0-73	\$3,200	3.3	39.8	0.6	0.6	1.3	15.7
	ODP-2600N									
	ODP-2600S	4106	\$0-25	\$1,425	2.1	37.3	0.6	0.6	1.2	14.7
	Other									
	Packaged-Terminal-Air-Conditioner	15766	\$0-31	\$4,927	14.8	222.3	1.1	1.1	5.8	87.6
	PEH2O-PUMP-COMM-C	15766	\$0-31	\$4,927	14.8	41.6	1.0	1.0	2.1	87.6
	Performance-Lighting-Tier-1-Exterior	5202	\$0-09	\$450	5.2	375.3	8.8	8.8	18.5	16.4
	Performance-Lighting-Tier-1-Interior	46914	\$0-25	\$11,550	46.9					147.9
	Performance-Lighting-Tier-2-3-Exterior									

The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 2. Annual Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive / Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	Performance Lighting-Tier 2 & 3 Interior	3220	\$0-20	\$000	3.2	58.3	1.4	1.4	2.9	10.2
	Performance Lighting-Custom									
	Prescriptive Lighting-Compact	7282	\$0-06	\$450	7.2	1324.9	18.5	10.5	24.8	23.0
	Prescriptive Lighting-Custom	122305	\$0-35	\$42,195	88.3	1322.0	13.4	12.3	50.0	522.2
	Prescriptive Lighting-EXT-24/7	154947	\$0-22	\$34,088	146.9	998.2	10.1	9.3	37.7	449.9
	Prescriptive Lighting-EXT-DUSKDAWN	117000	\$0-22	\$25,740	110.9	1320.1	10.1	9.3	37.7	339.7
	Prescriptive Lighting-Fluorescent	117000	\$0-22	\$25,740	110.9					415.2
	Prescriptive Lighting-LED Case Ref					1158.7	11.8	10.8	43.8	
	Prescriptive Lighting-LED General	135886	\$0-22	\$29,877	128.7	998.2	10.1	9.3	37.7	394.3
	Prescriptive Lighting-LED Sign	117000	\$0-22	\$25,740	110.9					339.7
	Process Cooling	64350	\$0-35	\$22,201	46.5	1324.9	18.5	10.5	34.8	164.8
	Process Exhaust Fan	122305	\$0-35	\$42,195	88.3	2262.5	14.1	11.5	59.4	522.2
	Process Cool Pump	104746	\$0-28	\$29,329	150.8	2262.5	13.6	11.2	59.4	891.7
	Refrigerated Air Dryer-CAT-100	104746	\$0-28	\$29,329	150.8	40.9	0.7	0.6	2.3	891.7
	Refrigerated Air Dryer-CAT-400	7500	\$0-28	\$2,100	8.2	21.7	0.1	0.1	0.6	16.1
	Refrigerated Air Dryer-CAT-200	2033	\$0-31	\$635	1.4	157.0	0.0	0.0	2.5	8.6
	Refrigerated Air Dryer-CAT-300	6278	\$0-39	\$2,449	6.3	94.2	0.0	0.0	2.5	61.9
	Refrigerated Air Dryer-CAT-400	6278	\$0-39	\$2,449	6.3	157.0	0.0	0.0	2.5	37.1
	Refrigerated Chef Base-35"to 54"	6278	\$0-39	\$2,449	6.3	0.0	0.0	0.0	0.0	61.9
	Refrigerated Chef Base-71"to 89"	6278	\$0-39	\$2,449	6.3	722.4	7.2	6.9	14.4	0.0
	Refrigerator Glass Door-<15 ft3	58140	\$0-22	\$12,791	36.6	28.7	0.1	0.1	0.8	189.6
	Refrigerator Glass Door->50 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Glass Door-15 to 29.9 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Glass Door-30 to 49.9 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Solid Door-<15 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Solid Door->50 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Solid Door-15 to 29.9 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Refrigerator Solid Door-30 to 49.9 ft3	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Room Air Cleaner-K-12	2033	\$0-29	\$590	1.9	28.7	0.1	0.1	0.8	11.3
	Room Air Cleaner-Office	2033	\$0-29	\$590	1.9	348.8	3.5	4.7	13.7	11.3
	Room Air Cleaner-Retail	55384	\$0-39	\$21,655	34.9	396.7	2.9	0.0	10.4	197.5
	Sensors	48089	\$0-35	\$13,023	26.4					156.4
	Split-system AC to 5.4 tons					2726.1	25.5	2.1	71.9	
	TEFC-1200F	180600	\$0-12	\$21,672	182.4	1900.4	11.6	10.6	43.1	1078.4
	TEFC-1200N	132640	\$0-22	\$29,401	126.7					646.7
	TEFC-1200S					11189.8	68.2	62.4	253.9	
	TEFC-1800F	786903	\$0-22	\$173,119	746.0					2807.9
	TEFC-1800N					1407.8	8.6	7.9	31.9	
	TEFC-1800S	99000	\$0-22	\$21,780	93.9					479.1
	TEFC-3600F					1407.8	8.6	7.9	31.9	
	TEFC-3600N	99000	\$0-22	\$21,780	93.9					479.1
	TEFC-3600S					1324.9	18.5	10.5	34.8	
	Transformers	122305	\$0-35	\$42,195	88.3					522.2
	VARIABLE-75HP					782.1	4.8	4.4	17.7	
	Vending Miser-Glass Front Refrigerated Coolers	55000	\$0-22	\$12,100	52.1	782.1	4.8	4.4	17.7	266.2
	Vending Miser-Non Refrigerated Snack	55000	\$0-22	\$12,100	52.1	782.1	4.8	4.4	17.7	266.2
	Vending Machines-UPSTR					1588.4	9.7	8.9	26.0	
	Vending Miser-Refrigerated Beverage	111703	\$0-25	\$27,926	105.9					540.5
	Vending Machines-UPSTR					4051.2	24.7	22.6	91.9	
	VFD Secondary	284897	\$0-22	\$62,677	270.1					1378.7
	VRF HP-11.25T-20T					782.1	4.8	4.4	17.7	
	VRF HP-5.4T-11.25T	55000	\$0-22	\$12,100	52.1	782.1	4.8	4.4	17.7	266.2
	VRF HP-over 20T					782.1	4.8	4.4	17.7	
	VSD Compressor (15<HP<=75)	55000	\$0-22	\$12,100	52.1	15423.9	94.0	86.1	249.9	266.2
	VSD-HVAC									5248.8
	VSD-Non HVAC	1084661	\$0-22	\$238,625	1028.3					
	Water Source Heat Pump					1407.8	8.6	7.9	31.9	
	WCCHII-150-300T-IRLV	99000	\$0-22	\$21,780	93.9					479.1
	WCCHII-150-300T-IRLV_CEN					10667.3	105.4	121.5	280.3	
	WCCHII-150-300T-IRLV_SCR	1129128	\$0-34	\$383,904	711.2	2732.8	27.0	21.1	71.8	4204.3
	WCCHII-150-300T-PkW	289266	\$0-32	\$93,144	182.2	84.1	0.4	0.4	2.2	1077.1
	WCCHII-150-300T-PkW_CEN	7883	\$0-31	\$2,463	5.6	84.1	0.4	0.4	2.2	33.2
	WCCHII-150-300T-PkW_SCR	7883	\$0-31	\$2,463	5.6	289.0	2.8	2.3	11.8	33.2
	WCCHII-300-1000T-IRLV	20782	\$0-28	\$5,819	29.9					153.3
	WCCHII-300-1000T-PkW					289.0	2.8	2.3	11.8	
	WCCHII-30-30T	20782	\$0-28	\$5,819	29.9					153.3
	WCCHII-70-150T					389.0	2.8	2.3	11.8	
	WCCHII-over300T-IRLV_CEN	20782	\$0-28	\$5,819	29.9					153.3
	WCCHII-over300T-IRLV_SCR					289.0	2.8	2.3	11.8	
	WCCHII-over300T-PkW_CEN	20782	\$0-28	\$5,819	29.9					153.3
	WCCHII-over300T-PkW_SCR					289.0	2.8	2.3	11.8	
	WCCHII-10150T-IRLV_CEN	20782	\$0-28	\$5,819	29.9					153.3
	WCCHII-10150T-IRLV_SCR					13.6	0.2	0.2	0.4	
	WCCHII-10150T-PkW_CEN	1051	\$0-52	\$550	1.1					5.0

The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 2. Annual Measures for Electric Commercial and Industrial Programs

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		1680	\$0.30	\$504	1.8	41.7	0.5	0.1	0.7	16.4
		1680	\$0.30	\$504	1.8	286.2	2.3	1.9	10.1	16.4
		22620	\$0.38	\$6,613	25.7					152.2
Large C&I Retrofits	Boiler, Draft Fan	85307.40	\$0.42	\$35,829.11	68.56	1028.42	5.25	5.26	27.02	405.33
	Boiler, Feedwater Pump	85307.40	\$0.42	\$35,829.11	68.56	1028.42	5.25	5.26	27.02	405.33
	Building Exhaust Fan	85307.40	\$0.42	\$35,829.11	68.56	1028.42	5.25	5.26	27.02	405.33
	Building operator certification	109917.15	\$0.00	\$0.00	93.98	469.90	0.00	0.00	37.04	185.20
	Building Shell	255061.80	\$0.80	\$204,049.44	248.63	2675.31	0.00	0.00	58.58	1054.40
	Chiller, Water Pump	85307.40	\$0.42	\$35,829.11	68.56	1028.42	5.25	5.26	27.02	405.33
	Commercial Refrigeration	815739.12	\$0.44	\$358,925.21	475.34	6179.45	21.75	68.87	117.34	2435.48
	Cooling, Town Fan	79620.24	\$0.42	\$33,440.50	63.99	959.86	4.90	4.91	25.22	378.31
	Custom Compressed Air	2734188.66	\$0.09	\$246,076.98	1593.25	3186.50	194.10	290.38	627.94	1255.88
	Custom HVAC	1688051.10	\$0.60	\$1,012,830.66	983.65	9836.51	183.49	105.07	661.10	6611.04
	Custom Motor	47995.58	\$0.40	\$19,198.23	27.87	419.52	4.24	3.21	11.02	165.34
	Custom Other	1917608.45	\$0.19	\$364,345.61	1117.42	5587.09	96.57	107.70	440.40	2202.01
	Custom process	546696.38	\$0.22	\$120,273.20	318.57	4141.38	48.37	72.06	125.56	1632.22
	EHS 40k-80ksoft	435951.87	\$0.55	\$239,779.03	295.38	2953.83	20.59	21.39	175.85	1758.48
	EHS 5k-40ksoft	544952.34	\$0.60	\$326,971.40	369.23	3692.29	25.74	26.73	219.81	2198.09
	EHS 80k-200ksoft	653942.81	\$0.50	\$326,971.40	443.08	4430.75	30.89	32.08	263.77	2637.71
	Energy management system, custom	1557965.30	\$0.40	\$623,186.12	907.85	6354.94	169.35	96.97	357.81	2504.64
	Food Service	28232.16	\$0.35	\$9,881.26	16.45	180.96	0.00	0.00	6.48	71.32
	Heating, Hot Water Pump	106160.32	\$0.42	\$44,587.33	65.26	848.42	4.99	5.00	25.72	334.38
	HVAC Fan - Return	106160.32	\$0.42	\$44,587.33	65.32	1279.82	6.53	6.54	33.63	504.41
	HVAC Fan - Supply	106160.32	\$0.42	\$44,587.33	65.32	1279.82	6.53	6.54	33.63	504.41
	LEDs	2860150.24	\$0.34	\$972,451.08	1784.49	10706.96	314.58	212.35	703.31	4219.88
	Lighting Controls, Custom	1401646.26	\$0.57	\$798,938.37	874.51	7870.59	174.68	117.91	344.67	3101.99
	Lighting Systems, Custom	3010684.46	\$0.34	\$1,023,632.72	1878.41	11270.49	375.21	253.27	498.27	2989.63
	Make Up Air Fan	55199.20	\$0.42	\$23,183.66	44.36	665.45	3.40	3.40	17.48	262.27
	Motor VFD Secondary	32355.68	\$0.42	\$13,589.39	26.00	390.06	4.47	4.48	10.25	153.73
	MTVFD-BLDG EXHST FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-BOIL DRAFT FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-BOIL FWTR PUMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-CHILL WATER PMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-CT FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-HEAT HW PUMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-HVAC RET FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-HVAC SUP FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-MK UP AIR FAN	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-PROC COOL PUMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-WATER/WST PUMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	MTVFD-WSPH PUMP	43388.80	\$0.42	\$18,223.30	34.87	523.07	6.00	6.01	13.74	206.16
	Non-refrigerated snack vending machine	66879.00	\$0.50	\$33,439.50	59.24	296.20	4.13	4.29	35.27	176.33
	O & M	1375463.71	\$0.18	\$247,583.47	801.50	1603.00	0.00	0.00	315.89	631.78
	Prescriptive Lighting - LED - Downstream	4995424.70	\$0.34	\$1,698,437.60	3967.82	23806.95	928.28	847.78	1324.74	7949.43
	Prescriptive Lighting - LED Replacement	2417663.00	\$0.34	\$822,005.42	1920.34	11522.03	448.30	410.31	641.14	3846.86
	Prescriptive Lighting - Linear LED - Downstream	2725153.78	\$0.34	\$926,552.28	2164.58	12987.46	505.32	462.49	722.69	4336.12
	Process Cooling	131579.71	\$0.25	\$32,894.93	76.67	996.75	7.75	11.54	30.22	392.85
	Process, Cool Pump	79620.24	\$0.42	\$33,440.50	48.95	636.32	3.75	3.75	19.29	250.79
	Process, Exhaust Fan	79620.24	\$0.42	\$33,440.50	63.99	831.88	4.90	4.91	25.22	327.86
	Refrigerated beverage vending machine	76910.85	\$0.50	\$38,455.43	68.13	340.63	0.00	0.00	40.56	202.78
	Street Lighting - Lighting	3297864.00	\$0.24	\$791,487.36	2057.59	10287.95	0.00	0.00	810.95	4054.74
	Street lighting - Lighting w/ Controls	3093631.33	\$0.31	\$959,025.71	1930.17	11581.00	0.00	289.55	760.73	4564.36
	Transformers	177128.64	\$0.35	\$61,995.02	103.22	2786.81	0.00	0.00	40.68	1098.35
	UPSTR Lighting - High/Low Bay Controls	3688364.00	\$0.42	\$1,548,272.88	2087.23	16697.81	514.47	405.36	756.69	6053.54
	UPSTR Lighting - LED Controls	1638384.00	\$0.42	\$688,121.28	859.14	6013.97	211.77	166.85	299.41	2095.84
	UPSTR Lighting - LED Exterior	3481566.00	\$0.10	\$348,156.60	562.27	2811.36	193.76	110.42	221.61	1108.03
	UPSTR Lighting - LED High/Low Bay	1005582.00	\$0.15	\$1,508,337.30	5693.49	39854.43	1403.37	1105.73	2064.09	14448.63
	UPSTR Lighting - LED Outdoor Control	1126389.00	\$0.17	\$191,486.13	181.91	1091.47	62.69	35.73	71.70	430.18
	UPSTR Lighting - LED Stairwell	51200.00	\$0.33	\$16,896.00	31.61	189.69	2.75	2.52	12.42	74.54
	UPSTR Lighting - Linear LED	440316.00	\$0.08	\$35,225.28	172.46	1034.78	16.93	13.34	60.10	360.61
	VARICOMP - 25 HP	155322.27	\$0.08	\$12,425.78	187.25	2434.23	13.92	9.39	73.80	959.39
	VARICOMP - 75 HP	152419.05	\$0.08	\$12,193.52	183.75	2388.73	17.07	14.00	72.42	941.46
	VFD Secondary	32355.68	\$0.42	\$13,589.39	19.89	298.36	3.42	3.43	7.84	117.59
	VSD-HVAC	66696.00	\$0.35	\$23,343.60	0.00	0.00	5.90	4.47	0.00	0.00
	VSD-Non HVAC	83039.88	\$0.35	\$29,063.96	48.39	629.05	7.34	5.56	19.07	247.92
	Water Source Heat Pump	79620.24	\$0.42	\$33,440.50	48.95	734.21	3.75	3.75	19.29	280.37
	Water/Waste Pump/Boiler, Draft Fan	79620.24	\$0.42	\$33,440.50	48.95	63,996.8	959.86	11,025.2	25,222.7	378,314.05
	Boiler, Feedwater Pump	02	2	\$24	68.6	1028.4	5.2	5.2	27.0	2
	Building Exhaust Fan	85307	\$0.42	\$35,829	68.6	1028.4	5.2	5.2	27.0	405.3
	Building operator certification	85307	\$0.42	\$35,829	109.9	549.6	0.0	0.0	43.3	405.3
	Building Shell	109917	\$0.00	\$0	50					216.6
	Chiller, Water Pump				138.8	2498.2	0.0	0.0	54.7	
	Commercial Refrigeration	255062	\$0.80	\$204,049	68.6	1028.4	5.2	5.2	27.0	984.6

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The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 3: Annual Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive / Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	Cooling-Town-Fan	85307	\$0.42	\$35,829	678.7	8823.0	44.2	84.7	267.5	405.3
	Custom-Compressed-Air	815730	\$0.44	\$358,925	64.0	959.9	4.9	4.9	25.2	2472.4
	Custom-HVAC	79620	\$0.42	\$33,444	1487.7	2975.5	176.7	233.6	586.4	278.2
	Custom-Motor	2734189	\$0.09	\$246,072	918.5	9185.2	167.1	84.5	617.3	1172.7
	Custom-Other	1688051	\$0.60	\$1,012,831	26.1	291.7	3.9	2.6	10.2	6173.3
	Custom-process	47996	\$0.40	\$19,198	1042.4	5217.1	87.9	86.6	411.2	154.4
	EMS-40k-80kqft	1917608	\$0.19	\$364,346	297.5	2867.1	44.0	58.0	117.2	2056.2
	EMS-5k-40kqft	546696	\$0.22	\$120,273	451.7	4516.6	31.5	32.7	268.9	1524.1
	EMS-60k-200kqft	435562	\$0.55	\$239,779	564.6	5645.7	39.4	40.9	336.1	2688.9
	Energy-management-system, custom	544952	\$0.60	\$326,971	677.5	6774.8	47.2	49.1	403.2	2361.0
	Food-Service	653942	\$0.50	\$326,971	847.7	5934.1	154.2	78.0	334.1	4032.2
	Heating-Hot-Water-Pump	1557965	\$0.40	\$623,186	15.4	169.0	0.0	0.0	6.1	2338.8
	HVAC-Fan-Return				15.4	169.0	0.0	0.0	6.1	2338.8
	HVAC-Fan-Supply	28232	\$0.35	\$9,891	85.3	1109.2	6.5	6.5	33.6	66.6
	LEDs	106160	\$0.42	\$44,587	99.8	1496.9	7.6	7.7	39.3	437.2
	Lighting-Controls-Custom	106160	\$0.42	\$44,587	99.8	1496.9	7.6	7.7	39.3	590.0
	Lighting-Systems-Custom	106160	\$0.42	\$44,587	1784.5	10707.0	314.6	212.3	703.3	590.0
	Make-Up-Air-Fan	2860150	\$0.34	\$972,451	874.5	7870.6	174.7	117.9	244.7	4219.9
	Motor-VFD-Secondary	1401646	\$0.57	\$798,938	1878.4	11270.5	375.2	253.3	498.3	3102.0
	MTVFD-BLDG-EXHST-FAN	3010684	\$0.34	\$1,023,632	44.4	665.5	3.4	3.4	17.5	2999.6
	MTVFD-BOIL-DRAFT-FAN	55199	\$0.42	\$23,184	30.4	456.2	5.2	5.2	22.0	262.3
	MTVFD-BOIL-FWTR-PUMP	32356	\$0.42	\$13,589	40.8	611.8	7.0	7.0	16.1	179.9
	MTVFD-CHIL-WATER-PUMP	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-CT-FAN	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-HEAT-HW-PUMP	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-HVAC-RET-FAN	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-HVAC-SUP-FAN	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-MK-UP-AIR-FAN	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-PROC-COOL-PUMP	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-WATER/AVST-PUMP	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	MTVFD-WSHR-PUMP	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	Non-refrigerated-snack-vending-machine	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	O-S-M	43289	\$0.42	\$18,223	40.8	611.8	7.0	7.0	16.1	241.1
	Prescriptive-Lighting-LED-Downstream	43289	\$0.42	\$18,223	59.2	296.2	4.1	4.3	35.3	241.1
	Prescriptive-Lighting-LED-Replacement	66879	\$0.50	\$33,440						176.3
	Prescriptive-Lighting-Linear-LED-Downstream	1375464	\$0.18	\$247,583	4640.7	27844.4	1082.4	991.6	1549.4	589.9
	Process-Cooling	4995405	\$0.34	\$1,698,438						9296.4
	Process-Cool-Pump				2246.0	12476.1	524.2	479.9	749.9	
	Process-Exhaust-Fan	2417663	\$0.34	\$822,005						4499.3
	Refrigerated-beverage-vending-machine				2521.7	15190.0	591.0	540.9	845.2	
	Street-Lighting-Lighting	2725154	\$0.34	\$926,552						5071.5
	Street-Lighting-Lighting-w/Controls				71.6	930.8	7.1	9.3	28.2	
	Transformers	131580	\$0.25	\$32,895	64.0	821.9	4.9	4.9	25.2	266.9
	UPSTR-Lighting-High/Low-Bay-Controls	79620	\$0.42	\$33,444	64.0	821.9	4.9	4.9	25.2	227.9
	UPSTR-Lighting-LED-Controls	79620	\$0.42	\$33,444	68.1	340.6	0.0	0.0	40.6	227.9
	UPSTR-Lighting-LED-Exterior	76911	\$0.50	\$38,455						202.8
	UPSTR-Lighting-LED-High/Low-Bay				3146.2	15730.8	0.0	472.0	1240.0	
	UPSTR-Lighting-LED-Outdoor-Control	3292864	\$0.24	\$791,487	2951.3	17207.9	0.0	442.7	1169.2	6199.9
	UPSTR-Lighting-LED-Stairwell	3093631	\$0.21	\$659,026						6979.1
	UPSTR-Lighting-Linear-LED				115.0	3127.7	0.0	0.0	45.7	
	VARIOMP-25-HP	177129	\$0.35	\$61,995	2087.2	16697.8	514.5	405.4	756.7	1232.7
	VARIOMP-75-HP	3686364	\$0.42	\$1,548,273						6053.5
	VFD-Secondary	1638384	\$0.42	\$688,121						2095.8
	VSD-Non-HVAC				562.3	2811.4	193.8	110.4	221.6	
	Water-Source-Heat-Pump	3481566	\$0.10	\$348,157						1108.0
	Water/Waste-Pump	10055582	\$0.15	\$1,508,337						14448.6
		1126289	\$0.17	\$191,486	181.9	1091.5	62.7	35.7	71.7	430.2
		51200	\$0.33	\$16,896						74.5
		440316	\$0.08	\$35,225	172.5	1034.8	16.9	13.2	60.1	360.6
		155422	\$0.08	\$12,426	219.0	2847.1	16.3	11.0	86.3	1122.1
		152419	\$0.08	\$12,194	214.9	2793.8	20.0	16.4	84.7	1101.1
		32356	\$0.42	\$13,589	30.4	456.2	5.2	5.2	22.0	1401.1
		66606	\$0.25	\$16,651	0.0	0.0	8.2	5.5	0.0	179.8
		82040	\$0.25	\$20,510	69.1	898.2	10.2	6.8	27.2	0.0
		79620	\$0.42	\$33,444	64.0	850.0	4.9	4.9	25.2	254.0
		79620	\$0.42	\$33,444	64.0	959.9	11.0	11.0	25.2	278.2
		79620	\$0.42	\$33,444						278.2
Small Business	CUSTOM LIGHTING	1028093.60	\$0.68	\$699,103.65	938.52	5631.09	73.99	67.72	369.89	2219.36
Direct Install	Custom Motors/Drives, HVAC	900000.00	\$0.75	\$675,000.00	520.97	6772.62	56.21	46.33	205.33	2669.26
	Custom Motors/Drives, Non-HVAC	200000.00	\$0.75	\$150,000.00	115.77	1505.03	12.49	10.30	45.63	593.17
	Freezer Recycling	57214.00	\$0.33	\$18,880.62	40.74	325.89	3.57	2.95	16.06	128.44

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Table 5. Planned Measures for Electric Commercial and Industrial Programs

Program	Measure	Quantity (kWh)	Incentive / Quantity	Total Incentives	Net Annual Energy Savings (MWh)	Net Lifetime Energy Savings (MWh)	Net Annual Summer Capacity Savings (kW)	Net Annual Winter Capacity Savings (kW)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	Hot Water, Custom	240000.00	\$0.75	\$180,000.00	138.93	1806.03	14.99	12.35	54.75	711.80
	HVAC, Custom	900000.00	\$0.75	\$675,000.00	520.97	6772.62	56.21	46.33	205.33	2669.26
	LED - Exterior HW	518050.40	\$0.70	\$362,635.28	456.92	2741.52	37.28	34.12	180.08	1080.50
	LED - Interior HW	2473465.60	\$0.70	\$1,731,425.92	2251.41	13508.45	171.07	156.57	737.67	4426.01
	LED - Interior SI	3616953.60	\$0.66	\$2,387,189.38	3292.24	16461.19	250.16	228.96	1078.69	5393.47
	OCCUPANCY SENSORS	228933.00	\$0.66	\$151,095.78	201.92	1817.27	15.42	14.11	67.34	606.04
	PROGRAMMABLE THERMOSTATS	53549.00	\$0.60	\$32,129.40	38.13	571.90	3.34	2.76	15.03	225.40
	Refrigerated case LED	6352.00	\$0.50	\$3,176.00	5.27	31.60	0.46	0.42	2.08	12.45
	TIMELOCKS	157.95	\$0.52	\$82.13	0.14	1.25	0.01	0.01	0.05	0.42
	VENDING MACHINES	6608.00	\$0.29	\$1,916.32	4.70	23.52	0.41	0.34	1.85	9.27
	Water Heating/CUSTOM LIGHTING	7602.001028	\$0.4050.6	\$3,040.805699,	5.41938.5	37,895631.1	0.4774.0	0.3967.7	2,13369.9	14,932219.
	Custom Motors/Drives, HVAC	894	8	404	521.8	6772.6	56.2	46.3	205.3	4
	Custom Motors/Drives, Non-HVAC	900000	\$0.75	\$675,000	115.8	1505.0	12.5	10.3	45.6	2669.3
	Freezer/Recycling									
	Hot Water, Custom	300000	\$0.75	\$150,000						593.2
	HVAC, Custom				40.7	325.9	2.6	2.9	16.1	
	LED - Exterior HW	57234	\$0.33	\$18,881	138.9	1806.0	15.0	12.4	54.8	328.4
	LED - Interior HW	240000	\$0.75	\$180,000	521.0	6772.6	56.2	46.3	205.3	711.8
	LED - Interior SI	900000	\$0.75	\$675,000	518.1	3108.3	42.3	38.7	204.2	2669.3
	OCCUPANCY SENSORS	518050	\$0.70	\$362,635	2552.6	15315.7	194.0	177.5	836.4	3295.1
	PROGRAMMABLE THERMOSTATS	2473466	\$0.70	\$1,731,426	372.7	18669.5	283.6	259.6	1223.0	5918.2
	Refrigerated case LED	3616954	\$0.66	\$2,387,189	201.9	1817.3	15.4	14.1	67.3	615.0
	TIMELOCKS	228933	\$0.66	\$151,096	28.1	571.9	2.3	2.8	15.0	606.0
	VENDING MACHINES	53549	\$0.60	\$32,129						225.4
	Water Heating				5.3	21.6	0.5	0.4	2.1	
		6352	\$0.50	\$3,176	0.1	1.2	0.0	0.0	0.0	12.5
		158	\$0.52	\$82	4.7	23.5	0.4	0.3	1.9	0.4
		6608	\$0.29	\$1,916	5.4	27.9	0.5	0.4	2.1	9.3
		7602	\$0.40	\$3,041						14.9

Table 6. Shared and Other Costs for Electric Commercial and Industrial Programs

Program	Program Planning & Administration	Marketing	Sales, Tech Assist & Training	Evaluation & Market Research
Large C&I New Construction	\$247,012\$237,892	\$216,903\$214,131	\$1,637,584\$1,720,557	\$598,276\$636,537
Large C&I Retrofit	\$751,604\$723,975	\$160,976\$158,920	\$4,241,975\$4,316,097	\$665,142\$665,142
Small Business Direct Install	\$281,737\$269,190	\$181,590\$164,680	\$265,260\$265,259	\$394,526\$394,526

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Table 7. Planned Measures for Gas Commercial and Industrial Programs

Program	Measure	Quantity (MMBtu)	Incentive / Quantity	Total Incentives	Total Annual Gas Savings (MWh)	Total Lifetime Gas Savings (MWh)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
C&I	Air Sealing	235.00	\$245.00	\$57,575.00	239.70	4794.00	14.02	280.45
Multifamily	Demand Circulator	2.00	\$2,100.00	\$4,200.00	233.00	3495.00	13.63	204.46
	Faucet aerator	177.00	\$5.00	\$885.00	29.63	88.89	1.73	5.20
	Heating, Custom	11.00	\$48,000.00	\$528,000.00	3290.54	49358.10	192.50	2857.45
	Low Flow Showerhead w/ Thermostatic Valve	9.00	\$40.00	\$360.00	10.62	159.32	0.62	9.32
	MF Shell Insulation	5880.00	\$2.25	\$13,230.00	58.08	1452.07	2.40	84.95
	Participant	1470.00	\$504.00	\$740,880.00	0.00	0.00	0.00	0.00
	Pipe Wrap (Water Heating)	294.00	\$3.00	\$882.00	36.91	479.85	2.16	28.07
	Programmable thermostat	392.00	\$125.00	\$49,000.00	296.06	5625.10	19.58	371.93
	Wi-Fi programmable thermostat (controls gas heat only)	9.00295	\$300.00524	\$2,700.00575	10.42299.7	156.344794.0	0.6734.0	9.98280.4
	Air Sealing	2	5.00	75	233.0	3495.0	13.6	204.5
	Demand Circulator	177	\$2,100.00	\$4,200	29.6	88.9	1.7	5.2
	Faucet aerator	11	\$5.00	\$55	3290.5	49358.1	192.5	2857.4
	Heating, Custom	9	\$48,000.00	\$528,000	10.6	159.3	0.6	9.3
	Low Flow Showerhead w/ Thermostatic Valve		\$40.00	\$360				
	MF Shell Insulation	5880	\$2.25	\$13,230	58.1	1452.1	2.4	84.9
	Participant	1470	\$504.00	\$740,880	0.0	0.0	0.0	0.0
	Pipe Wrap (Water Heating)	294	\$3.00	\$882	36.9	479.9	2.2	28.1
	Programmable thermostat	392	\$125.00	\$49,000	296.1	3648.8	19.6	254.5
		9			10.4	156.3	0.7	10.0

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The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 3. Proposed Measures for Gas, Commercial and Industrial Programs								
Program	Measure	Quantity (MMBtu)	Incentive / Quantity	Total Incentives	Total Annual Gas Savings (MMWh)	Total Lifetime Gas Savings (MMWh)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	WI-Fi programmable thermostat (controls gas heat only)		\$300.00	\$2,700				
Large C&I New Construction	Boiler - 95% AFUE < 300 MBU	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Boiler - 96% AFUE	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	BOILER RESET 1 STAGE	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	CODES AND STANDARDS	429.60	\$0.00	\$0.00	429.60	8592.00	25.13	502.63
	Combo Condensing Boiler/ Water Heater - 95% AFUE	591.00	\$20.00	\$11,820.00	171.39	3427.80	10.03	200.53
	Comprehensive Design	1250.00	\$40.00	\$50,000.00	698.40	11174.40	40.86	653.70
	Condensing Boiler - <= 300 mbh	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Condensing Boiler - 1000-1700 mbh	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Condensing Boiler - 1701+ mbh	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Condensing Boiler - 300-499 mbh	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Condensing Boiler - 500-999 mbh	591.00	\$30.00	\$17,730.00	340.42	6808.32	19.91	398.29
	Condensing Water Heater, 90%MIN 75-800	1661.00	\$29.01	\$48,185.61	481.69	7225.35	28.18	427.68
	ERV - Fixed Plate UPSTR	1400.00	\$19.31	\$27,031.20	1120.00	16800.00	65.52	982.80
	ERV - Rotary Wheel UPSTR	2000.00	\$16.55	\$33,096.00	1600.00	24000.00	93.60	1404.00
	Fryer, Upstream	4698.00	\$16.60	\$77,986.80	2706.05	32472.58	158.30	1899.65
	Gas driven cooling	6229.32	\$0.00	\$0.00	3028.35	45425.20	177.16	2657.37
	Gas Oven Upstream - Convection Oven	1622.50	\$30.81	\$49,989.23	934.56	11214.72	54.67	656.06
	Gas Oven Upstream - Conveyor Oven	265.00	\$12.44	\$3,296.60	152.64	1831.68	8.93	107.15
	Gas Oven Upstream - Rack Oven	151.11	\$4.97	\$751.02	87.04	1044.47	5.09	61.10
	Gas Oven Upstream- Combination Oven	2768.90	\$11.79	\$32,645.33	1594.89	19138.64	93.30	1119.61
	Griddle, Upstream	76.00	\$14.51	\$1,102.76	43.78	525.31	2.56	30.73
	Heat Recovery - All	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	Heat Recovery - Seasonal	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	Heat Recovery - Year Round	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	INFRARED HEATER - LOW INT	6382.50	\$19.20	\$122,544.00	3676.32	62497.44	215.06	3656.10
	Low Flow Cooking Spray Nozzle, Upstream	627.00	\$6.58	\$4,125.66	361.15	2889.22	21.13	169.02
	Other Gas - All	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	Other Gas - Seasonal	6229.32	\$16.00	\$99,669.12	3028.35	36340.16	177.16	2125.90
	Other Gas - Year Round	6229.32	\$16.00	\$99,669.12	3028.35	39368.51	177.16	2303.06
	Pasta Cooker, Upstream	981.00	\$16.05	\$15,745.05	565.06	6780.67	33.06	396.67
	Steam boiler	721.02	\$25.00	\$18,025.50	350.52	7010.39	20.51	410.11
	Steamer, Upstream	378.39	\$4.86	\$1,838.98	217.95	2615.43	12.75	155.00
	WATER HEATER - INDIRECT	291.00	\$21.03	\$6,119.73	104.76	1571.40	6.13	91.93
	Water Heater - On-Demand 90	1478.00	\$7.79	\$11,513.62	522.08	9045.36	31.13	529.15
	Water Heating Boiler - 94% TEBoiler-95% AFUE < 300MBU	10667.0073	\$10.81646	\$115,310,275.2	4693,48738.8	70402,2014775.	274,5742.2	4118,53864.3
	Boiler - 96% AFUE	739	\$30.00	\$22,163	425.5	14775.0	24.9	492.9
	BOILER RESET 1 STAGE	739	\$30.00	\$22,163	425.5	14775.0	24.9	492.9
	CODES AND STANDARDS	430	\$0.00	\$0	738.0	8592.0	43.2	864.3
	Combo Condensing Boiler/ Water Heater - 95% AFUE	739	\$24.00	\$17,730	698.4	14775.0	40.9	864.3
	Comprehensive Design	3250	\$40.00	\$50,000	738.0	11174.4	43.2	864.3
	Condensing Boiler - <= 300 mbh	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Condensing Boiler - 1000-1700 mbh	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Condensing Boiler - 1701+ mbh	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Condensing Boiler - 300-499 mbh	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Condensing Boiler - 500-999 mbh	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Condensing Water Heater, 90%MIN 75-800	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	ERV - Fixed Plate UPSTR	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	ERV - Rotary Wheel UPSTR	739	\$30.00	\$22,163	425.5	14775.0	43.2	864.3
	Fryer, Upstream	1661	\$29.01	\$48,186	481.69	7225.4	28.18	427.7
	Gas driven cooling	6229.32	\$0.00	\$0.00	3028.35	45425.20	177.16	2657.37
	Gas Oven Upstream - Convection Oven	1400	\$19.31	\$27,031.20	1120.00	16800.00	65.52	982.80
	Gas Oven Upstream - Conveyor Oven	2000	\$16.55	\$33,096.00	1600.00	24000.00	93.60	1404.00
	Gas Oven Upstream - Rack Oven	4698	\$16.60	\$77,986.80	2706.05	32472.58	158.30	1899.65
	Gas Oven Upstream - Combination Oven	6229	\$0.00	\$0	3028.35	45425.20	177.16	2657.37
	Griddle, Upstream	1607	\$30.81	\$49,506	934.56	11214.72	54.67	656.06
	Heat Recovery - All	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	Heat Recovery - Seasonal	265	\$12.44	\$3,297	152.64	1831.68	8.93	107.15
	Heat Recovery - Year Round	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	INFRARED HEATER - LOW INT	1407	\$4.97	\$7,032.69	287.04	3588.00	13.59	169.02
	Low Flow Cooking Spray Nozzle, Upstream	772	\$11.79	\$9,078.84	437.88	5491.00	20.51	410.11
	Other Gas - All	6229.32	\$16.00	\$99,669.12	3028.35	45425.20	177.16	2657.37
	Other Gas - Seasonal	76	\$14.51	\$1,102.76	43.78	525.31	2.56	30.73
	Other Gas - Year Round	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	Pasta Cooker, Upstream	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	Steam boiler	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	Steamer, Upstream	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	WATER HEATER - INDIRECT	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	Water Heater - On-Demand 90	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
	Water Heating Boiler - 94% TE	6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
		6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
		6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
		6229	\$16.00	\$99,669	3028.35	45425.20	177.16	2657.37
		981	\$16.05	\$15,745	565.06	6780.7	33.06	396.67
		721	\$25.00	\$18,026	350.52	7010.4	20.51	410.11

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The Narragansett Electric Company
d/b/a/ Rhode Island Energy
Docket No. 23-XX-XX
2024 Annual Plan Attachment 2

Table 1. Proposed Measures for Gas, Commercial and Industrial Programs									
Program	Measure	Quantity (MMBtu)	Incentive / Quantity	Total Incentives	Total Annual Gas Savings (MMWh)	Total Lifetime Gas Savings (MMWh)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)	
		297	\$4.86	\$1,441	194.8	3959.1	6.3	91.9	
		294	\$21.03	\$6,120	1478.0	1571.4	86.5	1469.8	
		1478	\$7.79	\$11,514	18667.0	25136.0	624.0	9360.3	
		10662	\$10.81	\$115,310		160005.0			
Large C&I Retrofits	Building operator certification	3060.00	\$0.00	\$0.00	3329.28	16646.40	194.76	973.81	
	Custom Other	6241.00	\$25.00	\$156,025.00	5730.94	85964.03	335.26	5028.90	
	Heat Recovery - All	4362.00	\$30.00	\$130,860.00	4005.50	60082.54	234.32	3514.83	
	Heat Recovery - Seasonal	4362.00	\$30.00	\$130,860.00	4005.50	60082.54	234.32	3514.83	
	Heat Recovery - Year Round	4362.00	\$30.00	\$130,860.00	4005.50	60082.54	234.32	3514.83	
	HVAC - Controls and EMS	4550.00	\$30.00	\$136,500.00	4178.14	41781.38	244.42	2444.21	
	HVAC - Equipment	9882.00	\$30.00	\$296,460.00	9074.36	136115.46	530.85	7962.75	
	Operation & Maintenance	30000.00	\$12.50	\$375,000.00	27548.16	137740.80	1611.57	8057.84	
	Other Gas - All	5363.00	\$34.00	\$182,342.00	4924.69	73870.39	288.09	4321.42	
	Programmable thermostat	2968.90	\$22.00	\$65,315.80	2320.16	35531.80	188.96	2078.61	
	Steam Trap HVAC - High Pressure	1320.00	\$22.00	\$29,040.00	1436.16	8616.96	84.02	504.09	
	Steam Trap HVAC - Low Pressure	1320.00	\$22.00	\$29,040.00	1436.16	8616.96	84.02	504.09	
	Steam Trap, Custom - Low Pressure	5405.00	\$12.50	\$67,562.50	5880.64	35283.84	344.02	2064.10	
	Ventilation Reduction	3240.00	\$22.00	\$71,280.00	2975.20	35702.42	174.05	2088.59	
	Verified savings	3660.00	\$22.00	\$80,520.00	3360.88	43691.38	196.61	2555.95	
	VSDs - Non-HVAC	6534.00	\$30.00	\$196,020.00	5999.99	89999.84	351.00	5264.99	
	WiFi Thermostat - Heat Only, Custom	2968.90	\$25.00	\$74,222.50	3230.16	48452.45	188.96	2834.47	
	WiFi Thermostat Gas - Cooling and Heating	2968.90	\$25.00	\$74,222.50	3230.16	48452.45	188.96	2834.47	
	WiFi Thermostat Gas - Heating/Building operator certification	2968.90306	\$25.0050.0	\$150,990	5454.0	48452.4516646.6	319.1	2834.47973.8	
	Custom-Other	6040	\$25.00	\$150,860	2620.5	81810.0	211.8	3172.0	
	Heat Recovery-All	4362	\$30.00	\$130,860	2620.5	54206.8	211.8	3172.0	
	Heat Recovery-Seasonal	4362	\$30.00	\$130,860	2620.5	54206.8	211.8	3172.0	
	Heat Recovery-Year-Round	4362	\$30.00	\$130,860	2620.5	54206.8	211.8	3172.0	
	HVAC-Controls and EMS	4550	\$30.00	\$136,500	2726.5	54206.8	220.9	2209.3	
	HVAC-Equipment	9882	\$30.00	\$296,460	8202.1	37765.0	479.9	7497.3	
	Operation & Maintenance	30000	\$12.50	\$375,000	27091.2	123030.9	1584.8	7924.2	
	Other Gas - All	5232	\$34.00	\$177,888	4342.6	135456.0	254.0	3810.6	
	Programmable thermostat	2969	\$22.00	\$65,316	2320.2	65138.4	189.0	2078.6	
	Steam-Trap HVAC - High Pressure	1320	\$22.00	\$29,040	1320.0	35531.8	77.2	463.3	
	Steam-Trap HVAC - Low Pressure	1320	\$22.00	\$29,040	1320.0	7920.0	77.2	463.3	
	Steam-Trap, Custom - Low Pressure	5405	\$12.50	\$67,562.50	5316.0	31896.0	311.0	1865.9	
	Ventilation-Reduction	3240	\$22.00	\$71,280	2925.8	35110.2	149.3	2512.5	
	Verified-savings	3660	\$22.00	\$80,520	2305.1	42966.6	0.0	0.0	
	VSDs - HVAC	2240	\$22.00	\$49,280	1445.764	0.0	317.3	4758.9	
	VSDs - Non-HVAC	2240	\$22.00	\$49,280	1445.764	0.0	317.3	4758.9	
	WiFi Thermostat - Heat Only, Custom	2969	\$25.00	\$74,222.50	2968.9	44533.5	173.7	2605.2	
	WiFi Thermostat Gas - Cooling and Heating	2969	\$25.00	\$74,222.50	2968.9	44533.5	173.7	2605.2	
	WiFi Thermostat Gas - Heating	2969	\$25.00	\$74,222.50	2968.9	44533.5	173.7	2605.2	
	Small Business Direct Install	Building Shell	1200.00	\$80.00	\$96,000.00	914.56	16462.05	52.50	963.02
	DHW	400.00	\$30.00	\$12,000.00	304.85	3658.23	17.83	214.01	
Duct Insulation	1000.00	\$90.00	\$90,000.00	903.00	18060.00	52.83	1056.51		
Faucet aerator	1000.00	\$30.00	\$30,000.00	903.00	2709.00	52.83	158.48		
HVAC - Controls and EMS	25.00	\$25.00	\$625.00	19.05	190.53	1.11	11.15		
HVAC - Equipment	964.00	\$25.00	\$24,100.00	734.70	11020.43	42.98	644.70		
Insulation Pipe H2O - Diameter 1.5in	200.00	\$30.00	\$6,000.00	180.60	2709.00	10.57	158.48		
Insulation Pipe H2O - Diameter 2in	200.00	\$30.00	\$6,000.00	180.60	2709.00	10.57	158.48		
Insulation Pipe Steam - Diameter 1.5in	100.00	\$30.00	\$3,000.00	90.30	1354.50	5.28	79.24		
Insulation Pipe Steam - Diameter 2in	100.00	\$30.00	\$3,000.00	90.30	1354.50	5.28	79.24		
Low-flow showerhead	788.00	\$25.00	\$19,700.00	711.56	7115.64	41.63	416.26		
Other, Custom	3000.00	\$80.00	\$240,000.00	2286.40	34295.94	133.73	2006.31		
Pipe/Tank/Duct/HVAC Insulation	100.00	\$30.00	\$3,000.00	76.21	1143.20	4.46	66.88		
Pre-rinse spray valve	788.00	\$25.00	\$19,700.00	711.56	2134.69	41.63	124.88		
Programmable thermostat	1100.00	\$40.00	\$44,000.00	993.30	10926.30	58.11	639.19		
Salon Nozzle	788.00	\$20.00	\$15,760.00	711.56	2134.69	41.63	124.88		
WiFi Thermostat - cooling and htg	25.00	\$28.00	\$700.00	22.58	338.63	1.32	19.81		
WiFi Tstat-heat only/Building Shell	25.001200	\$28.00580.0	\$700.00596.00	22.58899.4	338.636189.0	1.3252.6	19.81947.1		
DHW	400	\$0.00	\$0.00	332.0	3984.0	19.4	232.1		
Duct-Insulation	1000	\$30.00	\$12,000	903.0	18060.0	52.8	1056.5		
Faucet-aerator	1000	\$30.00	\$30,000	903.0	2709.0	52.8	158.5		
HVAC-Equipment	25	\$25.00	\$625	20.8	207.5	1.2	12.1		
Insulation Pipe H2O - Diameter 1.5in	964	\$25.00	\$24,100	800.1	12001.8	46.8	703.1		
Insulation Pipe H2O - Diameter 2in	200	\$25.00	\$5,000	200.0	3000.0	11.7	175.5		
Insulation Pipe Steam - Diameter 1.5in	200	\$30.00	\$6,000	200.0	3000.0	11.7	175.5		
Insulation Pipe Steam - Diameter 2in	200	\$30.00	\$6,000	200.0	3000.0	11.7	175.5		
Low-flow showerhead	100	\$30.00	\$3,000	100.0	1500.0	5.9	87.8		
Other, Custom	100	\$30.00	\$3,000	100.0	1500.0	5.9	87.8		
Pipe/Tank/Duct/HVAC Insulation	100	\$30.00	\$3,000	100.0	1500.0	5.9	87.8		

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Table 7. Shared Measures for Gas Commercial and Industrial Programs								
Program	Measure	Quantity (MMBtu)	Incentive / Quantity	Total Incentives	Total Annual Gas Savings (MWh)	Total Lifetime Gas Savings (MWh)	Annual Carbon Reductions (Short Tons)	Lifetime Carbon Reductions (Short Tons)
	Pre-rinse spray-valve	788	\$30.00	\$23,640	711.6	7115.6	41.6	416.3
	Programmable thermostat	3000	\$25.00	\$75,000	2348.5	23485.5	131.5	1315.0
	Selen-Nezele	100	\$80.00	\$8,000	74.9	749.0	4.4	44.0
	WiFi-Thermostat-cooling-and-htg		\$30.00	\$3,000				
	WiFi-Tstat-heat-only	788			711.6	7115.6	41.6	416.3
		1100	\$25.00	\$27,500	993.3	9933.0	58.1	581.0
		788	\$40.00	\$31,520	711.6	7116.0	41.6	416.3
		25	\$20.00	\$500	25.0	250.0	1.5	15.0
		25	\$28.00	\$700	25.0	250.0	1.5	15.0

Table 8. Shared and Other Costs for Gas Commercial and Industrial Programs

Table 8. Shared and Other Costs for Gas Commercial and Industrial Programs				
Program	Program Planning & Administration	Marketing	Sales, Tech Assist & Training	Evaluation & Market Research
Large C&I New Construction	\$97,541	\$105,933	\$402,545	\$136,143
Large C&I Retrofit	\$205,195	\$174,268	\$1,665,458	\$130,041
Small Business Direct Install	\$17,435	\$20,345	\$55,842	\$23,519
C&I Multifamily	\$44,926	\$23,856	\$156,550	\$4,382

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Does scale back mean customers are completely stopping investment in EE or they are just spending less, or a combination of both?

Assuming at least some percent of those active customers who are scaling back but still participating just with fewer projects, what is the Company doing to ensure that those now limited resources are used more strategically? It would be good for the Plan to speak to this.

We are going to add something similar to the EVT model (link below), but we will be adding more guardrails to prevent vendor "gaming". We will make this vendor incentive available to either small biz customers or small C&I customers 200-400kW facilities to help promote ECM for those underserved or overlooked customers.

[Text to be added to Small Biz or Retrofit section]

<https://www.encyvermont.com/Media/Default/docs/rebates/forms/efficiency-vermont-vfd-contractor-incentive.pdf>

The EnergySmart Grocer Program has a history of baseline audits from grocery stores in Rhode Island and there are still some verified opportunities. CLEAResult holds regular monthly meetings with national and regional customers who are still engaged with the program and looking to tighten up their facilities.

The EnergySmart Grocer program deals primarily with national or regional grocers. However we have encountered a language barrier with a new customer who recently purchased the SuperFresh in Providence, which hampered initial conversations, but we were able to find someone on his staff to help with communications and we are currently working on EE improvements with this customer (Lighting and refrigeration) to be realized in 2023.

▲

Page 19: [5] Commented [AC49]

Adrian Caesar

8/9/2023 7:50:00 PM

Please explain how - describing challenges will enable the Company to better engage with others so we can try to determine solutions. Are these small businesses/renters with other barriers like language or split incentives due to renter status?

▲

Page 19: [6] Commented [RIE50R2]

Rhode Island Energy

8/28/2023 12:36:00 PM

It is well established that grocery stores have some level of refrigerant leaks occurring within their refrigeration systems nearly all the time. The EPA has established regulations stating that a grocery store cannot have a leak rate higher than 20%. . There was a refrigerant leak study done in a single national chain store in Rhode Island in 2022, and based on the amount of refrigerant that was added back into the system after the survey, the system was leaking at an estimated rate of 14%. Additional study would be needed to determine an average leak rate in Rhode Island, but it's assumed that most stores are leaking at a higher rate than 10% unless they are members of the EPA GreenChill program.

▲

Page 19: [7] Commented [AC50]

Adrian Caesar

8/9/2023 7:54:00 PM

Is there a sense of the baseline level of refrigerant leak at Grocery stores in RI? There is significant global warming potential from existing refrigerants, and while energy savings may not be a significant outcome in leak repairs, the GHG impacts are substantial

▲

Page 40: [8] Commented [AC91]

Adrian Caesar

8/10/2023 3:45:00 PM

Is it appropriate to label them as hard-to-reach? I would imagine that most of them would participate if they had decision-making power and were aware of program benefits

▲

Page 40: [9] Commented [RIE93]

Rhode Island Energy

8/28/2023 3:05:00 PM

Steven Chybowski: Below it references 5 communities. Are you planning for 3 or 5 Main Street events in 2024? It's a bit unclear

▲

Page 40: [10] Commented [RIE94R2]

Rhode Island Energy

8/28/2023 12:39:00 PM

Yes, East Providence, Central Falls and Woonsocket have had or will have a Main Street event in 2023. Additional Main Street events in these communities are not planned in 2024. There will be continued outreach and marketing

as part of the small business program. The SBS team also follows up with customers that received a proposal and did not respond. Enhanced incentives can be offered on a case-by-case basis depending on specific project cost and savings.

Page 40: [11] Commented [AC94]

Adrian Caesar

8/10/2023 3:47:00 PM

Are East Providence, Central Falls, and Woonsocket the other communities that have been targeted previously? If so, then will there be plans to reengage them/reengage customers that could not participate in 2023?
