

2021 Commercial and Industrial Energy Efficiency Solutions and Programs

Table of Contents

Overview	1
1. Large Commercial and Industrial New Construction Program.....	8
2. Initiatives Specific to Large Commercial and Industrial New Construction Program	16
2.1. Performance Lighting Plus	16
3. Large Commercial Retrofit Program.....	20
4. Initiatives Specific to Large Commercial Retrofit Program	24
4.1. Grocery Initiative	24
4.2. Industrial Initiative	25
4.3. National and Regional Restaurant Initiative.....	28
4.4. Lodging Initiative (including On Premise Laundry) Research	29
4.5. Strategic Energy Management Planning (SEMP).....	30
4.6. Municipal and State Buildings SEMP	32
4.7. Equipment & System Performance Optimization	34
4.8. Lighting Designer Incentives (LDI)	37
4.9. Customer Owned Streetlight Equipment	38
4.10. Company Owned Street Light Equipment	39
4.11. Commercial Real Estate and Offices.....	41
4.12. Extended Care Facilities (Nursing Homes/Assisted Living).....	42
4.13. Farm/Agriculture	43
4.14. Combined Heat and Power Initiative.....	45
4.15. Products Offered Through “Upstream”	56
4.15.1. Upstream Lighting.....	56
4.15.2. Upstream HVAC	58
4.15.3. Upstream Gas.....	59
4.15.4. Upstream Kitchen Equipment (Electric and Gas).....	60
4.16. Telecommunications Initiative	61

5.	Small Business Direct Install Program	62
6.	Connected Solutions (Active Demand Response)	65
7.	C&I Multifamily Program.....	69
8.	Finance as an Enabling Strategy	70
8.1.	On Bill Repayment (OBR) - Electric	70
8.2.	On Bill Repayment (OBR) - Electric Small Business	71
8.3.	On Bill Repayment (OBR) – Gas	71
8.4.	Efficient Buildings Fund (EBF)	71
8.5.	Public Sector Revolving Loan Fund	79
8.6.	Commercial Property Assessed Energy (C-PACE)	79
8.7.	Ascentium Rental Agreement.....	80
9.	Other Enabling Strategies for Customer Engagement	80
9.1.	Improving Quality and Efficiency in Project Cycle Times	80
9.2.	Energy Management Framework Platform	80
9.3.	Tools for Customers’ Management of Energy Usage	81
9.3.1.	Automated Benchmarking Systems	81
9.3.2.	Building Labeling	81
9.4.	Enabling Technologies	82
9.4.1.	Removable Insulated Jackets for Big Steam Plants	82
9.4.2.	Heat Watch	82
9.4.3.	Cozy™ Radiator Covers	82
9.4.4.	Aeroseal	83
10.	Marketing to Commercial and Industrial Customers.....	83
11.	Commercial and Industrial Measures and Incentives.....	87

Overview

The Commercial and Industrial (C&I) programs consistently offer highly cost-efficient savings. The Company is continuously evaluating and responding to customer needs and market dynamics to develop enhancements that secure deeper, more comprehensive savings while strategically evolving program designs to drive market transformation across multiple end uses.

The C&I sector encompasses a diverse and complex set of customers. National Grid is focused on a Market Sector Approach for commercial and industrial programs. This approach allows the Company to address customer needs that are shaped directly by the industry and geographies in which the customers operate, and on strategic and commercial pressures specific to the industry or sector, resulting in customized solutions that fit customers' needs and increase participation in energy efficiency.

The detailed program descriptions provided in each Annual Plan provide snapshots and evidence of how programs are continuously evolving, building from one plan year to the next. They translate high level strategies into specific actions and activities that secure savings for customers; help to contextualize specific program innovations and enhancements described more briefly in the Annual Plan; and demonstrate how key strategies cross multiple program designs and end use targets.

The detail in this attachment is designed to allow stakeholders, the Public Utilities Commissioners and staff, and other interested parties to delve deeply into and fully explore the complex interplay between specific customer and building types, program implementation and delivery, incentive design, and high efficiency technologies.

What to look for in 2021

The Company has focused on non-lighting opportunities across all commercial programs and program enhancements that help drive progress toward deeper comprehensive measure adoption in every customer class. The specific priority measures vary by customer but are reflective of opportunities highlighted in the Market Potential Study. The innovations and enhancements also reflect many ideas and insights that have evolved from the close collaboration with the EERMC and the EERMC consulting team, OER, the Division, and our vendors, as well as customer feedback. There are new market segment designs under development to engage new customers with tailored approaches to comprehensive savings adoption (new Telecommunications initiative), enhancements that make participation easier or more attractive (see Equipment and Systems Performance Optimization, Small Business), and multiple enhancements that focus on reduction of barriers to comprehensive measure adoptions (ex: Whole Building Streamlined pathway in New Construction).

Equity and workforce development objectives have been applied across the commercial portfolio, resulting in program design shifts and investment prioritization to ensure our small businesses customers are given access to program opportunities and that we succeed in building the workforce infrastructure that can deliver on the vision of transitioning to high performing technologies while also building robust jobs and economic development opportunities for Rhode Islanders. The plan includes trainings to build a workforce to support high performance buildings with advanced technologies, including trainings on advanced controls for HVAC and lighting, as well as an effort to grow the commissioning workforce.

Commercial & Industrial Programs

There are five Commercial and Industrial energy efficiency programs.

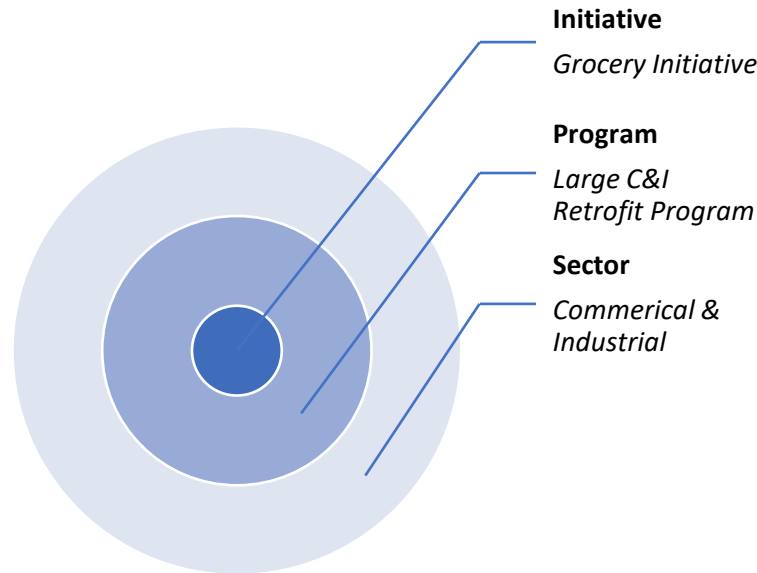
Table 1. Commercial and Industrial Programs

Large Commercial and Industrial New Construction
Large Commercial Retrofit
Small Business Direct Install
Connected Solutions (Active Demand Response)
C&I Multifamily Program

All C&I customers are eligible to participate in the Large Commercial and Industrial New Construction Program and the Large Commercial Retrofit Program. The Small Business Direct Install (SMB/DI) Program, however, is restricted to customers who consume less than 1,000,000 kWh per year. Larger and more complicated measures not offered by the SMB/DI vendor can be accessed by small business customers through the New Construction or Retrofit Programs.

Within a given program, there may be one or more initiatives that offer a targeted approach or tailored delivery design to more effectively and efficiently attract and secure savings from target customers. An initiative is defined as a go to market strategy within a Program that promotes a subset of measures or services within that program and/or targets a certain segment of customers. Examples include the Indoor Agriculture Initiative within the New Construction Program and the Grocery Initiative within the Large Commercial and Industrial Retrofit Program. Anticipated savings, budgets, and participants for each initiative are included in the program-level totals.

Figure 1. Relationship between Programs and Initiatives



This attachment provides detailed descriptions of C&I energy efficiency and active demand response programs and initiatives, including detail on the target market (customer/building types), eligibility requirements, offers, implementation and delivery, and changes for 2021, along with the rationale for changes, in a standardized table format.

Enabling strategies for efficient delivery, better customer experience, and participation in energy efficiency programs are covered in the Finance and Marketing sections. Workforce development is addressed in the main text and covers initiatives for training, education, and awareness. A list of measures and incentives can be found in Section 11. The Company will continue to focus on demonstrations and assessments; please refer to Attachment 8 for a detailed scope and list for each pilot, demonstration, and assessment proposed for the 2021 Energy Efficiency Plan.

Program Description Structure

In order to streamline PUC, stakeholder, and reader access to the most pertinent program information in the 2021 Annual Plan, the Company has adopted the following structure for each of the programs and program initiatives:

Eligibility Criteria	This section describes which customers and/or building types are eligible for participation in the program or initiatives.
Offerings	This section describes the offers available to customers under the program or initiative. It can include technical assistance, incentives, design support, verification services and financial offerings. This

	section also describes the various pathways by which a customer or building can participate in a program or initiative.
Implementation and Delivery	This section describes the process by which the Company engages the customer with energy efficiency programs and offerings.
Customer Feedback	Customer feedback can be received by the Company in various ways; via an implementation vendor, direct feedback from the customer, via surveys conducted by the Company.
Changes for 2021	The section captures the changes proposed in the year stated.
Rationale for Changes	Captures the rationale for the changes proposed in the planning year.
Proposed Upcoming Evaluations	Evaluation information can be found in this section at the program level. Initiatives like the Grocery Initiative or the Industrial Initiative are typically not evaluated. The measures included in these initiatives are evaluated as part of larger evaluations for the programs. Hence at the initiative-level tables you will not see this “Proposed Upcoming Evaluations” section.
Notes	Additional notes related to the program, customer, offerings etc.

Financial Mechanisms Structure

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 for which a customer can borrow funds
Loan Volume	Shows the dollar volume of loans outstanding or the range of funds borrowed in the past years or both
Benefits to customer	Describes the benefits of a mechanism to a customer
Limitations	Describes the limitations of a mechanism to a customer
2021 Actions	This area is included for EBF and C-PACE as the Company is working with RIIB and others on these mechanisms
More information	This area describes where more information can be found on the mechanism such as numeric tables. This area may also include additional

	information such as justifications for OBR fund injections (gas) or OBR rightsizing (electric)
Relevant notes	This area contains notes and will vary from mechanism

Electric Program Goals, Metrics, Budgets, Participation for 2021

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Passive Demand Reduction kW (Electric)	Total Net Lifetime MMBtu (Electric Gas, Oil, Propane ¹)	Budget (\$000)	Participation ²
Electric						

Gas Program Goals, Metrics, Budgets, Participation for 2021

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas				

The below figures compare the distribution of the commercial and industrials sector’s energy savings goals when measured in annual savings compared to lifetime savings. The lifetime metric captures the long-term energy savings whereas the annual metric shows the first year savings only.

¹ For a breakdown of program level energy savings goals see Attachment 5, table E6-A and Attachment 6, table G6-A for more details.

² For information on the metric used to measure participation by program, please reference the main text, section 4.5

Figure 2. 2021 Planned Distribution of Lifetime MWh Goals for C&I Electric Sector

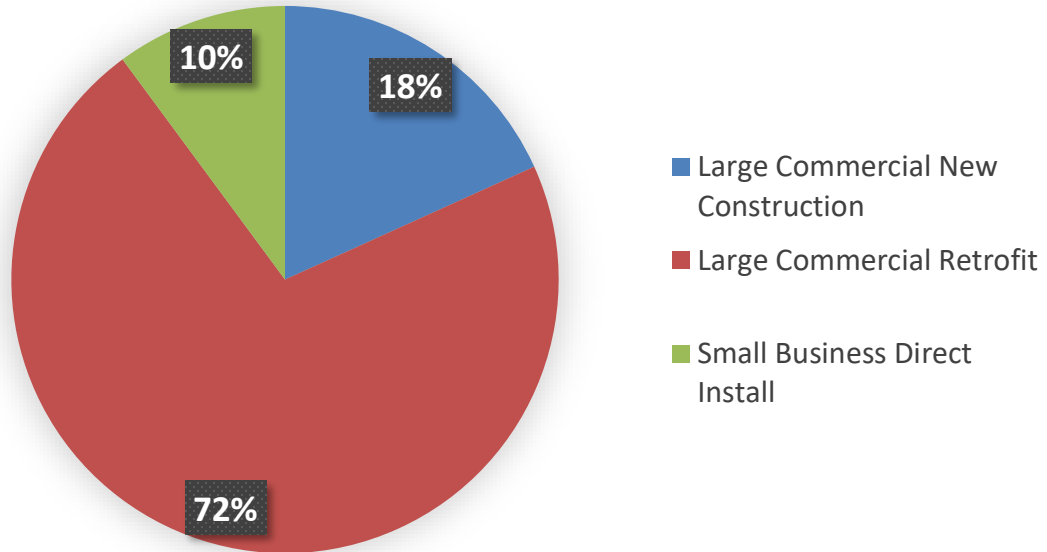


Figure 3. 2021 Planned Distribution of Annual MWh Goals for C&I Electric Sector

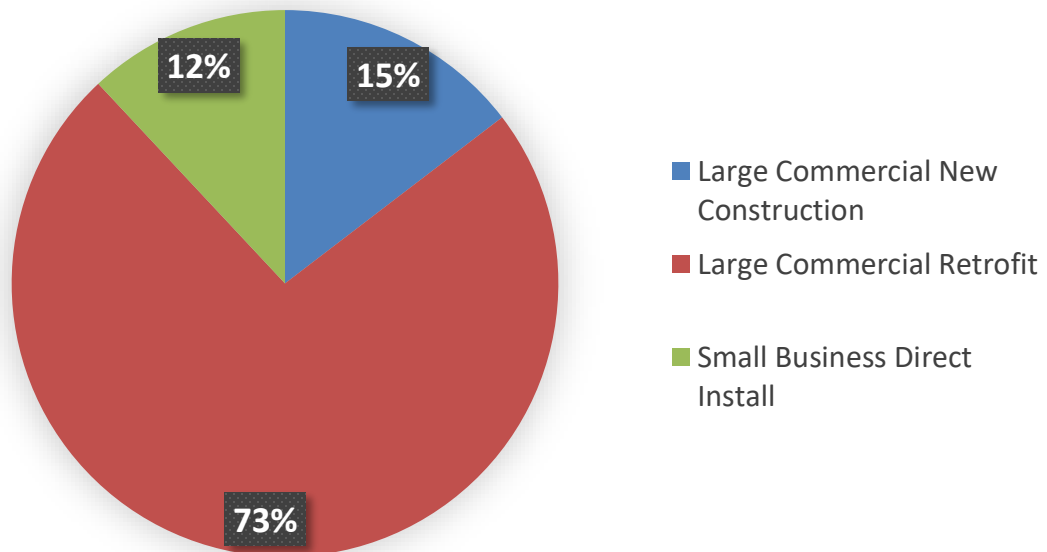


Figure 4. 2021 Planned Distribution of Lifetime MMBtu Goals for C&I Gas Sector

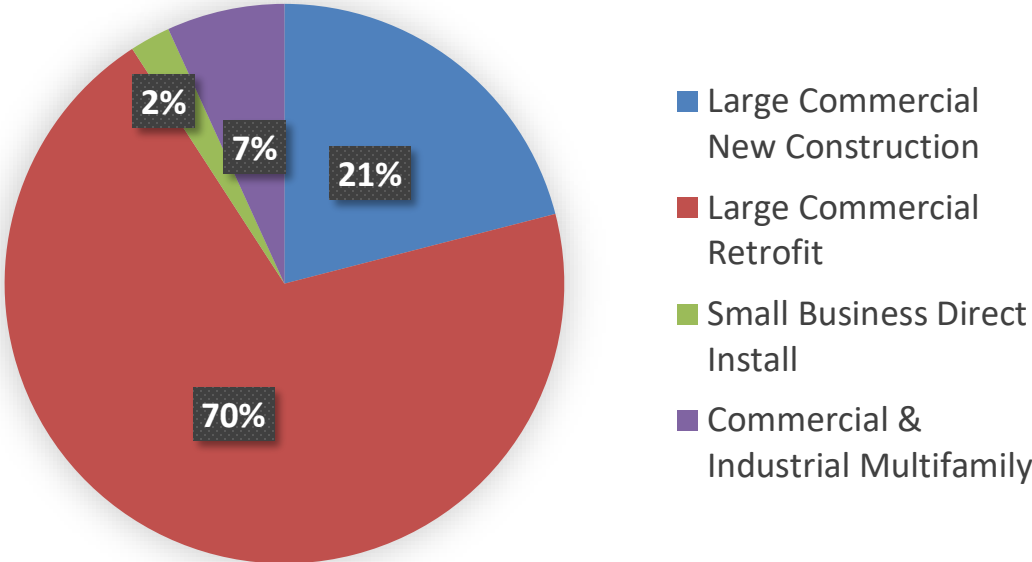
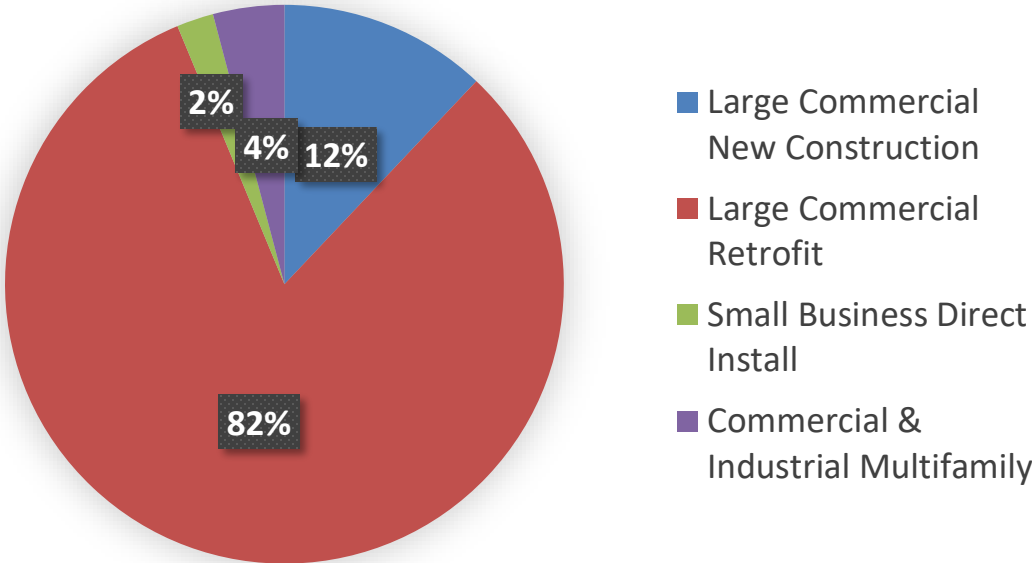


Figure 5. 2021 Planned Distribution of Annual MMBtu Goals for C&I Gas Sector



1. Large Commercial and Industrial New Construction Program

<p>Eligibility Criteria</p>	<p>The New Construction Program is divided into two main categories to address the two primary new construction target markets: those pursuing ground up new construction and major renovations, and those investing in new equipment and major systems upgrades.</p> <p>New Buildings, Additions, Major Renovations and Tenant Fit-Ups This is specifically for projects that are ground up new construction or major renovations, all of which traditionally involve some level of design and are governed by code.</p> <p>End of Life Replacements Typically, there is no design component to these projects. Customers purchasing new energy-consuming equipment or replacing equipment that has reached the end of its useful life are incentivized to purchase and install energy efficient equipment. Customers are encouraged to make efficient choices with every category of equipment purchase. The baseline energy is considered to be the energy code; savings are calculated from the baseline energy. Where equipment has reached the end of its life, savings from new measures are calculated not from the old equipment, but assuming all new equipment against the current codes and standards baselines. This works the same way as the “systems approach” described below, whether through prescriptive or custom pathways.</p>
<p>Offerings</p>	<p>New Buildings, Additions, Major Renovations and Tenant Fit-Ups The services and incentives offered are designed to promote and support high performance building design, equipment selection, and building operation. This program offers both technical assistance and financial incentives based on projected energy savings performance to incentivize building beyond the current RI program energy baseline. Technical assistance ranges from simple plan review and efficiency upgrade recommendations to complete technical reviews. Incentives are available for building owners, design teams, post occupancy verification, and Zero Net Energy certification and verification.</p> <p>The Large Commercial and Industrial New Construction Program offers four pathways for ground up new construction or major renovation projects.</p> <ul style="list-style-type: none"> • Path 1: Zero Net Energy Ready • Path 2: Whole Building Energy Use Intensity Reduction

These two paths are based on achieving energy use intensity (EUI) project goals and are suitable for projects that engage early in the schematic design process.

- **Path 3: The Whole Building Streamlined**
- **Path 4: Systems Approach**

These pathways support projects that are in the design development stage and incorporate energy efficient equipment and energy conservation measures (ECMs).

Table 2. Requirements and Eligibility for Large Commercial and Industrial New Construction Pathways

Zero Net Energy Ready	Achieve 25 EUI or lower	Over 20,000 Square Feet
Whole Building Energy use Intensity	Achieve 10% better than RI Baseline EUI	Over 50,000 Square Feet
Whole Building Streamlined	Custom and Prescriptive ECM measures	20,000 to 100,000 Square Feet
Systems Approach	Prescriptive rebates for installing energy efficient equipment and measures	No Square Foot requirement

Zero Net Energy Ready: This path provides building owners and design teams with energy efficiency expertise and financial incentives to help achieve a very low EUI and Zero Net Energy Ready projects. This path focuses on EUI outcomes during design modeling and in post occupancy. To qualify, the planned building must include a minimum of 20,000 square feet of heated and cooled spaces, commit to achieving an EUI of 25 or less, engage National Grid before 50% Schematic Design, and commit to commission the completed building. An exception to the EUI of 25 or less requirement may be sought based on the type of building or hours of operation.

Whole Building Energy Use Intensity Reduction: This path is based on achieving EUI project goals and is suitable for projects that engage before the end of design development. Buildings over 50,000 square feet (mid- to large-size building) are eligible. This pathway provides energy efficiency expertise to building owners and design teams early in the design process. Technical assistance supports setting aggressive EUI targets and providing financial incentives to meet the EUI goals. To

	<p>be eligible for incentives in this pathway, projects need to achieve a minimum 10% EUI reduction from the RI baseline. The RI baseline for 2021 will be based on the current RI building code.</p> <p>Whole Building Streamlined: This pathway provides design teams and owners energy efficient expertise in selecting the most cost-effective energy conservation measures for small- to mid-sized buildings that are early in project design. This pathway is applicable for projects 20,000 square feet to 100,000 square feet. Incentives are provided based on savings achieved by the energy saving measures implemented (Custom and Prescriptive measures). A whole building spreadsheet analysis tool is used to estimate energy savings and incentives early in the project.</p> <p>Systems Approach: This pathway provides incentives to building owners for incorporating energy efficient equipment into projects under 20,000 square feet and for major renovation projects that do not include the entire building (e.g. tenant fit outs).</p>
Implementation and Delivery	<p>Zero Net Energy Ready:</p> <p>The sales team reaches out to potential customers and design teams that may be interested in building to a Zero Net Energy (ZNE) Ready standard. After vetting a project to ensure that it meets the program requirements, a ZNE expert is brought in to assist the customer in assessing the project and identifying services that may be needed to achieve the ZNE goal. The ZNE consultant will be engaged by the customer, with the fee cost-shared between National Grid and the customer. The ZNE consultant is engaged from early in the project through the end of design development. They provide services such as EUI benchmarking to help set EUI targets, conduct an energy charrette, load reduction analysis, and HVAC selection analysis and model feedback. The customer signs the program memorandum of understanding (MOU). The project incentives are paid out to the customer in two payments: the construction incentive and the post occupancy incentive. The first customer incentive payment (as well as any design team incentive) is paid based on review of the design teams’ model and verification that the design achieves an EUI of 25 or less (or the expected EUI target if there is a special exception). The second customer payment is available when one year post-occupancy data demonstrates the building is achieving the target EUI, confirming that the building is performing as designed. Prior to the post</p>

	<p>occupancy payment, the customer must provide verification that the enhanced commissioning and envelope commission have taken place. The ZNE certification fees will be reimbursed when a project becomes ZNE certified. An optional verification incentive is offered to assist customers in identifying and correcting issues that may arise in post construction to help achieve the EUI during building occupancy.</p> <p>Whole Building Energy Use Intensity Reduction: The National Grid Energy Efficiency sales team reaches out to customers, owners, and developers regarding new construction project opportunities. If the customer decides to participate in energy efficiency programs, the National Grid team engages with the customer project design team and facilitates a design charette to establish customer project goals. Based on the project goals, an EUI target range is established, and a technical assistance (TA) vendor is engaged to model the baseline project and proposed design project. The customer then signs a MOU that outlines the EUI target that is included in the project documents and the post occupancy EUI verification plan and the other incentive details. An application including the energy conservation measures and systems agreed upon is signed by the owner. The owner commits to implement the efficiency recommendations and accepts the associated incentives. A Minimum Requirements Document (MRD) created by the National Grid Tech Rep is created as part of the application process. The National Grid sales team remains engaged during the design development and construction process to ensure energy efficiency measures and solutions are incorporated in the building projects to achieve the EUI targets. After completion, the project undergoes a post inspection that includes a visual inspection and review of construction design submittals. If there are any HVAC controls or variable load ECMs that have been incorporated in the project, field measurements are required to verify operation standards, as described in the Minimum Requirements Document. The EUI measurements are then monitored over a prescribed period, under the prescribed conditions, before final incentive payment is made based on the savings achieved. An optional verification incentive is offered to assist customers in identifying and correcting issues that may arise in post construction to help achieve the EUI during building occupancy. Verification documents must be submitted to obtain the optional verification incentive.</p> <p>Whole Building Streamlined:</p>
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	<p>The National Grid sales team reaches out to the customers who are engaged in new construction. Occasionally, the sales team may be approached by the design team regarding a new building project. If the project meets the path requirements (small to mid-size buildings; between 20,000-100,000 sq.ft.), a technical vendor is brought in at no-cost to the customer to conduct an energy charrette and provide feedback on the building design to increase the project’s energy efficiency. An MOU is signed. The technical vendor monitors the design progress and provides an estimate of energy savings and incentives at a mid-design review. A final technical report is provided at design completion that details the project savings and incentives to develop the incentive application and MRD. Once the building has been built, the customer and design team incentives are paid upon construction and MRD verification.</p> <p>Systems Approach: The National Grid sales team approaches customers, building owners, and owner representatives regarding new construction or major renovation projects. When a customer decides to move forward with a project, the customer has a choice to use their vendor of choice to install measures or to develop the project with technical assistance from the National Grid team. Once the project is installed, the project undergoes inspection of installed measures and review of design submittals. Incentives are paid out to the owner on documented savings from the project.</p> <p>Prior to the launch of the above stated New Construction pathways in 2021, the Company will determine the appropriate incentive structure to drive participation in these program pathways (ZNER, Whole Building EUI pathway, Whole Building Streamlined pathway and Systems Approach).</p>
Customer Feedback	<p>Customer feedback is gained through sales team interactions with customers and design teams, who regularly provide insights on what types of technical assistance and design support moves the builders and architects and end customers to adopt the high efficiency measures and design.</p>
Changes for 2021	<p>The Company will offer two new pathways, Zero Net Energy Ready (ZNER) and Whole Building Energy Use Intensity to drive deeper, more comprehensive savings by using EUI as a tool. For both new</p>

pathways, the Company will **offer technical assistance to building owners and design teams** to set EUI goals and assist with modelling projects at various stages of design including comparison to the RI baseline and predicted EUI. Customers are required to develop a plan for measurement and verification of projects' operational EUI. An optional post occupancy verification incentive is also available to projects. Incentives will be paid \$/square foot on achieving EUI goals. The Company will set the EUI threshold for the two new pathways based on the MA Accelerate Performance demonstration and MA Program Administrators' experience with Zero Net Energy Buildings. Buildings following the Zero Net Energy Ready pathway must achieve a threshold of 25 EUI or less. Buildings pursuing the Whole Building Energy Use Intensity pathway must achieve a threshold of 10% better than the RI baseline EUI.

The Company will **modify and rename the Integrated Design pathway the Whole Building Streamlined pathway**, which is targeted to small and medium buildings. The goal is to simplify the process by using a streamlined spreadsheet methodology to calculate savings in to increase participation by smaller buildings.

Prior to the launch of the above stated New Construction pathways in 2021, the Company will **determine the appropriate incentive structure to drive participation in these program pathways** (ZNER, Whole Building EUI, Whole Building Streamlined and Systems Approach).

In January 2021, **RI plans to adopt the 2018 IECC building code**. RI program baselines, where applicable, will then be based on the 2018 IECC Building code and savings calculations will be based upon achievements over this new higher baseline. This is an improvement from the 2019 adoption of the 2015 IECC building code, which meant that 2020 RI program-based savings were based on savings above 2015 IECC code.

The Company plans to **determine a pathway to incentivize architectural firms to participate in the American Institute of Architects (AIA) 2030 Challenge** (https://architecture2030.org/2030_challenges/2030-challenge), which aims to transform the practice of architecture in a way that is holistic, firm-wide, project based, and data-driven. By prioritizing energy performance, participating firms can more easily work toward

	<p>carbon neutral buildings, developments and major renovations by 2030. Participating architectural firms commit to tracking the Energy Use Intensity of their projects and their portfolio annually and then reducing their designed EUI to a carbon neutral level by 2030. The Company will research an AIA 2030 Challenge offering in 2021 and determine a path forward in 2021-2022.</p>
<p>Rationale for Changes</p>	<p>Realized savings in the existing New Construction program have declined. Thus, in the past two years, the Company tested the EUI target as a way to achieve deeper savings with new construction projects through the Accelerate Performance demonstration in both MA and RI. While in RI there was no participation in the program, in MA the Program Administrators have had success with the demonstration.</p> <p>The rationale for introducing two new pathways – ZNER and Whole Building EUI – is to drive deeper, more comprehensive savings by using EUI as a tool. Incentives will be based on actual building performance versus modeled savings. The Company believes these changes in the program pathways will result in higher realized (actual) savings in new construction projects.</p>
<p>Proposed Upcoming Evaluations</p>	<p>There are a number of ongoing and new evaluations planned for 2021. The following evaluations are relevant to the Large C&I New Construction Program, as well as the Large C&I Retrofit Program.</p> <ul style="list-style-type: none"> • PY2019 Impact Evaluation of Custom Gas Installations (continued from 2020) • PY2020 Impact Evaluation of Custom Gas Installations (to begin in 2021) • PY2018 Impact Evaluation of Custom Electric Installations (continued from 2020) • PY2019 Impact Evaluation of Custom Electric Installations (continued from 2020) • PY2020 Impact Evaluation of Custom Electric Installations (to begin in 2021) <p>The following evaluation is specific to the Large C&I New Construction Program.</p> <ul style="list-style-type: none"> • C&I ISP and Baseline (to begin in 2021)
<p>Notes</p>	

Large Commercial and Industrial New Construction – Electric Program Goals, Metrics, Budgets, Participation for 2021

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Passive Demand Reduction kW (Electric)	Total Net Lifetime MMBtu (Electric Gas, Oil, Propane)	Budget (\$000)	Participation
Electric	189,441	11,837	1,856	605,151	8,500	144

Large Commercial and Industrial New Construction – Gas Program Goals, Metrics, Budgets, Participation for 2021

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	437,398	27,631	2,759	61

2. Initiatives Specific to Large Commercial and Industrial New Construction Program

2.1. Performance Lighting Plus

<p>Eligibility Criteria</p>	<p>Any customer with a commercial meter is eligible to participate in this initiative. All projects that qualify under this incentive must:</p> <ul style="list-style-type: none"> • Be a new construction or renovation project that includes the installation of new fixtures and qualifying lighting controls for commercial, industrial, educational, or municipal building(s). • Be a code-dependent project or extensive/substantial renovation. • Average a minimum of 2,000 hours per year. • 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.
<p>Offerings</p>	<p>Incentives</p> <p>Incentives may be offered for reducing the code mandated Lighting Power Density from the IECC baseline or a component-based approach that has been successful for other utilities/ program administrators. Additionally, design assistance will be made available to customers for the purpose of optimizing lighting design and lighting energy savings. The objective of the design assistance is to influence the lighting project at an early stage and to ensure that energy efficiency is considered and support throughout the implementation of the project</p> <p>The precise incentive offerings and requirements for Performance Lighting Plus are still being revised for 2021 in concert with National Grid’s Massachusetts colleagues. The Company will update this offering so that it is easier for customers to proceed along this path, remove inconsistencies, and make updates that reflect changes in the lighting market. The changes will be complete and published no later than Q1 2021.</p> <p>While details will be finalized with respect to the aforementioned considerations, the finished work product will be similar to the previous version of the Performance Lighting Plus initiative in that there will be multiple tiers where additional controls savings or fixture capabilities will lead to a larger incentive offering. New construction and retrofit projects will both be able to participate in this offering.</p>

	<p>The new offering is likely to differ from the previous offering in the following ways:</p> <ol style="list-style-type: none"> 1. TLEDs without controls may be excluded from all tiers of the offering, including the base offering. Other utilities/ program administrators have already instituted this change in other states. 2. The Company will consider integrating the benefits of active demand response, a requirement of Tier 3 projects, into the sales presentation for this offering. 3. Incentives will most likely be stated to the customer in \$/Square Foot (SF) or \$/kWh saved as opposed to watts saved. <p>The Company commits to working with the lighting sub-group of EERMC consultants to take into account other important factors before the offering is complete and published to customers.</p>
<p>Implementation and Delivery</p>	<p>Application Forms</p> <ul style="list-style-type: none"> • Applications for Performance Lighting Plus incentives are made available through vendors, 3rd party implementers, and Customer Solution Sales Team. However, applications can also be created and submitted online using the Rhode Island Application Portal (RIAP). <p>Pre-Approval Requirements</p> <ul style="list-style-type: none"> • The Customer must submit a copy of the Manufacturer’s technical specification sheets (“cut sheets”) for each type of eligible equipment to be purchased. • Once pre-approved, a “pre-approved incentive letter” will be issued. <p>Installation and Incentive Requirements</p> <ul style="list-style-type: none"> • Once pre-approved, the customer must purchase and install the qualifying equipment within twelve (12) months of National Grid’s pre-approval • Next, the Customer must return the following required information to National Grid within 30 days of the installation: <ul style="list-style-type: none"> ○ A copy of the completed and signed pre-approval application ○ If there is a change in equipment, the customer must submit a new manufacturer’s technical specification

	<p>sheets (“cut sheets”) for each type of eligible equipment purchased</p> <ul style="list-style-type: none">○ A copy of the invoice indicating Proof of Purchase must indicate type, size, make, and model number of the equipment and date of purchase and installation○ At the post-installation verification, the customer must sign the post-installation customer acknowledgement section of the original application <p>Application Process and Requirement for National Grid Approval</p> <ul style="list-style-type: none">● The customer shall submit a completed application to National Grid. The customer may be required to provide National Grid with additional information upon request by the National Grid. The customer will, upon request by the National Grid, provide a copy of the as-built drawings and equipment submittals for the facility after energy efficiency measures are installed. To the extent required by the National Grid or by applicable law, regulation or code, this analysis shall be prepared by a Professional Engineer licensed in Rhode Island.● To be eligible for performance lighting plus incentives, a customer must have an active electric account.● The National Grid reserves the right to reject or modify the customer’s application. National Grid may also require the customer to execute additional agreements, or provide other documentation prior to National Grid approval. If National Grid approves the customer’s application, National Grid will provide the customer with the Approval Letter.● National Grid reserves the right to approve or disapprove of any application or proposed performance lighting plus incentive.● The criteria listed under Application Process and Requirement for National Grid Approval do not apply in the event that the Program Materials explicitly state that no Approval Letter is required for the Program. In such an event, the customer must submit to National Grid the following:<ul style="list-style-type: none">○ Completed and signed Program rebate form○ Original date receipts for purchase and installation of energy efficiency measures, and○ Any other required information or documentation within such time as Program Materials indicate.
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	<p>Pre- and Post-Installation Verification; Monitoring and Inspection</p> <ul style="list-style-type: none"> • The customer shall provide access to their facility and energy efficiency measures for National Grid’s pre-installation and post-installation verifications. Such verifications must be completed to National Grid’s satisfaction. • National Grid may perform monitoring and inspection of the energy efficiency measures for a three-year period following completion of the installation in order to determine the actual demand reduction and energy savings.
Customer Feedback	Customer feedback is gained through sales team interactions with customers and design teams, who regularly provide insights on what types of technical assistance and design support moves the builders and architects and end customers to adopt the high efficiency measures and design. The Company is also exploring the potential value of a lighting survey for designers, reps, and contractors involved in this program as the result of discussions with the EERMC Consultants.
Changes for 2021	The precise incentive offerings and requirements for 2021 are still being revised in concert with National Grid’s Massachusetts colleagues. The Company will update this offering so that it is easier for customers to proceed along this path, remove inconsistencies, and make updates that reflect changes in the lighting market (see Offering section above for additional detail). The Company commits to working with the lighting sub-group of EERMC consultants to take into account other important factors before the offering is complete and published to customers.
Rationale for Changes	The goal of these changes is to increase savings through this pathway by: <ul style="list-style-type: none"> • Simplifying the application and processing; • Ensuring that that incentives are calibrated correctly in relationship to the lighting portfolio; and • Ensuring that vendors understand the benefits and proper installation of these systems.
Notes	Although this program is located in the New Construction section of this plan, it may also be utilized in Retrofit applications as well.

3. Large Commercial Retrofit Program

Eligibility Criteria	The Large Commercial Retrofit Program serves the needs of existing buildings in their pursuit to lower energy consumption. All commercial and industrial customers are eligible for the Large Commercial Retrofit Program.
Offerings	<p>The Company has several pathways by which customers can participate in the Large Commercial Retrofit program for energy efficiency in existing buildings. Customers can participate via the:</p> <ul style="list-style-type: none"> • Prescriptive application process; • By working with a National Grid 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 • Via an Upstream program. <p>The retrofit program also has initiatives specific to Market sectors such as grocery and manufacturing/industrial initiatives that focus on specific needs of that customer type.</p> <p>The Company serves some of its largest customers through Strategic Energy Management Plans (SEMPs). The company has Memorandums of Understanding (MOUs) with these customers that specify savings targets and resources. These are described in more detail in section 4.5.</p> <p>The Company has found that although sector specific initiatives and SEMP are helpful in gathering more savings and completing measures beyond lighting, they do not cover our entire customer base. The following areas that are specific to a technology or do not address a specific market sector are also included as part of the Large Commercial Retrofit program and are included in this section of the plan:</p> <ul style="list-style-type: none"> • Customer Owned Streetlights • Company Owned Streetlights • Equipment & System Performance Optimization • Combined Heat and Power (CHP) • Fuel Cells
Implementation and Delivery	<p>Prescriptive Application</p> <p>Customers complete a prescriptive application through the Rhode Island Digital Application Portal (RIDAP);</p>

	<p>https://www.ridap.nationalgridus.com) for a wide variety of energy efficient products such as lighting, air compressors, or variable speed drives (VSDs).</p> <p>Upstream Customers can purchase qualified products such as luminaires, kitchen equipment, water heating equipment, or more efficient heating and cooling technologies at participating distributors at a discount without needing to submit an application. These are collectively known as the Upstream Initiatives. These are described on more detail in section 4.15.</p> <p>Custom Application National Grid Sales Representatives or a Project Expeditor (PEX) assist customers to complete custom applications for any energy conservation measure that is not covered by Prescriptive or Upstream pathways.</p>
Customer Feedback	Please see Initiatives sections for customer feedback.
Changes for 2021	<p>In 2021, the Company will launch a new Telecommunications Initiative to serve mobile, fiber optic, and cable data companies and their associated infrastructure through technical assistance, project management, and incentives, delivering savings from non-lighting as highlighted in the Market Potential Study. This initiative is described in more detail in section 4.16.</p> <p>In 2021, the Company will pursue a custom fuel cell project that will enable the customer to generate on-site electricity and reclaim carbon dioxide for process related needs. The project is currently in the design phase but is expected to be installed by late 2021.</p> <p>Specific changes to initiatives in 2021 are described in section 4 below.</p>
Rationales for Changes	Changes in the Large Commercial Retrofit programs will help generate savings, address customer and vendor feedback, and provide more customized solutions and options.
Proposed Upcoming Evaluations	<p>There are a number of ongoing and new evaluations planned for 2021. The following evaluations are relevant to the Large C&I Retrofit Program, as well as the Large C&I New Construction Program.</p> <ul style="list-style-type: none"> • PY2019 Impact Evaluation of Custom Gas Installations (continued from 2020)

	<ul style="list-style-type: none"> • PY2020 Impact Evaluation of Custom Gas Installations (to begin in 2021) • PY2018 Impact Evaluation of Custom Electric Installations (continued from 2020) • PY2019 Impact Evaluation of Custom Electric Installations (continued from 2020) • PY2020 Impact Evaluation of Custom Electric Installations (to begin in 2021) <p>The following evaluations are specific to the Large C&I Retrofit Program.</p> <ul style="list-style-type: none"> • Upstream Lighting Impact Analysis (continued from 2020; MA study with RI sites) • Strategic Energy Management Demonstration Evaluation (continued from 2020)
Notes	

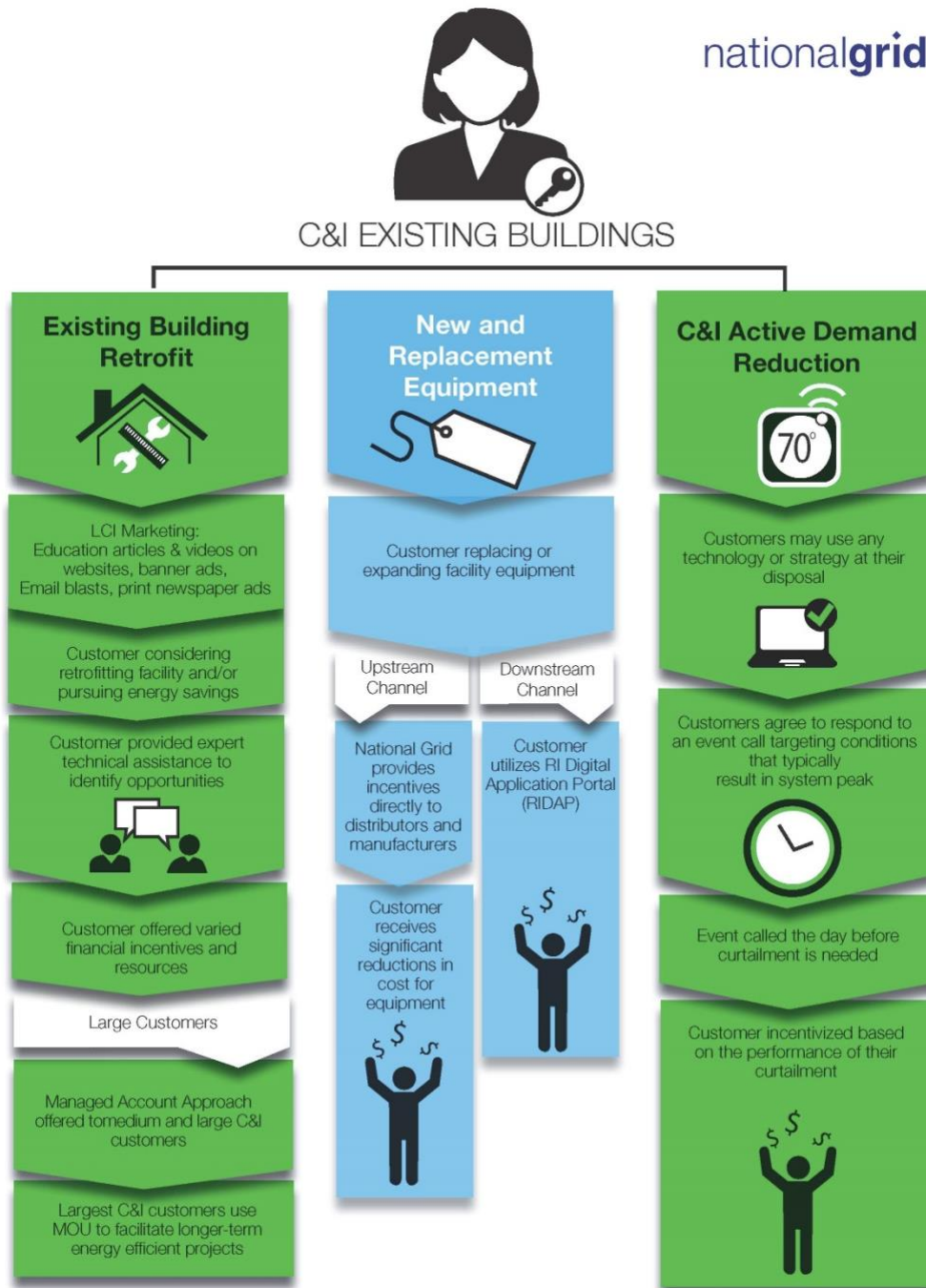
Large Commercial Retrofit – Electric Program Goals, Metrics, Budgets, Participation for 2021

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Passive Demand Reduction kW (Electric)	Total Net Lifetime MMBtu (Electric Gas, Oil, Propane)	Budget (\$000)	Participation
Electric	744,562	59,496	11,648	1,795,610	31,930	3,146

Large Commercial Retrofit – Gas Program Goals, Metrics, Budgets, Participation for 2021

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	1,455,776	187,283	5,169	98

Figure 6. Large Commercial Retrofit Program (Existing Buildings)



4. Initiatives Specific to Large Commercial Retrofit Program

4.1. Grocery Initiative

Eligibility Criteria	EnergySmart Grocer (ESG) is an initiative that serves commercial customers who sell food at the retail or wholesale level.
Offerings	Technical assistance, project management, incentives, financing, installer and customer educations sessions.
Implementation and Delivery	<p>This program is administered by the vendor. Company Account Managers associated with each vendor partner with the sales team to develop a relationship with the prospective customer. Once the relationship is established, EnergySmart Grocer (ESG) offers no-cost audits to the customer. This audit documents and identifies energy efficiency opportunities for the store's refrigeration, lighting, HVAC and kitchen equipment. Once the audit is complete, an Energy Savings Report is generated and presented to the customer.</p> <p>EnergySmart Grocer works with the customer's contractor to obtain a quote for the work. If the customer decides to move forward with the project, EnergySmart Grocer will generate an application, collect all necessary paperwork, and submit to National Grid for pre-approval. Once the project is complete, ESG will collect all invoices and final signatures, and complete a post-inspection verification to ensure the measures are installed as intended. ESG will submit all paperwork to National Grid and notify the customer when the incentive check is in the mail.</p> <p>ESG Account Managers maintain relationships with the customer. For smaller independent chains, the program uses an inform-to-invest strategy where the success of the first project is leveraged to pursue deeper and more expensive measures. For the regional and national chains, Account Managers schedule regular check-ins with the customer's Energy Manager to check-in on active projects and learn of future projects.</p>
Customer/Vendor Feedback	Customer feedback flows through the ESG Initiative vendor to internal parties at National Grid. The Company's vendor has asked for financing support for small and mid-size independent grocers, as they believe this will allow such customers to commit to projects more quickly or increase the number of measures installed. The Company will provide this assistance through OBR or through an

	interest buy down mechanism in partnership with third party providers of debt capital.
Changes for 2021	New measures will be deployed in 2021 including energy efficient hand dryers, anti-fog film, and adding doors to self-contained refrigerated cases to support “click and collect” customers who purchase their groceries online and pick them up in designated in-store locations. The Company will provide financing support for small- and medium-sized independent grocers through OBR or through an interest buy down mechanism in partnership with third party providers of debt capital.
Rationale for Changes	See customer feedback for financing changes. New measures are offered to maintain savings within this sector and provide customers with more options to save energy.
Notes	The Company will conduct an assessment investigating the energy savings and carbon reduction benefits of integrating leak detection and repair as a standard offering. Currently this work is done when leaking refrigerant is visible to the naked eye or identified as a problem by the customer.

4.2. Industrial Initiative

Eligibility Criteria	The Industrial Initiative offerings are available to all manufacturing and industrial customers.
Offerings	The following assistance and incentives are provided under the Industrial initiative: technical assistance; project management; measure incentives; installer and customer education sessions; monitor-based commissioning; production systems and line efficiency coordination; and support in identifying and implementing process-related energy efficiency improvements that increase the efficiency of both energy use and business processes. The ability to participate in the Strategic Energy Management Demonstration, now called the Continuous Energy Improvement demonstration, has been offered to industrial and manufacturing customers since 2019. These customers will continue to be able to participate through 2021, the final year of the demonstration. Please refer to Attachment 8 for details on the demonstration, which is implemented by a separate vendor from the Industrial initiative.

Implementation and Delivery	<p>The National Grid Sales Representative is responsible for identifying customers or “leads” for the Industrial Initiative Vendor to pursue for participation in the Industrial Initiative. The Company’s trade allies also provide additional leads directly to the Industrial Initiative vendor.</p> <p>Prior to the initial site visit, National Grid provides the Industrial Initiative vendor with customer billing and interval data. This allows for the following analysis, some or all of which are typically done by the Vendor: interval data analysis; peak day loads; average weekday load shapes; average weekend consumption; base load energy usage; and a review of electric and gas usage and weather correlations (heating/cooling). In some cases, based on this analysis, the customer may be referred to the Company’s demand response program.</p> <p>A kickoff meeting is scheduled with the National Grid Sales Representative and the Customer. The National Grid Technical Representative is also notified and welcome to participate. The kickoff meeting is typically followed by a site tour to identify potential energy efficiency measures. During the site tour, metering equipment may be deployed to assist with energy efficiency measure development.</p> <p>After the initial site visit, the Industrial Initiative vendor provides the customer and National Grid a follow up report on the opportunities identified and next steps. The report is typically reviewed with the customer and the Sales Representative. The measures identified are tracked in the Industrial Initiative vendor’s Customer Relationship Management (CRM) system.</p> <p>The Industrial Initiative works closely with the customer’s facility staff and vendors/contractors to develop “custom measure” workbooks to calculate potential savings and the incentives. A “Tech Check” is submitted to the National Grid Technical Representative and Sales Representative to validate the proposed savings calculation methodology before the workbook is developed. Once the Company approves the custom workbook, the Sales Representative communicates the incentive to the customer.</p> <p>The Industrial Initiative Project Manager facilitates the application process from the earliest stage of measure through</p>
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	<p>the completion of the project. The incentive application process may include formal status meetings with the Company’s Sales Representative and the Industrial Initiative vendor.</p> <p>To facilitate continuous improvement, the Technical Representative, the Sales Representatives and the Industrial Initiative vendor work together to continually engage and encourage the customer to realize more comprehensive energy savings.</p>
Customer/Vendor Feedback	<p>Customer feedback flows through the Industrial Initiative vendor and Sales Representative to internal parties at the Company. Feedback suggested using a service such as “DocuSign” to facilitate the application approval process, which the Company will implement in 2021. It was also recommended that the Company add business rules that account for savings accuracy when approving smaller “custom” projects so that the customer receives an approval quickly without excessive information requests, which is under consideration.</p>
Changes for 2021	<p>The Company will add a digital signature option to the application approval process.</p> <p>The initiative will increase focus on customers in the 200-400 kW range to encourage greater participation by small- and medium-sized commercial customers.</p>
Rationale for Changes	<p>The digital signature process was recommended by customers and the industrial initiative vendor to reduce administrative burden and expedite project sign-offs.</p> <p>Small- and medium-sized commercial and industrial customers have not realized the same percent energy reduction via efficiency as their larger counterparts. The Company is working with the Industrial Initiative vendor to increase participation among this valuable customer segment.</p>
Notes	<p>The Industrial Initiative has installed and performed energy efficiency assessments on a number of the measures identified in the Market Potential Study including but not limited to: Boilers, Boiler Tune-Ups, Heat Recovery, HVAC Equipment and Systems, LED Lighting, Energy Management Systems, Demand Control Ventilation, System Controls, and Steam Traps.</p>

4.3. National and Regional Restaurant Initiative

Eligibility Criteria	<p>The Serve Up Savings (SUS) initiative will serve regional/multi-state and national restaurant chains not currently engaged with Strategic Energy Management Partnership Agreements (SEMPs). Restaurants with multiple locations within Rhode Island only will be served by the Small Business Program.</p>
Offerings	<p>Technical assistance, project management, incentives, work with franchisors to come up with a package of measures that will work for their franchisees</p>
Implementation and Delivery	<p>Serve Up Savings works hard to minimize the effort needed for the customer to participate in the program. The first interaction is a Serve Up Savings Account Manager reaching out to the customer to introduce the program and schedule an audit of their stores. Once the audits are complete, the program puts together an Energy Savings Report which details the energy efficiency upgrade opportunities. The program works with the customer's preferred contractor or recommends three if they don't have one. The program obtains a bid for the work, so the customer can decide to move forward based on their financial metrics.</p> <p>The program will collect all required paperwork and submit to National Grid for pre-approval of incentives. Once pre-approved, the program will send the customer a commitment letter which details the financial incentives. The customer contracts directly with the contractor to complete the work. Once the work is finished, the program completes a post-inspection as well as collects all final paperwork. The program submits all paperwork to National Grid and a check is sent to the customer. The program leverages this check to push installation of the next set of measures to be installed at their stores.</p>
Customer/Vendor Feedback	<p>The Company's vendor regularly collects insights and feedback from customers. National Grid's sales team and program managers regularly check in with vendors to capture this feedback.</p>
Changes for 2021	<p>No changes are anticipated for 2021.</p>
Rationale for Changes	<p>N/A</p>
Notes	

4.4. Lodging Initiative (including On Premise Laundry) Research

Eligibility Criteria	A prospective future Lodging Initiative (LI) would serve hotels, motels, and resorts. The Company envisions that it would also include On Premise Laundry (OPL) at commercial laundry facilities, hospitals, colleges, and lodging facilities.
Offerings	Based on current research, the Company needs to further understand and document the barriers facing this industry and barriers to specific EE technologies that may be deployed within it. Once that process is complete in 2021, the Company will be better positioned to provide holistic offerings to this market segment. Envisioned offerings pending further research include technical assistance, project management, incentives for energy efficiency measures including on premise laundry solutions, and installer and customer education sessions. For more details please see the “Changes for 2021” section below.
Implementation and Delivery	<p>The Company will further research implementation and delivery mechanisms for this initiative in 2021 along with research into customer barriers.</p> <p>The Company continues to serve this market, as in previous years, with a salesperson for very large hotels and a salesperson for national or regional hotels. Small hotels may participate in Small Business offering. Customers of all sizes may participate in the numerous offerings in our Upstream lighting, water heating, and HVAC initiatives.</p>
Customer Feedback	None to date as this initiative is not currently active, but in the research phase.
Changes for 2021	<p>It has been difficult to find an existing vendor to serve these markets. Therefore, the Company employed an external vendor, who will continue to research important areas of focus such as the savings and best practices for deployment of guest room energy management systems (GREMS), kitchen hood controls, and ozone laundry, so that the Company can capture these opportunities without an unifying vendor. This effort will be complete by Q2 2021.</p> <p>The external vendor will also assist the Company in identifying key attributes of successful future vendors and helping craft a scope of work, as National Grid believes that a vendor can provide better customer experience and deeper savings than approaching individual technologies.</p>

Rationale for Changes	Based on research conducted by the Company in 2020, further investigation is required on customer barriers, best practices for deployment of technologies, and program design and implementation. These will be researched in 2021.
Notes	

4.5. Strategic Energy Management Planning (SEMP)

Eligibility Criteria	The Strategic Energy Management Plan (SEMP) Initiative is available to the Company’s largest C&I customers, including chain restaurants. The SEMP initiative targets customers who have the potential to go deeper with energy efficiency, have a level of in-house sophistication to make organizational changes to incorporate multi-year energy planning, and are motivated by corporate and institutional sustainability goals.
Offerings	<p>SEMP provides customers with customized support allowing flexibility to address the energy efficiency and sustainability opportunities of the organization and its facilities in the context of the Company’s self-identified business needs. Working with a SEMP gives the customer the opportunity to think long-term about their energy needs and equipment, resulting in more comprehensive savings compared to the more traditional energy efficiency programs. Where appropriate and valued by the customer, automated benchmarking will be available to help demonstrate the impact installing energy efficiency measures can have on the energy usage of the facilities.</p> <p>Colleges and Universities</p> <p>These are currently served through either the Company’s large commercial programs with a dedicated sales team or the Company’s SEMP initiative. With a master-metered portfolio of buildings within the campus, most universities are tied to sustainability goals and climate action plans to reduce their greenhouse gas emissions. The Company’s SEMP initiative allows enrolled university customers to engage in multi-year campus energy planning and assists them in identifying comprehensive and long-term energy efficiency opportunities. The Company has three SEMP agreements in place with colleges and universities and is currently engaged in conversations with three other college campuses in Rhode Island for SEMP agreements. The Company will continue to explore</p>

	<p>opportunities for further SEMP university customers and provide energy efficiency services to universities in Rhode Island outside the SEMP model for those universities not wishing to participate in a SEMP.</p>
<p>Implementation and Delivery</p>	<p>A Memorandum of Understanding (MOU) offers a way to document a commitment between the customer and the Company to work together to achieve mutually stated goals through specific actions that are tailored to the customer’s facilities over a multi-year planning horizon. As such, an MOU (though non-binding in this case) can set the stage for achieving deeper and more comprehensive energy efficiency savings and is more likely to succeed than a “one measure” or “one year” approach.</p> <p>Typically, MOUs include participation and a commitment by upper management, the establishment of specific, very aggressive energy efficiency saving targets, and measurement and verification strategies to document savings throughout the target facilities, supported by an incentive structure that meets the customer’s financial criteria. To support customers setting aggressive kWh and therm savings goals under SEMP, there are several items that are reviewed:</p> <ul style="list-style-type: none"> • Customer’s total kwh and therm usage on all accounts • Customer’s percentage of energy reduction over the last 5 years through EE measures • Customer’s capital project plan • High level measure identification by the Company’s TA vendor for potential savings over the 3-year SEMP <p>This offering goes far beyond energy efficiency into sustainability and branding support for the customer. The Company also engages SEMP customers with non-energy efficiency solutions, such as renewables, storage, electric vehicles, and distributed energy resources and technologies.</p> <p>The Company currently has six SEMP MOUs. Three are large university campuses, one is with a large chain restaurant, and one with a large commercial customer. In addition, a State SEMP focused on State facilities has been in place since 2016. Projects and savings vary by year. As an example of the electric savings, the 2021 annual goal for 3 colleges/universities combined is approximately 2,011 MWh and 73,334 Therms.</p>

Customer Feedback	One customer commented that the MOU process is streamlined and easy to work with.
Changes for 2021	In 2021, the Company will ramp up efforts to engage more customers with SEMP initiatives . Potential customers include colleges and universities in Rhode Island not yet engaged with SEMP, cities, industrial customers, and chain restaurants. In 2021, educational SEMP customers will have access to specialty services from an energy solutions provider who specializes in campus energy infrastructure from energy efficiency to mechanical/electrical infrastructure needs.
Rationale for Changes	The changes proposed for the SEMP initiative will allow for more comprehensive services for customers as well as increase participation in the SEMP initiative.
Notes	

4.6. Municipal and State Buildings SEMP

Eligibility Criteria	The Company currently has in place a three-year State SEMP. This SEMP includes municipalities, State buildings, Quasi State buildings, water and waste water facilities, State Colleges, State Universities and public K-12 Schools.
Offerings	Following a successful joint MOU signed by the Company, OER, the Department of Administration (DOA) and the Department of Capital Asset Management and Maintenance (DCAMM) designed to integrate strategic energy planning across State and Quasi State facilities from 2016 to 2019, the State SEMP was renewed for another 4 years in 2020. The 2020-2023 MOU has a goal of achieving a 10% energy use reduction by end of 2023. The Company provides specific support to State and Municipal buildings through project management, implementation support, technical support and financial mechanisms to achieve energy efficiency in State, Quasi-State and municipal buildings. This is in addition to incentives available through Energy Efficiency programs. Project/Energy Management Support: The time and expertise required to identify, develop, and oversee these projects can be beyond the resource capacity of many towns and cities. The

	<p>Company provides this support as part of the State and Municipal initiative and via a SEMP.</p> <p>Implementation Support: The Company provides support for energy efficiency project implementation via previously successful vendors. Municipalities recognize the value of this support, as it provides a trusted partner to bring the time and expertise they lack to identify, develop, and oversee complex projects. To continue to serve this sector, there are several support mechanisms in place:</p> <ul style="list-style-type: none"> • URI Energy Fellows support municipalities as they learn to use Portfolio Manager as well as meet the Efficient Building Fund’s energy reporting and energy management plan development requirements. National Grid also has an automated process by which customers can authorize upload of utility data onto Portfolio Manager. This system is used for benchmarking via Portfolio Manager (see section 9.3.1). • The Company supports municipal engagement in OER and programs like vendor selection, engineering support, and implementation of upgrades through the energy efficiency programs. • The Company provides energy audits to select municipal/school/wastewater customers to support energy efficiency applications. In the past few years the Company has provided approximately 50 energy audits annually. <p>For financing in this sector, the Company will continue to offer On-Bill Repayment for electric and gas measures. Schools and municipalities will have access to the same processes that were developed for the State, including consulting for procurement and product selection, retro commissioning, incentive calculations, new construction support and other services to ensure successful project installation.</p>
Implementation and Delivery	The process of participating in the State SEMP is the same as described above for other SEMPs.
Customer Feedback	The initiative has received feedback regarding some challenges with the additional of schools to the SEMP including funding, timing, and collaboration among multiple stakeholders.
Changes for 2021	The SEMP will target a 10% reduction in energy use by the above stated facilities by 2023.

Initiatives Specific to Large Commercial Retrofit Program

	The Company will work with multiple State agencies on exterior lighting projects.
Rationale for Changes	By targeting an additional 10% reduction in energy use by 2023, these facilities will save money that can be used for additional energy efficiency projects in the future. The addition of K-12 public schools to the State SEMP in 2020 is one of the most efficient ways to work with this sector.
Notes	Building Operator Certification classes sponsored by National Grid in the Rhode Island and Massachusetts service areas are available to schools and many school facility managers have taken advantage of this program and follow up by actively engaging in energy efficiency solutions at their facilities.

4.7. Equipment & System Performance Optimization

Eligibility Criteria	The Equipment & Systems Performance Optimization (ESPO) Initiative is available to all C&I customers averaging greater than 2,000 building operating hours a year. The ESPO initiative offers three pathways (Low Cost Tune-Up, Targeted Systems Tuning, and Whole Building and Process Tuning) to accommodate different customer segments and building needs. The ESPO initiative is designed to optimize equipment and systems, and includes optimizing building energy controls and process system operations. The systems optimization may include retro-commissioning (RCx), operations & maintenance (O&M), and Monitoring Based Commissioning. This initiative falls under the Large Retrofit Program.
Offerings	ESPO provides three pathways for participation depending on the customer’s energy efficiency opportunity, building type, and age and sophistication of existing control systems. The vendor and technical support team will work with the customer to select the best pathway for participation and energy savings. The three pathways are: Low-Cost Tune-Up: The Low-Cost Tune-Up offers technical support and prescriptive energy conservation measures to customers that have isolated items in need of standard tuning. In addition to identifying standard tuning, the technical support will help to identify easy to install efficiency measures that can be implemented by the customer’s facility staff, maintenance contactors, or retro-commissioning vendors. Pre-approval for implementation is required

	<p>before the customer or outside party can receive an incentive on the installation. Incentives are provided to sites where the baseline condition and the proposed upgrade are documented through a simple data input, requested in the application, which is used to determine savings at the measure level. Only selected HVAC, steam, refrigeration, and compressed air measures are eligible for prescriptive incentives. An additional performance incentive of \$0.03 per kWh and \$0.20 per therm is available to customers that reduce at least 2.75% of the facility's annual electric consumption and 1.5% of the facilities annual gas consumption.</p> <p>Targeted Tuning: The Targeted Tuning approach offers an in-depth investigation and tuning process for building systems and process lines. Rather than looking at the whole building, the Targeted Tuning looks for a specific process or end-use energy efficiency upgrades. A proactive approach to energy savings can be achieved through Monitoring-Based Commissioning. Monitor-Based Commissioning is similar to the Whole Building and Process Tuning approach; however this pathway assumes that identified measures will be implemented and that customer will be committed to energy monitoring and on-going energy tracking for a minimum of three years. Through the Monitor-Based Commissioning pathway, the customer installs a software package linked to the Building Management System. Monitor-Based Commissioning software uses AI and advanced analytics to constantly monitor the system and determine when a set point or system has breached an upper or lower control limit. The system identifies areas of improvement over time and alerts facilities personnel to faults in the system. The incentive for Monitor-Based Commissioning is \$0.17/kWh and \$1.20/therm on a pay-for-performance basis.</p> <p>Whole Building & Process Tuning: The Whole Building and Process Tuning offers a comprehensive, full building or process approach to retro-commissioning for customer's with a functional control system in place and electric usage greater than 5,000,000 kWh annually. Manufacturing or industrial customer can also use this pathway to apply a comprehensive tuning approach for their systems. Typically, the customers facility staff is involved in the Whole Building and Process Tuning given the broader scope and longer timeline associated with the installation and commissioning. Up to \$30,000</p>
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	<p>can be provided for the tuning investigation to determine energy conservation measures under this pathway. The implementation incentives are provided on a \$0.17/kWh and \$1.20/therm saved basis for approved energy savings. An additional performance incentive of \$0.03 per kWh and \$0.20 per therm is available to customers that reduce at least 2.75% of the facilities annual electric consumption and 1.5% of the facilities annual gas consumption.</p>
Implementation and Delivery	<p>A customer begins the process for ESPO by contacting their National Grid Sales representative. In advance of undertaking an ESPO project, as with all custom projects, account and technical representatives will work closely with the customer and their implementers to identify the appropriate pathway.</p> <p>If needed, a retro-commissioning consultant will be brought in to provide an investigative report, the results of which are shared with the customer. The ESPO process may also identify additional capital projects that increase energy savings and can secure additional incentives.</p> <p>The Company may also facilitate the transfer of information from the controls vendor to third party retro-commissioning vendors or technical assistance vendors with expertise in building controls. The Rhode Island Products and Growth team continues to work with our Massachusetts counterparts to encourage development of workforce expertise in this area.</p>
Customer/Vendor Feedback	<p>The Company will work with ESPO customers and vendors to solicit feedback on participation barriers, program enhancements, and incremental modifications. The feedback will be reviewed by the Company and improvements based on customer input will be developed and implemented during the spring and summer of 2021.</p>
Changes for 2021	<p>In 2021, the ESPO initiative will include heat exchanger coil cleaning to the prescriptive low-cost tune-up measures.</p>
Rationale for Changes	<p>The Company aims to increase participation in the ESPO program in 2021. The heat exchanger coil cleaning provides a relatively quick payback period that should result in greater participation and increased program awareness.</p>
Notes	<p>The ESPO initiative includes a number of technologies and end-uses identified in the Market Potential Study, including boilers (steam and</p>

	hot water), waste energy recovery, refrigeration, scheduling and set point optimization, energy management systems, and rooftop units.
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4.8. Lighting Designer Incentives (LDI)

Eligibility Criteria	<p>LDI is offered to lighting design teams for qualifying New Construction/Major Renovations or Existing Buildings Performance Lighting projects.</p> <p>National Grid maintains a list of qualified Lighting Designers, as well as Engineers and Architects who have demonstrated at least 5 years of lighting design experience. National Grid markets the program to the construction and design community. Lighting designers cannot sell product for the project that they are receiving LDI.</p> <p>Lighting designer must have at least one of the following qualifications:</p> <ul style="list-style-type: none"> • Lighting Certified (LC) – granted to those who successfully complete the NCQLP (National Council on Qualifications for the Lighting Professions) Lighting Certification Examination; • CLEP – certification from the Association of Energy Engineers (AEE); • IALD – International Association of Lighting Designers Professional Membership status; or • CLD – the IALD sponsored Certified Lighting Designer, certification.
Offerings	<p>This incentive goes directly to the lighting design team to fund their efforts to achieve lighting energy savings while maintaining quality lighting design.</p> <p>LDI is a sum equal to 20% of the customer lighting incentive offered for a project, up to a maximum of \$15,000 per project that goes directly to the lighting designer.</p>
Implementation and Delivery	<p>Lighting designer submits LDI application for a project</p> <p>LDI will be paid in two installments: National Grid will pay 50% upon pre-approval of the customer application, and 50% upon confirmation of installation, at the same time the National Grid makes the customer incentive payment. National Grid will make the payment to the lighting design team lead. The lighting design lead may choose to split the incentive with additional parties.</p>

	For the first LDI installment, the lighting design team shall submit the Lighting Designer Incentive Worksheet and an invoice in the amount of 50% of the total anticipated LDI. The invoice should reference the project name. For the second LDI installment, the lighting design team shall submit a second invoice, again referencing project name.
Customer Feedback	LDI needs marketing to the customer to inform them about the benefits of hiring a lighting designer.
Changes for 2021	The Company will create a one-page document that articulates the benefits of hiring a lighting designer that can mailed or emailed to potential new construction or major retrofit customers.
Rationales for Changes	The Company believes that customers are more likely to participate when benefits are clearly articulated.
Notes	

4.9. Customer Owned Streetlight Equipment

Eligibility criteria	The customer owned LED streetlighting initiative is available to any city or town in Rhode Island serviced by National Grid for electric service on the Customer Owned Equipment S-05 tariff (Rate S-05), 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.
Offerings	Incentives of \$0.15 per kWh of first-year savings for qualifying LEDs and \$0.25 per kWh of first-year savings for qualifying controls associated with either the dimming or part-night run hours as set forth in the streetlighting tariff.
Implementation and Delivery	A customer begins the process for purchasing their leased streetlights from National Grid by contacting their National Grid Community & Customer Manager. A suggested first step would be to indicate they are interested in getting an inventory of the streetlights and an estimated purchase price. This inventory is a non-binding opportunity for the customer to begin the decision-making process. If the customer opts to pursue the purchase of the streetlight assets, a notice to purchase is submitted to the Company and to the PUC as required by the legislation. A final value of the assets is calculated, and sale agreements are executed. Once the closing process is complete, the ownership of the assets is transferred from National Grid to the customer. Once the

	customer owns the streetlights, they can replace the older technology with LED lighting and controls. The municipal energy efficiency sales representative from National Grid will assist the customer in determining the energy savings and amount of incentive they can expect once the process is completed. The customer fills out an application form and once the lights have been installed, contacts National Grid for a post inspection. Once the post inspection is satisfactorily completed, the incentive can be mailed to the customer. Notification to the Community & Customer Manager with the completed location listing of the LED conversions is required for the billing system updates to realize any energy consumption savings.
Changes for 2021	No changes are anticipated for 2021.
Rationale for Changes	N/A
Notes	In addition to the incentives provided by the systems benefit charge mentioned above, OER provides grant funding to communities for LED street lighting. There is a \$300,000 cap on the funding to individual cities and towns from OER.

4.10. Company Owned Street Light Equipment

Eligibility Criteria	Eligibility for the incentive for company owned LED streetlighting is dependent on service on the 3 unmetered streetlight tariffs, S-06, S-10 and S-14 with exchange of an existing roadway or post-top style, Incandescent, Mercury Vapor or High Pressure Sodium Vapor sourced luminaire to one of the Company's LED offerings. The tariffs allow LED street or post-top fixtures to be available to all customer groups.
Offerings	Incentives of \$0.15 per kWh of first-year savings for qualifying LEDs are available. All company owned street and area lights are operating at a dusk-to-dawn schedule.
Implementation and Delivery	The customer contacts their Community and Customer Manager with their interest. The Company returns a billing inventory and estimated cost savings analysis for the customer to review. If the customer opts to move ahead with the lighting exchanges, a letter of intent is sent to the Community and Customer Manager. Accompanying the letter should be the billing inventory with the customer's LED options by location indicated. The Company will issue the replacement orders

	<p>and install the lights. The energy efficiency sales representative will contact the customer and assist in the incentive application and payment process.</p> <p>About one hundred LED streetlights have been installed to date. Of the 21 towns mentioned above under customer owned, 4 of them are also considering the Company Owned option.</p>
Changes for 2021	No changes are anticipated for 2021.
Rationale for Changes	N/A
Notes	<p>Currently, no energy efficiency incentive is available for the Company-owned controls option as the Company does not offer adjustable controls for billing other schedules such as part-night or dimming. A majority of street lighting customers in Rhode Island have either purchased their own street lights or indicated a preference for purchasing their street lights. Therefore, the volume of company-owned street lighting is on the decline. As a result, the number of company-owned street lights that would be eligible for controls if controls were made available is a small number. Additionally, the controls associated with street lighting represents only a small piece of a Company-wide Advanced Metering Infrastructure (AMI) system which would be designed to handle the core business of electric and gas metering. Although the Company is keeping a watchful eye on advancing technologies, the capital investment on the system will be prompted by other customers.</p> <p>However, the Company has a demonstration project in Schenectady NY to evaluate street lighting controls and their viability. Before networked lighting control advances at National Grid, decisions need to be made regarding selection of the control, the network provider, as well as integration into the current and/or future billing system.</p> <p>Like a multifamily building or leased commercial space where the tenant pays the electric bill, as long as the landlord (in this case, National Grid) approves the replacement, the customer leasing the street light will receive the energy efficiency incentive directly.</p>

Table 3 below reflects some of the similarities and differences between the two ownership options available to customers for solid state street lighting.

Table 3. Customer- Versus Company-Owned Street Lighting

Distinction	Customer-Owned	Company-Owned
LED Fixture	Customer owns the equipment and is responsible for the purchase, financing, and maintenance	National Grid owns, installs, and maintains the equipment. The customer requests the exchange of existing or installation of new lighting
Energy Efficiency Incentive	Customer receives a one-time incentive payment for the installation of LED equipment (after satisfactory post-inspection by National Grid)	Customer receives a one-time incentive payment for the installation of LED equipment (after satisfactory post-inspection by National Grid.)
Purchase/Lease	Customer purchases the equipment	National Grid leases the equipment to the customer
Outreach	League of Cities and Towns, Annual Department of Public Works (DPW) meeting with Company, and various other meetings	League of Cities and Towns, Annual DPW meeting with Company, and various other meetings
Technical Support	Customer is responsible	Customer is responsible

4.11. Commercial Real Estate and Offices

Eligibility Criteria	Commercial Office Spaces
Offerings	It is unknown how COVID-19 will change this market. Due to this uncertainty, the Company is pausing the development of a commercial real estate initiative. However, a National Grid salesperson will continue to cover this market and monitor conditions in this segment.
Implementation and Delivery	<p>The Commercial Real Estate (CRE) sector has specific challenges and barriers linked to the split incentive between building owners and tenants, and difficulty accessing decision makers. The Company serves this customer segment with specific services to engage customers, like benchmarking and finance tools, as well as specific incentives tied to office performance-based design approach that benefits both building owners and tenants.</p> <p>Benchmarking</p> <p>The Company provides automated benchmarking services for commercial office spaces that allows building owners to be aware of</p>

	<p>their buildings energy use and compare it with that of its peers. After a facility has been benchmarked, National Grid has various resources to help its owners achieve lower energy consumption per square foot.</p> <p>Commercial Property Assessed Clean Energy (C-PACE)</p> <p>C-PACE is an ideal tool for some commercial real estate owners and developers. It allows them to finance energy and related improvements in a way that is widely considered “off book” and can be passed through to renters in many types of leases. To advance the use of this unique mechanism National Grid works with the Rhode Island Infrastructure Bank (RIIB) and Sustainable Real Estate Solutions (SRS) to bring awareness to commercial building owners.</p> <p>The Company will ensure that both tenants and landlords statewide are aware of the wide variety of resources available to them through the Green Lease Leaders program, including one on one coaching, from the Institute of Market Transformation (IMT). Marketing pieces and “leave behinds” will be created for National Grid commercial sales professionals, landlords, and vendors. The Company will also work with IMT to host a “green lease” information session.</p> <p>The Company will continue to refine its automated benchmarking capabilities in 2021. National Grid will work with partners such as the City of Providence, Chambers of Commerce, and other entities to ensure that customers are aware of this tool as well as its benefits.</p>
Customer Feedback	The Company has heard from long term tenants who would like to make EE improvements, but cannot do so in a way that is favorable to them due to lease terms.
Changes for 2021	It is unknown how COVID-19 will change this market. Due to this uncertainty, the Company is pausing the development of a commercial real estate initiative. However, a National Grid salesperson will continue to cover this market and monitor conditions in this segment.
Rationale for Changes	Market uncertainty due to COVID-19.
Notes	

4.12. Extended Care Facilities (Nursing Homes/Assisted Living)

Eligibility Criteria	The extended care market sector includes nursing homes, assisted living facilities, and rehabilitation facilities.
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Offerings	Offering for this Initiative include lighting, HVAC improvements (including heat pumps), envelope improvements, energy management systems, energy efficient laundry systems, and Combined Heat and Power (CHP). Commercial Property Assessed Clean Energy (C-PACE) can be used as a financing tool. C –PACE, further defined in section 8.6, allows customers access to low cost private capital for terms that greatly exceed most conventional business loans. It also allows the customer to capitalize all costs related to the project. This means that the Company now has a potential solution to one of the barriers to moving forward with deeper and broader efficiency measures in this segment.
Implementation and Delivery	Interested customers contact the sales representative who handles energy efficiency sales for medium sized businesses.
Customer Feedback	The vast majority of these facilities either did not have the resources or did not want to prioritize the resources to investigate energy efficiency opportunities, even with a generous cost share, let alone act on them. Consequently, this market segment presents challenges to participate in comprehensive energy efficiency.
Changes for 2021	As the majority of these facilities are small businesses, the Company will work with the small business vendor and current salesperson to refine the initiative approach in 2021.
Rationale for Changes	See customer feedback above.
Notes	

4.13. Farm/Agriculture

Eligibility Criteria	The Farm and Agricultural Initiative is available to any farm or agricultural National Grid customers within the state of Rhode Island regardless of energy source including delivered fuels. National Grid will cover electric and natural gas energy efficiency incentives in accordance with the customer’s eligibility and the program criteria. These energy conservation measures will be installed with prior approval of landlord, where appropriate.
Offerings	Lighting, HVAC improvements (including heat pumps), envelope improvements (weatherization, air sealing, insulation), equipment upgrades including refrigeration, pumps and motors, and ventilation.

	<p>Now Commercial Property Assessed Clean Energy (C-PACE) can be used as a financing tool. C –PACE, further defined in the “Affordability and Financing” section below, allows customers in participating communities to access low-cost private capital for terms that greatly exceed most conventional business loans. It also allows the customer to capitalize all costs related to the project. The Company recognizes that financial assistance can help small businesses, including agricultural ones, to move forward with energy efficiency projects and is committed to helping them access affordable options. In addition, farmers may be eligible to participate in the Rhode Island Agricultural Energy Program grant.³</p>
Implementation and Delivery	<p>National Grid engages with customers through targeted outreach, while also providing additional information via the Office of Energy Resources website.⁴ By way of this initiative, participating customers will receive a no-cost, no-obligation energy audit in which a qualified vendor will visit the farm, perform an energy audit and provide the customer with a written list of recommended measures tailored to the customer’s situation, including equipment focused on agriculture.</p> <p>As of February 2020, twenty-six customers have either received or are pending an energy audits , with twenty-five of those customers having installed energy conservation measures.</p>
Customer Feedback	<p>Incentives have been critical to get customers to move forward with energy efficiency measures. The process took a long time from audit to installation. Customer awareness could be improved.</p> <p>Feedback indicates customers lack awareness as to what qualifies for energy conservation measure incentives. However, those who have utilized incentives have seen significant savings and benefits to their operations.</p>
Changes for 2021	<p>In 2021, the Company will explore simplifying the initiative for customers with multiple meter types, including a mix of residential and commercial accounts.</p>
Rationale for Changes	<p>The agriculture segment of the market has not embraced participation at the same levels as others. Therefore, the Company is working to</p>

³ <http://www.rifarmenergy.org/ri-ag-ep.htm>

⁴ <http://www.energy.ri.gov/policies-programs/programs-incentives/feep.php>

	simplify participation for customers while continuing targeted outreach and leveraging online resources to increase participation. Increasing participation will ensure equitable access to programs and incentives, which is a goal for both the Company and stakeholders.
Notes	

4.14. Combined Heat and Power Initiative

Eligibility Criteria	<p>To qualify for a Combined Heat and Power (CHP) energy efficiency incentive, a proposed project, no matter the size, must meet the following conditions:</p> <ul style="list-style-type: none"> • Host customers must be in the franchise service area of the Company. • Proposed systems must either be (i) thermal leading and sized so the recoverable heat can be used to offset other facility thermal loads and generate electricity as a by-product, (ii) using waste energy or waste heat to generate electricity, or (iii) electric load following and meeting a total system efficiency greater than 55%. • Both new construction and retrofit installations are eligible; in either case, the baseline system must be documented. • The overall minimum total system efficiency of the proposed CHP units must be 55% or greater.⁵ System efficiency is calculated as Annual Useful Energy/Annual Natural Gas Input where <p style="text-align: center;"><i>Annual useful energy = Net Annual kWh*3,413/100,000 + utilized thermal output (therms)</i></p> <p style="text-align: center;"><i>Annual natural gas input = CHP gas input in therms (HHV)</i></p> • The equipment to generate electricity may be an internal combustion engine, gas turbine engine, steam turbine, or back pressure turbine and the facility will capture waste heat for use in the facility.
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⁵ The RI DEM's Air Quality Regulations (http://www.dem.ri.gov/pubs/regs/regs/air/air43_12.pdf; Page 11) set a minimum system design efficiency of 55% for CHP to be eligible to apply for Emission Credits. As noted in the incentive levels section below, a higher energy efficiency incentive is available for systems with efficiencies of 60% or greater.

	<ul style="list-style-type: none"> Any size wasted energy systems and back pressure or extraction turbines can qualify. While it is expected that most of these applications will be retrofit, both new construction and retrofit installations are eligible; in either case, the baseline system must be carefully documented. The project must pass cost effectiveness screening. <p>These systems are designed to take advantage of existing on-site wasted energy, rejected heat, opportunity fuels, renewable natural gas or inefficient processes. Therefore, there is no minimum total system efficiency requirement.</p>						
Offerings	<p>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. An additional incentive tier will be available to CHP projects where the host customer also commits to implementing energy efficiency measures representing at least five percent of the site energy use or the maximum load reduction identified in the Technical Assistance Study, whichever is less.⁶ A customer may be treated as having made this commitment to energy efficiency if they have made investments to achieve similar load reductions through energy efficiency within the previous five years. Please use the table below to determine the non-variable incentive levels available for CHP project.</p> <p><i>Table 4. Determination of Non-Variable Incentive Level for CHP Projects</i></p> <table border="1" data-bbox="516 1360 1352 1696"> <tr> <td>Wasted energy, back pressure turbines, and extraction turbines</td> <td>\$900 per net kW</td> </tr> <tr> <td>CHP with total system efficiency $\geq 55\%$ - $< 60\%$</td> <td>\$900 per net kW</td> </tr> <tr> <td>CHP with total system efficiency $\geq 55\%$ - $< 60\%$ with customer implementing energy</td> <td>\$1,125 per net kW</td> </tr> </table>	Wasted energy, back pressure turbines, and extraction turbines	\$900 per net kW	CHP with total system efficiency $\geq 55\%$ - $< 60\%$	\$900 per net kW	CHP with total system efficiency $\geq 55\%$ - $< 60\%$ with customer implementing energy	\$1,125 per net kW
Wasted energy, back pressure turbines, and extraction turbines	\$900 per net kW						
CHP with total system efficiency $\geq 55\%$ - $< 60\%$	\$900 per net kW						
CHP with total system efficiency $\geq 55\%$ - $< 60\%$ with customer implementing energy	\$1,125 per net kW						

⁶ If CHP facility sizing is determined by electric load (or not constrained by either electric or thermal load), the requirement will be 5% of electric usage; if the facility sizing is determined by thermal load, the requirement will be 5% of thermal energy usage. The energy efficiency measures will themselves be eligible for incentives, and are not part of the CHP incentive package cap described.

efficiency measure equal to 5% of site energy or maximum load reduction	
CHP that utilized between 25% -49% opportunity fuels, renewable natural gas, or biogas as a fuel source	\$1,225 per net kW
CHP with total system efficiency $\geq 60\%$	\$1000 per net kW
CHP that utilizes opportunity fuels, renewable natural gas, or biogas as the primary fuel source	\$1,250 per net kW
CHP with total system efficiency $\geq 60\%$ with customer implementing energy efficiency measure equal to 5% of site energy or maximum load reduction	\$1,250 per net kW

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

	<p>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.</p> <p>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.</p> <p>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.</p>
<p>Implementation and Delivery</p>	<p>Identification and Recruitment of Qualified CHP Projects</p> <p>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.</p> <p>Targeted Outreach and Support for Potential CHP Customers</p> <p>The Company believes that significant savings can be generated with this technology in the coming years. The Company is focused on developing a pipeline of projects for small, medium and large customers. The Company has a CHP program manager who helps customers navigate the technical and procedural aspects of bringing a CHP unit online. The Company also works with TA vendors that</p>

	<p>provides 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. Furthermore, in 2016, the Company introduced a CHP manual (http://ngrid.com/ri-chp) to assist customers who are deciding if CHP is an option for their facilities. 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 or not the management of the system will be outsourced, and providing easier customer access to CHP unit performance data.</p> <p>Installation of Incremental or Additional Energy Efficiency Measures for Customers who have Previously Installed CHP</p> <p>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.</p> <p>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.</p> <p>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</p>
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	<p>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</p> <p>Scoping Study/Qualification</p> <p>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:</p> <ul style="list-style-type: none">• 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 <p>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.</p> <p>Technical Assistance Study</p> <p>Assuming a favorable screening during preliminary scoping, National Grid 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. National Grid 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</p>
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	<p>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 80% below the 1990 levels, by 2050. (On-peak kW reduction = Net Output x Availability x % Loaded.) This kW load reduction should be used in the benefit-cost screening.</p> <p>As indicated in the offering section, a larger incentive is available for CHP projects that include the implementation of energy efficiency measures at the host facility. If the customer wants to meet a higher tiered incentive and did not previously qualify for that higher tier, the company could include another review. This review would propose measures to fulfill that requirement with new energy efficiency opportunities. 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.</p> <p>Cost Effectiveness</p> <p>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.</p>
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	<p>Other Contract Terms and Guidelines</p> <p>In order to ensure proper operation of the CHP facility and persistence of energy savings, the following terms and guidelines will be required:</p> <ul style="list-style-type: none">• 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.• The customer must apply for interconnection service as soon as practical and 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. <p>Qualification</p> <p>The cost of the project will be provided by a design/build or general contractor experienced with CHP projects and revised as necessary.</p> <p>Options for a CHP proposal that fails cost effectiveness testing</p> <p>If a CHP project does not pass the benefit-cost test, the Company will work with the customer to develop other solutions that may still support the CHP facility. Such other solutions may include one or all of the following:</p>
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	<ul style="list-style-type: none">• Re-analyzing the optimal size of the CHP unit, or the number of generators. A different sized CHP unit might provide better efficiencies and pass the benefit cost test.• Identifying other load reduction opportunities at the facility. Benefits can be garnered from load reduction in lieu of achieving that load reduction through CHP. <p>Attribution of CHP Energy Savings to the Company</p> <p>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 35 kW, 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.</p> <p>Notification Process</p> <p>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:</p> <ul style="list-style-type: none">• 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:<ul style="list-style-type: none">• 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;• Documentation from the customer on all relevant leases, agreements or commitments related to the CHP system or incentive offer;• Estimated project budget.• 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
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	<ul style="list-style-type: none">• 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. <p>For any proposed CHP project greater than one MW:</p> <ul style="list-style-type: none">• The Company will submit a project description to the Division, providing all the pertinent details relating to the project.• 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.• 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.• 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.• To the extent that additional review time is required, the Division will provide notification to the Company.• 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. <p>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.</p>
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Customer/ Vendor Feedback	<p>Vendors and customers provided feedback in advance of the 2020 Rhode Island Annual CHP Public Meeting. The vendors and customer noted that the incentive levels and interconnection remain the most significant barriers to CHP adoption. Customers and vendors also remarked on the financial and interconnection challenges associated with smaller CHP systems.</p> <p>The Company is currently exploring options for a prescriptive pathway for micro-CHP systems. This process would simplify the interconnection process and expedite the installation time for smaller CHP systems.</p>													
Participation and Savings	<p>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. For 2020, the Company achieved 630kW of installed capacity, corresponding to approximately 4,089 MWh of savings. As of August 2020, the Company has knowledge of the following, estimated pipeline of CHP projects in Rhode Island (see Table 5) that have initiated a Technical Assistance Study and are expected to leverage energy efficiency incentives. The Company commits to updating this pipeline table in each annual Energy Efficiency Plan and reconciliation filing to the PUC going forward. 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.</p> <p><i>Table 5. Pipeline of RI CHP Projects with TA Study Initiated</i></p> <table border="1" data-bbox="505 1476 1382 1881"> <tr> <td colspan="2">Customer Name or Company Name*</td> <td>N/A</td> </tr> <tr> <td colspan="2">Approximate Size of CHP (kW and Annual MWh)</td> <td>600 kW 2,736 Annual MWh</td> </tr> <tr> <td rowspan="3">Location Information</td> <td>Feeder</td> <td>53-126W42</td> </tr> <tr> <td>Substation</td> <td>Washington Substation</td> </tr> <tr> <td>Gas Line ID</td> <td>153-Providence, RI</td> </tr> </table>	Customer Name or Company Name*		N/A	Approximate Size of CHP (kW and Annual MWh)		600 kW 2,736 Annual MWh	Location Information	Feeder	53-126W42	Substation	Washington Substation	Gas Line ID	153-Providence, RI
Customer Name or Company Name*		N/A												
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	Substation	Washington Substation												
	Gas Line ID	153-Providence, RI												

	<p>Current Status (Scoping, Study, Under Construction, Post-Inspection or Commissioning)</p> <p>Estimated Year(s) in which the Company will claim energy savings</p>	<p>Technical Assistance Study</p> <p>2021 and 2022</p>
	<p>*Customers and/or Companies may opt-out of disclosing their names in this table. If a customer or company has opted-out their names have been redacted in the table above. The Company will provide a confidential pipeline table without redacted names to the PUC, DPUC, and/or OER, if requested.</p>	
Changes for 2021	<p>The Company will provide an additional incentive tier to CHP systems that leverage biogas as a fuel source. The Company will also add an Optimal Operation and Maintenance Incentive for CHP systems that utilize biogas as a fuel source.</p>	
Rationale for Changes	<p>The proposed changes to the 2021 CHP Initiative are intended to reduce the additional economic barriers associated with the installation and operation and maintenance of biogas CHP systems.</p>	
Notes	<p>The Company has established working groups to research and assess the barriers and opportunities for CHP at waste water treatment facilities and data centers.</p>	

4.15. Products Offered Through “Upstream”

When the Company refers to an “Upstream” initiative it is referring to the practice of offering an incentive directly to a manufacturer or distributor (mainly distributors in Company initiatives) of efficient equipment instead of offering an incentive to the customer through an application form after the sales transaction has been made. This allows them to sell the product for less and make it more appealing to a potential customer. It also allows the customer to acquire this more efficient equipment without the burden of paperwork and waiting for reimbursement. It is also often a more cost-efficient way to deliver savings to the program.

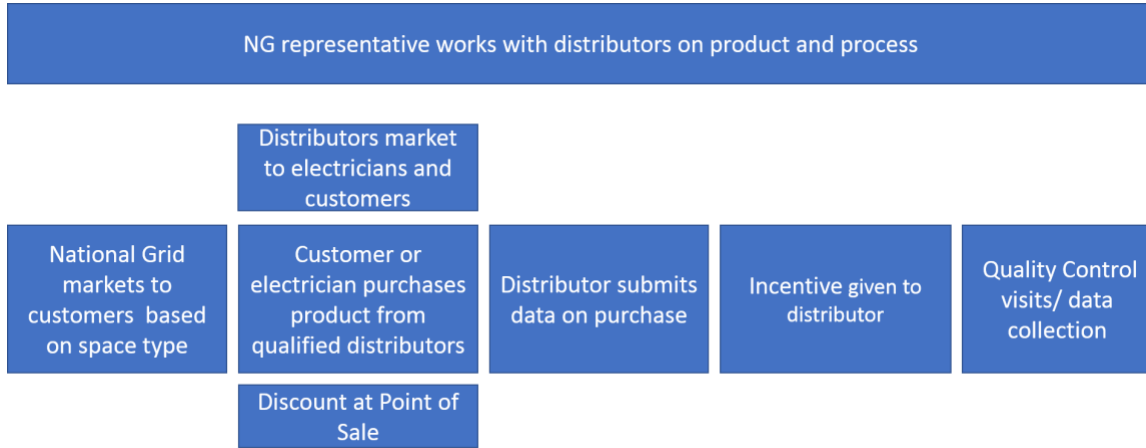
4.15.1.Upstream Lighting

Eligibility Criteria	The Upstream Lighting initiative is available to all commercial customers.
Offerings	Discounted luminaires, luminaires with controls, lamps, and controls at the point of sale at qualified distributors.

Initiatives Specific to Large Commercial Retrofit Program

Implementation and Delivery	National Grid targets marketing to relevant customers and works in collaboration with qualified distributors, who also conduct marketing. Distributors sell products directly to consumers or relevant intermediaries (e.g. electricians) 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. See Figure 7 for more detail.
Customer Feedback	The Company’s sales team and program managers regularly talk with lighting wholesalers who have direct contact with the customers who purchase equipment and are best positioned to relay customer expectations and feedback. Feedback from these wholesalers is often as important to program success and design as direct end-customer feedback because they strongly influence customer lighting choices.
Changes for 2021	2021 will feature increased incentive support for Luminaire Level Lighting Controls (LLCs) . The Company will increase marketing of all lighting products to small businesses who consume less than 20,000 kWh per year.
Rationale for Changes	Market transformation, increased savings, drive more participation among ultra-small small business
Notes	The Company will continue to investigate ways to increase stocking of luminaires with controls. Information will be collected through the Upstream vendor as well as two anonymous surveys developed by National Grid staff as well as the appropriate members of the EERMC Consultant team.

Figure 7. Implementation and Delivery Process for Upstream Lighting



4.15.2. Upstream HVAC

Eligibility Criteria	The Upstream HVAC initiative is available to all commercial customers.
Offerings	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 pump systems, variable refrigerant flow systems, as well as dual enthalpy economizer controls and electronically commutated motor (ECM) circulator pumps for hydronic heating or service hot water applications.
Implementation and Delivery	All upstream products follow a similar implementation and delivery process shown in Figure 7. National Grid targets marketing to relevant customers and works in collaboration with qualified distributors, who also conduct marketing. Distributors sell products directly to consumers or relevant intermediaries (e.g. electricians) 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.
Customer Feedback	The Company’s sales team and program managers regularly talk with partnering distributors who have direct contact with the plumbing, HVAC and heating contractors, and occasionally end customers who purchase equipment. Distributors provide feedback from these key distribution chain players. Plumbing, HVAC and heating contractors have direct contact with customers and are best positioned to relay customer expectations and feedback. Feedback from these

	contractors is often as important to program success and design as direct end-customer feedback because contractors strongly influence customer equipment choices.
Changes for 2021	Centrally Ducted Heat Pumps <5.4 tons (Ductless Mini or Multi Split Air Source) will move to the downstream pathway to align with the Massachusetts PA's.
Rationale for Changes	Alignment with Massachusetts program.
Notes	The savings of the upstream HVAC products will be calculated from new construction baselines, not retrofit.

4.15.3. Upstream Gas

Eligibility Criteria	The Upstream HVAC initiative is available to all commercial customers.
Offerings	Discounted premium efficiency water heating equipment at the point of sale at qualified distributors. The 2021 offering will include water heaters (indirect and on-demand), water heating boilers, and condominium water heaters.
Implementation and Delivery	All upstream products follow a similar implementation and delivery process shown in Figure 7. National Grid targets marketing to relevant customers and works in collaboration with qualified distributors, who also conduct marketing. Distributors sell products directly to consumers or relevant intermediaries (e.g. electricians) 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.
Customer Feedback	The Company's sales team and program managers regularly talk with partnering distributors who have direct contact with the plumbing, HVAC and heating contractors, and occasionally end customers who purchase equipment. Distributors provide feedback from these key distribution chain players. Plumbing, HVAC and heating contractors have direct contact with customers and are best positioned to relay customer expectations and feedback. Feedback from these contractors is often as important to program success and design as direct end-customer feedback because contractors strongly influence customer equipment choices.

Changes for 2021	No changes are anticipated for 2021.
Rationale for Changes	N/A
Notes	

4.15.4. Upstream Kitchen Equipment (Electric and Gas)

Eligibility Criteria	The Upstream Kitchen Equipment initiative is available to all commercial customers.
Offerings	Discounted premium efficiency electric and gas kitchen equipment at the point of sale at qualified distributors. National Grid currently offers more than 9 different types of energy efficient cooking equipment across both fuels.
Implementation and Delivery	All upstream products follow a similar implementation and delivery process shown in Figure 7. National Grid targets marketing to relevant customers and works in collaboration with qualified distributors, who also conduct marketing. Distributors sell products directly to consumers or relevant intermediaries (e.g. electricians) 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.
Customer Feedback	<p>The Company’s sales team and program managers regularly talk with kitchen equipment wholesalers who have direct contact with the customers who purchase equipment and are best positioned to relay customer expectations and feedback. Feedback from these wholesalers is often as important to program success and design as direct end-customer feedback because they strongly influence customer equipment choices.</p> <p>Anecdotal feedback indicates the program is easy to participate in and wholesalers are enthusiastic about how the program both saves customers money and generates additional sales/profit for them. More than one wholesaler reported that the increased incentives offered by the Company during the COVID-19 pandemic helped them help their customers during this difficult time and was an important mechanism to incentivize customer spending and generate equipment sales. As one wholesaler recounted, “I am beyond grateful for the increased incentives that were offered towards the later part of this COVID mess. It was one of the only saving graces we had to try and convince customers to start</p>

	<p>spending money they didn't have with all the restrictions the Governor placed on operating their restaurants and bars. I truly hope this program is continued. We have had great success with it.” In a recent survey, some wholesalers reported that COVID-19 had not impacted their ability to make high-efficiency sales or resulted in a change to the types of customers they make sales to.</p>
Changes for 2021	No changes are anticipated for 2021.
Rationale for Changes	N/A
Notes	

4.16. Telecommunications Initiative

Eligibility Criteria	This initiative is designed to serve mobile, fiber optic, and cable data companies and their associated infrastructure.
Offerings	Technical assistance, project management, and incentives
Implementation and Delivery	The Company is still in discussions with the vendor on exactly how the initiative will be delivered. Based on current deployments by this vendor in other locations it will closely resemble the Energy Smart Grocer Program.
Customer Feedback	Not applicable as this is a new initiative.
Changes for 2021	Not applicable as this is a new initiative.
Rationale for Changes	Potential for increased savings predominately from non-lighting as highlighted in the Market Potential Study. Additionally, the Company believes that this is an equitable use of ratepayer funds as this market has not been served in previous years.
Notes	

5. Small Business Direct Install Program

Eligibility Criteria	<p>Commercial customers who have less than 1,000,000 kWh in annual usage may participate in the Small Business Direct Install Program. K-12 schools, national and regional chain restaurants, and small grocery stores who consume less than 1,000,000 kWh per year are excluded from this program as they are served through other pathways or initiatives.</p>
Offerings	<p>The Small Business Program begins with a no-cost site assessment conducted by a Small Business Energy Specialist to understand the customer’s energy-related needs and goals. The assessment keys in on energy efficiency measures such as lighting systems and controls, cooler/refrigeration control, water saving measures, HVAC controls, motor controls, weatherization/insulation, and custom measures. Turn-key install and OBR is offered to support the adoption of the recommended measures to the customer.</p> <p>A Customer Directed Option (CDO) is also available. In this pathway, customers are able to use their own electrician to install measures while the Small Business program vendor processes and submits all necessary paperwork to National Grid.</p>
Implementation and Delivery	<p>A customer begins the process for a Small Business energy assessment by either calling, emailing, or using an online form to express interest in the program. The customer is connected to a dedicated, internal Small Business program staff to learn more details about the process and the next steps. The assessment is scheduled with the customer, and the Energy Specialist meets the customer at the scheduled time. The Energy Specialist performs the assessment, identifies strategies to pursue opportunities, reviews design considerations with the customer, and incorporates this detail into a proposal describing appropriate energy efficiency measures. The proposal reflects the installed costs, the expected energy savings, and the applicable program incentives.</p> <p>Once the customer decides to proceed, the Energy Specialist hands off the project to a Project Coordinator who works with the customer to set a convenient installation schedule that will not interrupt their business. After installation, a certificate of install is signed off on by the customer indicating their satisfaction with the work provided. There is dedicated support staff to address any post-install</p>

	issues that may arise. This support structure is designed to smoothly execute projects and allow the customers to remain focused on their daily tasks.
Customer/Vendor Feedback	<p>The Company’s vendor regularly collects insights and feedback from customers. National Grid’s sales team and program managers regularly check in with vendors to capture this feedback</p> <p>Outgoing direct mail and phone outreach have increased in volume and the program vendor is employing more direct canvassing from its field staff to meet its yearly goals. Consequently, the cost of acquiring a customer is increasing.</p>
Changes for 2021	<p>In 2021, there will be increased focus on non-lighting opportunities, such as hood controls and other HVAC controls.</p> <p>The program will save energy and prepare customers for the future by substantially increasing the amount of gas weatherization provided to small businesses.</p> <p>The program will work to achieve its goal of 30% percent of installed luminaires and retrofit kits with integrated controls. In previous years, lighting controls have represented approximately two-to-three percent of the program’s electric savings.</p> <p>Frequently, very small businesses (under 25,000 kWh consumed per year) do not need an energy audit to realize that they can make energy improvements to their spaces. To that end, in 2021 National Grid will run segmented marketing campaigns directed at these customers and local electricians to market the various Upstream energy efficiency products that can be purchased at a discount to decrease energy.</p>
Rationale for Changes	Capture more non-lighting savings per the Market Potential Study, provide more savings and benefits to SMB customers during a financial downturn, and prepare for the future of heating.
Proposed Upcoming Evaluations	There are no scheduled evaluations, as recently completed evaluations continue to inform the program. A 2017 Impact Evaluation of Small Business Electric Installations was completed in March 2020. The study updated electric non-lighting impact factors for the Small Business initiative. A 2016 study of small business lighting (Rhode Island Commercial and Industrial Small Business Initiative Impact Evaluation) was completed in 2019. At the time of filing, the Company had just completed a 2019 Rhode Island Free-ridership and Spillover (FRSO)

	Study. FRSO is updated for the whole small business program, both electric and gas, as part of this study.
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Small Business Direct Install – Electric Program Goals, Metrics, Budgets, Participation for 2021

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Passive Demand Reduction kW (Electric)	Total Net Lifetime MMBtu (Electric Gas, Oil, Propane)	Budget (\$000)	Participation
Electric	105,134	9,696	1,134	272,100	8,884	545

Small Business Direct Install – Gas Program Goals, Metrics, Budgets, Participation for 2021

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	48,861	4,886	333	183

6. Connected Solutions (Active Demand Response)

Eligibility Criteria	Large Commercial and Industrial customers with interval meters.
Offerings	<p>The Company implemented an active demand reduction program in 2019 based on demonstrations done in 2017 and 2018. Under this program, customers agree to reduce their electric use during the system peak. Customers participating in the demand response (DR) program are free to curtail their energy use by any means possible, as this program is technology agnostic.</p> <p>Targeted Dispatch (<i>One to eight DR events per summer</i>)</p> <p>This option calls on customers to curtail their electricity use or discharge energy from generators only a few times per summer. Typical technologies or strategies used to curtail load include building management systems to control HVAC systems, lighting control systems, and manual or automated changes to manufacturing processes. The customer’s performance is calculated using either the Company’s electric meter where available (typically G-32 customers) or third party metering (typically G-02 customers). Please refer to the program materials available on the Targeted Dispatch page of the Company website for a detailed explanation of the baseline method used and examples.</p> <p>This initiative uses Curtailment Service Providers (CSPs) to assess curtailment opportunities at a facility and deliver curtailment services to enrolled customers. CSPs identify curtailment opportunities for deployment under the Company’s initiative, as well as demand charge and Installed Capacity (ICAP) tag⁷ management opportunities and present a complete curtailment proposal to the customer. The demand charge and ICAP tag management provide opportunities for direct bill savings to customers.</p> <p>Customers and CSPs respond to dispatch signals or criteria specified by the Company. Events are called the day before curtailment is needed. The core model remains focused on reducing demand during summer peak events, typically targeting fewer than twenty hours per summer.</p>

⁷ Installed Capacity Tag is a capacity payment that is set for a customer by using their peak demand during the peak day/hour on the NEPOOL grid

	<p>The program is structured to avoid interfering with the ISO-NE programs or penalizing customers for participating in both programs.</p> <p>This Energy Efficiency Plan is being coordinated with the SRP Plan to ensure that the customer offerings are cohesive, not duplicative, and a comprehensive marketing plan is being implemented. This coordination between SRP, NWAs, and DR is detailed in the 2021-2023 SRP Plan sections on NWAs in System Planning and on Coordination with Energy Efficiency.</p> <p>Daily Dispatch (40 to 60 DR events per summer)</p> <p>This option calls on customers to curtail their energy use or discharge energy many more times per summer than the Targeted Dispatch. Because of the number of dispatches, customers typically look for an automated participation path with a technology that does not disrupt their comfort or business, such as battery or thermal storage.</p>																	
<p>Implementation and Delivery</p>	<p>Targeted Dispatch (One to eight DR events per summer)</p> <p>The estimated performance for Targeted Dispatch is lower than expected given the number of enrollments. Consequently, the Company proposed increasing the goal to 37MW-performed for 2021.</p> <p><i>Table 6. Targeted Dispatch Participation</i></p> <table border="1" data-bbox="488 1186 1375 1478"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">Historic Numbers</th> <th>Estimated Number</th> <th>Proposed Number</th> </tr> <tr> <th>2017</th> <th>2018</th> <th>2019</th> <th>2020</th> <th>2021</th> </tr> </thead> <tbody> <tr> <td>Average MW of Curtailment over all events</td> <td>11</td> <td>27</td> <td>32</td> <td>33 (vs. 35 planned)</td> <td>37 (12% increase)</td> </tr> </tbody> </table> <p>Please refer to the program materials available on the Targeted Dispatch page of the Company website for a detailed explanation of the baseline method used and examples.</p> <p>Customers have the option to receive their incentives directly from the Company, or have the Company send the incentive to the customer’s curtailment service provider. Please see the program materials and the customer application available on the Targeted Dispatch page of the Company website for more details.</p> <p>Daily Dispatch (40 to 60 DR events per summer)</p>		Historic Numbers			Estimated Number	Proposed Number	2017	2018	2019	2020	2021	Average MW of Curtailment over all events	11	27	32	33 (vs. 35 planned)	37 (12% increase)
	Historic Numbers			Estimated Number	Proposed Number													
	2017	2018	2019	2020	2021													
Average MW of Curtailment over all events	11	27	32	33 (vs. 35 planned)	37 (12% increase)													

	<p>The estimated performance for Daily Dispatch is lower than expected given the number of enrollments. Consequently, the Company proposed increasing the goal to 4 MW-performed for 2020.</p> <p><i>Table 7. Daily Dispatch Participation</i></p> <table border="1" data-bbox="488 506 1385 724"> <thead> <tr> <th></th> <th>Historic Numbers</th> <th>Estimated Number</th> <th>Proposed Number</th> </tr> <tr> <th></th> <th>2019</th> <th>2020</th> <th>2021</th> </tr> </thead> <tbody> <tr> <td>Average MW of Curtailment over all events</td> <td>0</td> <td>3 (vs. 0 planned)</td> <td>4 (25% increase)</td> </tr> </tbody> </table> <p>Please refer to the program materials available on the Daily Dispatch page of the Company website for a detailed explanation of the baseline method used and examples.</p> <p>Customers have the option to receive their incentives directly from the Company, or have the Company send the incentive to the customer’s curtailment service provider. Please see the program materials and the customer application available on the Daily Dispatch page of the Company website for more details.</p>		Historic Numbers	Estimated Number	Proposed Number		2019	2020	2021	Average MW of Curtailment over all events	0	3 (vs. 0 planned)	4 (25% increase)
	Historic Numbers	Estimated Number	Proposed Number										
	2019	2020	2021										
Average MW of Curtailment over all events	0	3 (vs. 0 planned)	4 (25% increase)										
Customer Feedback	As many customers did not allowing onsite visits from March through June 2020 due to COVID-19, curtailment plans for the summer 2020 demand response performance season were created based on facility manager interviews rather than on direct customer feedback.												
Changes for 2021	<p>At this time, there are no anticipated program changes related to Targeted or Daily Dispatch for 2021 based on performance projections from currently available data. Ongoing evaluation of summer 2020 performance may generate opportunities to improve the program in 2021, however results are not expected until shortly after the filing of this Plan. The Company will share any proposed program changes resulting from the evaluation with stakeholders prior to implementing changes. The design of the Energy Storage Demand Response Initiative remains consistent with the program design proposed in 2019.</p> <p>Coordination with other Company Energy Storage programs</p> <p>The Company is developing two Energy Storage Initiatives in 2021, as detailed in Docket Nos. 4770/4780 Amended Settlement Agreement:</p> <ul style="list-style-type: none"> • One behind-the-meter (BTM) system co-located with a DCFC site, which will consist of an approximate 250 kW two-hour energy storage system, supporting approximately two to six DCFC ports. 												

	<ul style="list-style-type: none"> One front-of-the-meter (FTM) storage system, which will consist of an approximate 500 kW three-hour energy storage system for the primary purpose of realizing distribution system value, with the exact storage size and capacity to be determined by system need and location. <p>The Docket Nos. 4770/4780 demonstrations primarily focused on testing grid-connected systems to mitigate the load impact associated with EV charging, whereas the Energy Storage Initiative in the 2019 Plan was a storage-enabled DR program focused on incentivizing the use of customer-owned behind-the-meter (BTM) storage to shift peak load at traditional end-use customer facilities. These efforts are separate from the Energy Storage Demand Response Initiatives specifically targeted to facilitating BTM storage to be used for DR.</p> <p>The Company’s intent is to test storage use cases in both FTM and BTM in order to identify all applications that are beneficial to customers and to the grid as a whole. A secondary benefit of testing both categories of storage applications is that it will help spur the development of a robust storage market in Rhode Island, where the contributing parties may differ between large grid connected applications and smaller BTM applications.</p>
Rationale for Changes	<p>The Company’s other efforts related to storage are complementary to the ConnectedSolutions program’s goal of reducing electric use during system peaks. Routine coordination with other Company programs helps leverage opportunities for further savings while minimizing duplication of efforts that could otherwise confuse customers.</p>

ConnectedSolutions – Electric Program Goals, Metrics, Budgets, Participation for 2021

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Active Demand Reduction kW (Electric)	Budget (\$000)	Participation
Electric	0	0	33,600	2990.1	180

7. C&I Multifamily Program

Eligibility Criteria	See Attachment 1, Section 3, for eligibility information. In addition to criteria listed in Attachment 1, Section 3, the multifamily program provides joint residential and commercial energy services to condominiums and apartment complexes for energy efficiency upgrades with no cost audits. The multifamily C&I program also serves customers like non-profits, group homes, and houses of worship that traditionally do not fit within the predefined program structure.
Offerings	See Attachment 1, Section 3, for offerings. In addition to what is listed in Attachment 1, Section 3, the C&I multifamily program specifically offers incentives for master metered gas measures that typically include boiler upgrades, reset controls, and insulation and air sealing. The remaining areas are addressed through residential incentives via a common point of contact such as a property manager or building owner to comprehensively service the facility.
Implementation and Delivery	See Attachment 1, Section 3, for implementation and delivery. In addition to what is listed in Attachment 1, Section 3, note that the program coordinates with the Residential New Construction Program, Multifamily Programs, and the Small Business Program.
Customer Feedback	See Attachment 1, Section 3, for customer feedback.
Changes for 2021	See Attachment 1, Section 3, for program changes.
Rationale for Changes	See Attachment 1, Section 3, for rationale.
Proposed Upcoming Evaluations	See Attachment 1, Section 3, for upcoming evaluations.
Notes	

C&I Multifamily Program – Gas Program Goals, Metrics, Budgets, Participation for 2021

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	141,869	9,444	953	729

8. Finance as an Enabling Strategy

It is well documented that 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.

Mechanisms Offered

National Grid 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.

8.1. On Bill Repayment (OBR) - Electric

Customer type	Commercial customers who consume more than 1,000 MWh per year
Loan size	\$1,000 to ~\$100,000 (may be larger for SEMP’s)
Maximum Tenor	5 years for commercial accounts, 7-10 years for State facilities
Loan Volume	Variable, between \$5MM to \$10MM per year
Benefits to customer	No formal credit check/ rapid approval, on bill repayment, zero interest
Limitations	Maximum tenor too short for many comprehensive upgrades, cannot be used to support upgrades customers may desire such as windows and roofs as they have a B/C ratio less than 1.0.
More information	National Grid’s revolving loan fund projections for 2021 are illustrated in Attachment 5, Table E-10.
Relevant notes	The Company will continue to work with the EERMC consulting team to understand the best combination of investigative and analytic paths to understand and predict demand for OBR.

8.2. On Bill Repayment (OBR) - Electric Small Business

Customer type	Commercial customers who consume less than 1,000 MWh per year
Loan size	\$500 to \$50,000
Maximum Tenor	5 years
Loan Volume	Variable, between \$1.8MM and \$3.0MM per year
Benefits to customer	No formal credit check/ rapid approval, on bill repayment, zero interest
Limitations	Maximum tenor too short for many comprehensive upgrades, cannot be used to support upgrades customers may desire such as windows and roofs as they have a B/C ratio less than 1.0
More information	National Grid's Small Business revolving loan fund projections for 2020 are illustrated in Attachment 5, Table E-10

8.3. On Bill Repayment (OBR) – Gas

Customer type	All commercial gas customers
Max loan size	\$1,000 to ~\$100,000 (may be larger for SEMP's or special projects)
Maximum Tenor	3 years for commercial accounts, 5 years for State facilities
Loan Volume	Variable, between \$1MM and 1.5MM per year
Benefits to customer	No formal credit check/ rapid approval, on bill repayment, zero interest
Limitations	Maximum tenor too short for many comprehensive upgrades, cannot be used to support upgrades customers may desire such as windows and roofs as they have a B/C ratio less than 1.0
More information	National Grid's Gas revolving loan fund projections for 2021 are illustrated in Attachment 6, Table E-10
Notes	

8.4. Efficient Buildings Fund (EBF)

Customer type	State agencies, quasi-state agencies, and municipalities
Max loan size	More than \$5MM
Maximum Tenor	Up to 20 years

Loan Volume	Variable, ~\$20.5MM loans outstanding to date
Benefits to customer	Below market rate interest, long tenor, 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 detail on this mechanism can be found in Attachment 5, Table E-10 and at the end of this attachment in Section 13.
Description	<p>The Efficient Buildings Fund (EBF) is a long-term, low-cost financing option for municipalities and quasi-public agencies to complete energy efficiency and renewable energy projects. Specifically, EBF offers loans no less than 20% below the borrower’s market rate of financing. EBF is administered in partnership with RI OER and the Rhode Island Infrastructure Bank (The Bank, Infrastructure Bank, or RIIB). OER is responsible for determining project eligibility, reviewing project applications and producing a Project Priority List (PPL). The Infrastructure Bank only finances projects that are listed on the PPL. OER, the Infrastructure Bank and the National Grid municipal sales representative work together to originate efficiency projects that meet the requirements of least cost procurement. EBF also provides financing for renewable energy projects and uses other sources of capital to finance those transactions.</p> <p>National Grid provides technical and logistical support to customers, principally municipalities, in the following areas:</p> <ol style="list-style-type: none"> 1. National Grid arranges and incentivizes scoping studies at 100% of cost. The Company also assists customers with paying for more advanced engineering reports that provide more precise savings and cost information necessary to execute an upgrade with confidence. National Grid typically covers 50% of the cost of this report. The Company refers to these reports as Technical Assistance (TA) studies. 2. National Grid also assists municipalities by helping them issue and evaluate Requests for Proposals (RFPs). This includes, but is not limited to, developing an appropriate scope of work, developing technical requirements, supporting coordination between vendors and the municipality, and helping to review submitted bids. This is a vital service as municipalities do not have the resources to do this on their own.

3. National Grid funds and manages a University of Rhode Island (URI) fellow who has been a critical element in getting Rhode Island schools benchmarked on the Environmental Protection Agency’s (EPA) Portfolio Manager platform. This benchmarking gives schools and municipalities insight into where they might want to prioritize energy efficiency upgrades.
4. National Grid’s municipal sales representative works closely with OER and RIIB though virtually every step of the process from the promotion of EBF to post inspection of installed measures. Leads on potential projects may start with National Grid or OER or RIIB.

Program Outcomes

EBF provides upfront loans rather than reimbursable incentives given upon project completion. (Customers who borrow money through EBF still receive incentives from the Company if they are eligible to do so.) In EBF, finance agreements are entered into prior to the construction work commencing, typically after procurement. EBF ensures that the municipality will have capital available to invest in the project and not have to self-finance a project while waiting for a reimbursement. EBF loans are often large and EBF projects can have long construction timelines. Potential timing delays include long municipal approval timelines, construction related delays and other delays due to project intricacies. However, the complex projects in this program unlock deeper energy retrofits than would otherwise be possible. An upfront loan structure greatly enables projects that would otherwise face financing barriers. The drawbacks to an upfront loan structure include 1) the potential for lag between when financing closes and when the project begins and 2) accounting difficulties concerning when funding is allocated and when energy savings are realized. However, EBF attempts to mitigate the chance of construction delay by prioritizing shovel ready projects, and accounting difficulties can be overcome through careful program administration. In general, for this program the benefits of upfront financing are thought to outweigh the drawbacks.

Table 8. Program Outcomes through Year End, as of September 2020

Contributed Capital	\$ 21,870,447
System Benefit Charge	\$ 16,870,447
SBC Transfer 9/29	\$ 5,126,000

Total Loans Issued	\$ 20,577,618
Anticipated '20 Loans	\$ 27,200,000
Total Loans (12/2020)	\$47,777,618
Program Leverage Ratio	2.18x

Table 8 shows a summary of outcomes over the life of the program since inception in 2016.

Two EBF loans are anticipated to close the week of November 2, 2020 as part of a RIIB bond issue. Both loans are for energy efficiency projects and are expected to total \$27,200,000.

Program Status

The first EBF loan was issued in 2016. Since that time, additional loans have been issued, funds have been disbursed, and principle has been repaid. In total, nine loans have fully disbursed while the remaining loans are being actively drawn upon. Table 9 describes the status of the program accounts and the amount of loans made for energy efficiency projects.

Table 9. EBF Program Status, as of September 15th, 2020

EE Loans	\$ 20,577,618
Funds Disbursed	\$ 17,702,442
*Principle Repaid	\$ 2,777,702
<i>*Includes principal from all EE loans regardless of funding source (SBC, bond proceeds, etc.)</i>	

Borrowers set their disbursement schedule to match when funds are needed for their project. EBF loans typically do not enter repayment until one year after financing is issued. The principle that has been repaid is recycled and made available for issuing new loans. As the program matures and more loans begin principle repayment, the amount of recycled funds is expected to grow significantly. The Bank and its partners expect the remaining funds for closed loans to be fully disbursed in 2020 and 2021 and are working with program borrowers to ensure a timely construction schedule.

Pipeline Forecasting and	EBF does not have a dedicated revenue stream such as the Bank's other revolving loan funds and is supported from electric / gas ratepayer funds (Energy Efficiency) and Regional Greenhouse Gas
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<p>2021 Transfer Request</p>	<p>Initiative funds (Renewables) that allow it to operate. These funds are leveraged in the bond market to result in a pool of funds that is approximately 2x larger than the amount transferred. The funding pool is then used to issue loans to municipalities and quasi-public agencies. As the borrowers repay their loans over the financing term, the funds are returned to the pool and can be recycled to issue new loans. The first loans were issued in 2016 with terms of 15-years and the amount recycled on an annual basis is small. While recycled funds are being invested into new loans coming into the EBF portfolio, until the EBF portfolio grows to a significant size new capital allocation to the program is required.</p> <p>The Bank has developed and implemented a granular method for estimating the program pipeline and transfer amount needed. The program partners assess specific clients who have indicated interest in the program and assign “likelihood” percentages to each project.</p> <p>Likelihood weighing factors were applied to projects following the following framework:</p> <ul style="list-style-type: none"> • 0.75: These projects have a completed scope of work and town officials have confirmed that they will apply to the program and plan to borrow. • 0.50: Town officials are interested in applying and the Company and the Bank are undergoing project scoping efforts with the town. • 0.25: Initial project conversations are underway, and the Bank expects to receive a decision to finance within one year. • By taking the weighted average of expected projects (specifically, multiplying the expected project funding need by the likelihood of the project moving forward in FY2020, and summing for all projects), an estimated \$23,875,000 in project pipeline is expected in 2021. <p><i>Table 10. Forecasted 2021 Pipeline: Financing Costs</i></p> <table border="1"> <thead> <tr> <th>Loan Number</th> <th>EE Eligible Financing Estimate</th> <th>Probability</th> <th>Weighted Financing Estimate</th> <th>Construction Completion Estimates</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>\$ 4,000,000</td> <td>75%</td> <td>\$ 3,000,000</td> <td>2021/2022</td> </tr> <tr> <td>2</td> <td>\$ 2,500,000</td> <td>75%</td> <td>\$ 1,875,000</td> <td>2021/2022</td> </tr> <tr> <td>3</td> <td>\$ 5,000,000</td> <td>75%</td> <td>\$ 3,750,000</td> <td>2021</td> </tr> </tbody> </table>	Loan Number	EE Eligible Financing Estimate	Probability	Weighted Financing Estimate	Construction Completion Estimates	1	\$ 4,000,000	75%	\$ 3,000,000	2021/2022	2	\$ 2,500,000	75%	\$ 1,875,000	2021/2022	3	\$ 5,000,000	75%	\$ 3,750,000	2021
Loan Number	EE Eligible Financing Estimate	Probability	Weighted Financing Estimate	Construction Completion Estimates																	
1	\$ 4,000,000	75%	\$ 3,000,000	2021/2022																	
2	\$ 2,500,000	75%	\$ 1,875,000	2021/2022																	
3	\$ 5,000,000	75%	\$ 3,750,000	2021																	

4	\$ 4,000,000	75%	\$ 3,000,000	2021/2022
5	\$ 15,000,000	75%	\$ 11,250,000	2021/2022
6	\$ 2,000,000	50%	\$ 1,000,000	2021/2022
Total*	\$ 32,500,000		\$ 23,875,000	

All numbers are EE only

Table 11. Forecasted 2021 Pipeline Loan Descriptions Savings

Loan Number	Project and Measure Description	Annual Savings Estimate - MWh	Annual Savings Estimate - Therms	Lifetime Savings Estimate - MWh	Lifetime Savings Estimate - Therms
1	Lighting upgrades, will move forward once MOU completed between National Grid and RIDOT	1,600	-	24,000	-
2	Comprehensive efficiency, already listed on PPL	867	16,667	13,000	250,000
3	Comprehensive Energy Efficiency, financing in May 2021	1,733	33,333	26,000	500,000
4	Seeking borrowing authority for energy efficiency projects in November	1,400	26,667	21,000	400,000
5	Building Energy Efficiency, has borrowing authority	5,267	100,000	79,000	1,500,000
6	Building Energy Efficiency, on PPL, seeking borrowing authority in November	733	13,333	11,000	200,000

	<p>Table 10 and Table 11 above show the expected 2021 pipeline including financing costs, probability of closing the loan and expected annual (over several years) and lifetime savings. The forecasted 2021 pipeline consists entirely of energy efficiency projects.</p> <p>The EBF program pipeline includes projects from borrowers that have already received authority to borrow or are seeking borrowing authority in November 2020. The Bank’s conversations with municipal clients have provided indications that those clients with existing debt capacity will borrow in the near term to take advantage of the historically low interest rates to invest in critical energy efficiency infrastructure projects while not drawing on any rainy day reserve funds.</p> <p>As indicated in the pipeline, the loan numbers 1 – 6 will begin construction in 2021 and will need funds to start construction. Some of these improvements will be completed in 2021 and others will be completed in the following years.</p> <p>The EBF has a weighted average pipeline of \$23.875 MM in projects. To meet this demand, the Bank is requesting a \$5 MM infusion of capital from the energy efficiency plan in 2021 for EBF.</p> <p>As the program matures over time, the leverage will be achieved with an increasing proportion of recycled dollars and a decreasing proportion of transfer funds. For 2021, the sixth year of the program, a high proportion of transfer funds are needed to support new loans.</p> <p>RIIB will request funds transferred on an as-needed basis with no more than three funding transfers. A funding request from RIIB will consist of an email to the Company with the following, supporting documentation: 1. The relevant, final Project Priority List(s) (PPLs) indicating which projects have been approved for EBF funds and have met the EBF rules and regulations including requirements for cost-effectiveness, 2. Notification from an EBF applicant that they intend to close a loan in calendar year 2021, and; 3. Documentation that RIIB doesn’t have sufficient SBC and/or SBC repayment funds to commit to the municipalities in Point 2.</p> <p>The Company will transfer funds to RIIB within sixty (60) days of receiving a confirming funding request from RIIB.</p>
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<p>2021 Actions</p>	<p>The Bank and National Grid have also been working with school districts and identified many possible energy efficiency measures to school building retrofits and new construction that would be eligible for financing through the EBF program. The Bank is working with Rhode Island Department of Education and the school districts to determine what portion of school needs falls under Housing Aid and what portion fits better in the EBF program to enable the lowest total cost of financing for the borrower.</p> <p>Determining how portions of a school project should be financed, considering multiple available financing sources and financing organizations, can be complex. The Bank and its partners are building a model that can be applied to other school districts to enable an efficient and standardized funding process for new and retrofit school buildings. This new model will streamline the process for schools and should result in future pipeline growth.</p>
<p>Notes</p>	<p>Use of Funds</p> <p>Funds allocated to the EBF, including interest earnings, will be used in accordance with least cost procurement law, the EBF enabling act (Chapter 46-12.2), and regulations filed by the Office of Energy Resources and Rhode Island Infrastructure Bank governing the administration of the program. The Bank administers the EBF as a revolving loan fund, making loans from time to time for eligible projects, and tracks the funds awarded under the Plan independently of other sources of funds which provide additional capital for the EBF program. The funds allocated to the Bank and EBF under prior and future Settlement Agreements have been or will be committed to financing energy efficiency projects. As those loans are repaid into the EBF, such repayments will be re-lent for other eligible energy efficiency projects on the OER PPL. To the extent that such repayments have not be re-lent for an eligible energy efficiency project, the repayments will be available to pay debt service in the unlikely event of a default on a RIIB issued EBF bond. Having these loan repayments available to pay debt service in the event of a default on an EBF bond provides significant interest savings for all borrowers of the EBF program.</p> <p>Bank Statement Regarding Future Allocations</p>

	<p>“The Bank believes that a stable allocation of \$5 MM provides clarity to the Bank’s clients, knowing that there will be funding available on an annual basis for energy efficiency project. We also believe a stable allocation of \$5 MM provides clarity for stakeholders involved in the energy efficiency plan process while not negatively impacting ratepayers with changes in the request on an annual basis. The Bank also leverages the funding with private capital from the bond market and we typically invest more than is allocated to the EBF by the plan in any given year.</p> <p>If the energy efficiency plan could accommodate an allocation of more than \$5MM, the Bank would take these funds and put them to use in 2021. As the program matures over time, the leverage will be achieved with an increasing proportion of recycled dollars and a decreasing proportion of transfer funds. Over time, based upon the results of how the Bank manages other revolving loan fund programs, the Bank expects to leverage EBF capital 3x to 4x.”</p>
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8.5. 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 the RI 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 detail on this fund can be found in Attachment 5, Table E-10.

8.6. Commercial Property Assessed Energy (C-PACE)

Customer type	Owners of non-residential property
Max loan size	Limited only 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+
Changes for 2021	In 2021, National Grid will continue to work with the Rhode Island Infrastructure Bank (RIIB) and its partners to promote C-PACE.

	<p>Deliverables:</p> <ul style="list-style-type: none"> • Case studies co-branded by National Grid and RIIB to demonstrate process for utilizing both incentives and C-PACE • Presentation of mechanism to access new construction resources for in-person and webinar meetings • One-page summary of process with contact information for engaging National Grid and RIIB for new construction resources <p>Marketing Channels:</p> <ul style="list-style-type: none"> • Property developers with active building pipelines in RI • Municipal Economic Development officers and planning boards/commissions • CommerceRI • Local Chambers of Commerce
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8.7. Ascentium Rental Agreement

Customer type	Owners of non-residential property
Max loan size	No stated limit
Maximum Tenor	Variable
Loan Volume	Variable
Benefits to customer	Rapid preliminary approval, rental product is considered an operating cost
Limitations	Specific terms of the agreement may not work for all customer types

9. Other Enabling Strategies for Customer Engagement

9.1. Improving Quality and Efficiency in Project Cycle Times

The Company is committed to providing customers with a more expedited project initiation and incentive application (transactional) experience. The Company continues to look for process improvement relative to processing applications, and the building Technical Assistance (TA) review process.

9.2. Energy Management Framework Platform

In the Fall of 2020, the Company will begin to explore how to collect, catalog, and store specific nameplate information from the customers facility. The Energy Management Framework

Platform will be used to facilitate the decision-making processes via advanced insights and data processing. The platform has the potential to help better inform the Company as to what specific energy conservation measures are needed, when such measures should be proposed, and with what level of financing. The tool will be developed with the intent to iterate, modify, and build upon useful data fields, analytic capabilities, and advanced customer insights and trends.

9.3. Tools for Customers' Management of Energy Usage

The Company intends to help customers access their energy data to allow for greater awareness of energy consumption. The Company will seek to achieve this through the various methods described below:

9.3.1. Automated Benchmarking Systems

National Grid has developed a path towards automating data uploads into Energy Star's Portfolio Manager. Automated transfer of usage data to customers helps customers better understand and manage their energy use, supports prior OER commitments to state and municipal facilities improvements, and is an important tool in the future for building labeling. Customers can automatically upload aggregate, whole building energy usage data, both electric and gas, onto Portfolio Manager, allowing building owners and stakeholders to benchmark energy usage and performance and compare usage to similar buildings nationally. In Rhode Island, properties that have three active accounts or less per fuel (electric and/or gas) are required to submit consent forms for each tenant.

The Company will support benchmarking efforts with customer support on automating data uploads as well as provide access to EPA training on Portfolio Manager. Additionally, the Company will send marketing and informational emails to customers to inform them of the automated benchmarking process. Company support is now available to National Grid customers in RI, MA and NY.

Additionally, the Company will continue to support the White House and DOE Green Button initiative. The Green Button initiative allows customers to securely download their own digital energy usage with a simple click of a literal "Green Button" on electric utilities' websites. This initiative is available to both electric and gas customers.

9.3.2. Building Labeling

The Company will continue to work with OER and other stakeholders to identify strategies for building labeling in the commercial and multifamily real estate sectors in Rhode Island. The Company will continue to work closely with OER to support property owner and tenant access to usage data.

9.4. Enabling Technologies

9.4.1. Removable Insulated Jackets for Big Steam Plants

For some of National Grid's largest customers, steam turbine insulation jackets improve both efficiency as well as safety in the plant. They are easily removed and replaced by any staff member. Both standard and custom sized jackets are available. A heat loss reduction of 135 BTUs per square foot per hour can result from using the jackets and one single turbine can save \$9,500 in energy in a year. Touch temperature of the turbine can be reduced from 750^o F to 145^o F, improving safety. This product also has a five-year guarantee. This is a custom express gas measure that can save customers tens of thousands of therms annually. The measure will be aggressively implemented by the Company's energy efficiency sales teams in RI to all medium to large C&I customers who use steam and high temperature hot water for processes and space heating. It can also be used on all valves, fittings, steam traps, condensate tanks and uninsulated hot water tanks. The jacket has excellent synergies with general mechanical insulation on piping systems, steam system assessments, and steam trap surveys. National Grid is providing training for these measures with targeted webinars on gas measures and Steam System Assessments. This has been successful at universities, colleges, and hospitals and other large steam users in both Rhode Island and Massachusetts.

9.4.2. Heat Watch

The Company is also facilitating "Heat Watch" for Multifamily, small business, and C&I programs. This service includes running boilers in conjunction with controlling and managing the whole boiler and heating systems for a facility. This service will save 10-15% of energy on steam systems by preventing overheating and improving temperature control of spaces, especially during spring and fall.

9.4.3. Cozy™ Radiator Covers

The Cozy™ Radiator covers are insulated enclosures with a room temperature sensor controlling a fan that introduces heat to the space when needed. It virtually makes each steam radiator its own controllable HVAC zone. One NY University was able to reduce boiler run times by 41%.⁸ Non-energy benefits include increased asset value, improved tenant/occupant comfort, reduced emissions, and improved safety. One college in Rhode Island has had good results. This measure is available as a custom project.

⁸ <https://www.radiatorlabs.com/wp-content/uploads/2016/08/CaseStudy-ColumbiaUniversity.pdf>

9.4.4. Aero seal

Aero seal is for both heating and cooling. It provides duct sealing to seal up old leaks by blowing in atomized polymers. This measure has been successful at a Rhode Island college.

10. Marketing to Commercial and Industrial Customers

In 2020, the Company intended to continue to educate customers about energy efficiency and increase participation in its energy saving offerings for Rhode Island’s business customers, which the Company did through mid-March of 2020. Once the COVID-19 Pandemic began, the Company decided to pause marketing communications related to energy efficiency programs in an effort to be sensitive to what our customers were experiencing during this difficult time. The Company kept our website up to date so that any customer who chose to seek out energy efficiency information on their own could still find it. The focus shifted to informing customers about the different resources available to businesses during the pandemic and informing customers about energy efficiency tips that they could perform on their own.

The Company was eventually able to offer virtual energy assessments in some cases and, slowly and cautiously, resumed marketing activities related to energy efficiency programs in July 2020. July featured the launch of the “Open Up to New Possibilities” campaign. This campaign’s strategy is to relate to and understand what business customers are going through at this particular moment in time. The messaging does not sell or push any specific product, but instead offers help when customers are ready to discuss how energy efficiency can save them money. The messages also bear in mind the various stages of economic reopening and use language that can be applied to any stage. Visually, the campaign relies on large impactful imagery that adheres to proper social distancing and mask guidelines (see Figure 8).

Figure 8. Open Up to New Possibilities Campaign Images

Refresh. Refocus. Reimagine.
Move forward and bring a healthier business with you. We can help.
We know your business may look a little different now. That's why National Grid has new ways of thinking that support new ways of doing business. When the time is right for you, let's partner together to reevaluate your safety and refresh your spaces with an energy-efficiency plan tailored to your specific needs. Together we can create more comfort and confidence with relevant energy solutions you can rely on.
When you're ready, let's talk. Our door is always open.
Air quality improvements | Heating and cooling loads | LED lighting solutions
Open up to new possibilities at ngrid.com/biz or call 800-332-3333.
nationalgrid

nationalgrid
Achieve five stars for guest and staff confidence.
See how energy efficiency can help improve your business
Attract and retain loyal guests and staff members by making your hotel safer, healthier and more comfortable. We can help with cost-effective strategies for improving air quality, airflow, ventilation and more throughout your property. When you're ready, let's talk about using energy to elevate guest and staff experiences, all while accommodating your budget.*
HVAC: Minor upgrades can help meet new requirements for air quality.
System Optimization: Air balancing, circulating fans and other low-cost enhancements will improve comfort.
Air Sealing: Improved insulation can keep clean air in and dangerous airborne pathogens out.
OPEN UP TO NEW POSSIBILITIES
*In-person and virtual walk-throughs of your facility are available.

For customer targeting and media planning, the Company continues to utilize its previously attained customer survey research insights data and customer personas (see Figure 9) for the business customer. The Company aims to represent the voice of the customer in all campaign planning. Prior to launching the “Open Up to New Possibilities” campaign, National Grid surveyed our Business Customer Council and utilized the insights from that survey to determine appropriate messaging and imagery.

The Company will continue to utilize commercial customer persona research to inform our key messages and marketing channel selection. However, we will gradually evolve the “Open Up to New Possibilities” campaign based on how business customers in our territory are able to operate and respond as they recover from the pandemic. National Grid will pay close attention to how the pandemic continues to impact customers and remain nimble with our approach.

Figure 9. 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
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 	

As National Grid develops 2021 campaign plans, paying close attention to the appropriate messaging and tone as business customers recover and re-open, the Company will dive into the characteristics of each segment and adjust messaging and targeting where appropriate. The goal is to enhance targeting and messaging, not to eliminate any commercial customer targets.

The hope is that over time the “Open Up to New Possibilities” campaign will naturally evolve into the “See the Possibilities” campaign message begun in 2019, which focused on getting business customers to see more of what energy efficiency upgrades and incentives can do for their business. The “See the Possibilities” campaign was developed to serve as an overarching campaign that provides a unified message for large commercial customers, small business customers, and multifamily customers. In 2021, the Company will continue to utilize a fully integrated strategy that leverages digital marketing, paid search and social media marketing, print advertising, email campaigns as well as public relations.

In 2019, the Company began leveraging earned media/PR as a truly integrated part of our marketing campaign (see Figure 10). This includes media relations and influencer engagement and National Grid will continue this strategy moving forward.

Figure 10. Earned Media/PR Strategy

Earned Media/PR Strategy

NEW FOR ALL: Implement a News Bureau Program which allows us to proactively build awareness of National Grid's incentives to all the key stakeholders in each market and across all business segments & verticals through:

- Media Relations - ongoing, proactive pitching of trade and business media
- Influencer Engagement
- Event Management
 - Speaking opportunities for National Grid SMEs (subject matter experts) at strategic events
 - Focus on trade events for outreach to plumbers, electrician associations, etc.
 - Press kit generation to development background information, fact sheets, press releases, images, etc.
 - Considering over 14 events for NYS 2019
- Partnerships with Trade Associations
- Content development and editorial calendar for social media, case studies and more
 - Tie into seasonal and relevant engagements (i.e. small business week social blitz)
 - Promote key topics like new construction, manufacturing, green building in NYS, etc.
 - Allows us to really dig deeper and provide more relevant content to key focal areas
 - Ex: Specifically for UNY property managers, developing content that drives home ways National Grid can help mitigating risk and tenant complaints, provide financial solutions, and improve tenant retention.
- Business segment specific research studies (i.e. multi-family landlord/tenant research) to build out additional case studies and renter email campaign



While National Grid's paid media primarily targets people directly involved in the decision-making process for capital budgets and facility improvements/projects, C-Suite & Facility Managers, and Small Business owners, the Company does have some advertising and communications dedicated to its secondary audience of key influencers. These are the people/firms that influence energy project go-forward decisions, for example, Distributors, Project Expeditors, Engineers, Architects, etc. who may have an existing relationship with the customer.

In planning for 2021, the Company will continue to focus on the key strategies that have proven successful in 2019 and in the early part of 2020, but will continue to evolve and adjust tone and messaging as appropriate to remain sensitive to our customers' needs. National Grid has continued to work to update our 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.

11. Commercial and Industrial Measures and Incentives

Table 12. Electric Programs

Electric Programs					
Program	Subprogram	Net Annual kWh Tracker by Subprogram	Incentive / Net Annual kwh	Total Incentives	Shared Costs
Large Commercial New Construction	D2 CAIR	391,294	\$0.15	\$57,433	
	C&I Codes	289,000	\$0.00	\$0	
	D2 Upstream Food Service	110,998	\$0.66	\$73,315	
	D2 HVAC Prescriptive	1,730,239	\$0.28	\$487,210	
	Upstream Heat Pump - Ductless	17,766	\$1.30	\$23,044	
	Upstream Heat Pump - Packaged	27,825	\$1.80	\$50,000	
	Upstream HVAC Air Conditioners	219,950	\$0.40	\$88,527	
	Upstream HVAC Controls	11,355	\$0.16	\$1,776	
	Upstream HVAC ECM Pump	11,355	\$0.45	\$5,090	
	Upstream HVAC VRF	136,343	\$0.49	\$67,018	
	D2 Lights	3,033,897	\$0.27	\$824,387	
	Motors and VFD	166,943	\$0.31	\$51,614	
	Upstream HVAC Refrigeration	9,405	\$1.17	\$11,000	
	Comprehensive Design - Custom	554,995	\$1.06	\$589,000	
	Compressed Air - Custom	1,144,055	\$0.62	\$714,663	
	HVAC - Custom	1,826,109	\$0.97	\$1,778,189	
	Lighting - Custom	461,543	\$0.32	\$149,500	
	Motors & VFD - Custom	231,320	\$0.35	\$80,750	
	Process - Custom	1,052,380	\$0.51	\$541,385	
	Refrigeration - Custom	301,481	\$0.70	\$210,484	
Other - Custom	108,512	\$0.62	\$67,785		
	Program Planning & Administration				\$218,601
	Marketing				\$351,954
	Sales, Technical Assistance & Training				\$1,893,580
	Evaluation & Market Research				\$163,872
Large Commercial Retrofit	CHP	1,430,952	\$0.38	\$547,000	
	Custom: SEM	976,247	\$0.04	\$39,050	
	EI HVAC	967,430	\$0.37	\$360,419	
	Custom: Street Lighting	3,987,438	\$0.34	\$1,365,000	
	EI Light: Prescriptive	23,411,087	\$0.42	\$9,726,435	
	EI Light: Upstream A-lines and Decoratives	355,447	\$0.19	\$66,000	
	EI Light: Upstream Exterior	1,316,355	\$0.22	\$287,500	
	EI Light: Upstream G24, G23, MR Lamps, PAR	355,447	\$0.56	\$200,000	
	EI Light: Upstream High/Low Bay	3,689,480	\$0.26	\$945,000	
	EI Light: Upstream Linear Fixture w/ Controls	340,607	\$1.28	\$437,500	
	EI Light: Upstream Linear Luminaires	1,117,190	\$0.41	\$455,100	
	EI Light: Upstream Retrofit Kits	1,212,258	\$0.17	\$204,700	
	EI Light: Upstream Stairwell	15,844	\$1.16	\$18,300	
	EI Light: Upstream TLEDs	1,244,916	\$0.12	\$147,000	
	Motors and VFD	2,165,797	\$0.30	\$654,832	
	Compressed Air - Custom	432,045	\$0.28	\$119,444	
	HVAC - Custom	1,787,287	\$0.89	\$1,596,383	
	Lighting - Custom	11,900,969	\$0.51	\$6,014,000	
	Motors & VFD - Custom	152,236	\$0.30	\$45,325	
	Process- Custom	2,115,552	\$0.45	\$944,793	
Refrigeration - Custom	420,205	\$0.94	\$393,195		
Other - Custom	101,125	\$0.64	\$64,517		
	Program Planning & Administration				\$885,691
	Marketing				\$265,969
	Sales, Technical Assistance & Training				\$5,111,193
	Evaluation & Market Research				\$842,396
Small Business Direct Install	Lighting	8,305,575	\$0.76	\$6,343,353	
	Lighting controls	762,234	\$1.28	\$973,412	
	Non-Lighting	628,384	\$0.98	\$617,540	
	Program Planning & Administration				\$278,307
	Marketing				\$281,187
	Sales, Technical Assistance & Training				\$338,857
	Evaluation & Market Research				\$50,904

Program	Subprogram	Demand Response kW Goal	Incentive / Net Annual kW	Total Incentives	Shared Costs
Commercial Connected Solutions	Daily DR Resources	4,000	\$300.00	1,200,000	
	Peak Shaving DR (MW)	29,600	\$50.00	1,480,000	
	Program Planning & Administration				\$88,051
	Marketing				\$7,564
	Sales, Technical Assistance & Training				\$214,490
	Evaluation & Market Research				\$0

Table 13. Natural Gas Programs

Gas Programs					
Program	Measure Groups	Net Annual MMBtu Tracker by Subprogram	Incentive / Net Annual MMBtu	Total Incentives	Shared Costs
Large Commercial New Construction	Boilers	3,514	\$71	\$249,978	
	CODES AND STANDARDS	358	\$0	\$0	
	Combo Boiler/DHW	893	\$135	\$120,652	
	Non Boiler Heating	137	\$72	\$9,941	
	COND WATER HEATER 94%MIN 75-3	288	\$143	\$41,307	
	COOKING-COMBO OVEN 1	111	\$16	\$1,720	
	COOKING-CONVECTION OVEN 1	26	\$168	\$4,341	
	COOKING-CONVEYOR OVEN 1	44	\$20	\$861	
	COOKING-FRYER-1000	50	\$34	\$1,720	
	COOKING-COMBO OVEN 1 - Upstream	310	\$17	\$5,283	
	COOKING-CONVECTION OVEN 1- Up	838	\$148	\$124,068	
	COOKING-CONVEYOR OVEN 1- Upst	58	\$17	\$1,000	
	COOKING-FRYER-1000- Upstream	6,180	\$38	\$232,283	
	COOKING-GRIDDLE 1- Upstream	58	\$17	\$1,000	
	COOKING-RACK OVEN 1- Upstream	58	\$17	\$1,000	
	COOKING-STEAMER-1000- Upstream	58	\$17	\$1,000	
	WATER HEATER - Indirect Upstream	314	\$73	\$22,797	
	Water Heaters 94 and above	534	\$74	\$39,594	
	Custom	9,769	\$31	\$307,184	
		Water Heating Boiler - 94% TE	4,033	Up to 75% of Total Resource Cost	\$58,414
	Program Planning & Administration				\$129,437
	Marketing				\$190,083
	Sales, Technical Assistance & Training				\$1,076,780
	Evaluation & Market Research				\$98,718
Large Commercial Retrofit	Controls	13,065	\$20	\$264,176	
	Custom: RCx	3,664	\$16	\$60,000	
	Behavior / Training	2,720	\$0	\$0	
	DHW	653	\$15	\$9,500	
	HVAC	19,040	\$17	\$327,419	
	Prescriptive Steam Traps	56,177	\$10	\$542,147	
	Custom: General	84,464	\$18	\$1,485,444	
	Custom: SEM	7,500	\$30	\$225,111	
	Program Planning & Administration				\$245,112
	Marketing				\$315,774
Sales, Technical Assistance & Training				\$1,436,967	
Evaluation & Market Research				\$182,467	

Gas Programs								
Program	Measure	Net Annual MMBtu Tracker by Subprogram	Incentive / Net Annual MMBtu	Total Incentives	Shared Costs			
Small Business Direct Install	Small Business Gas	4,886	\$49	\$239,274				
	Program Planning & Administration				\$6,873			
	Marketing				\$40,360			
	Sales, Technical Assistance & Training Evaluation & Market Research				\$32,885 \$758			
C&I Multifamily	Air Sealing_MF	1,020	Average Incentive based on measure mix					
	CUST NON-LGT_MF	7,669						
	Faucet Aerator_MF	56						
	Insulation_MF	10						
	Pipe Wrap (Water Heating)_MF	42						
	Programmable Thermostat_MF	437						
	TSV Showerhead_MF	149						
	WiFi thermostat gas_MF	61						
	Participant_C&I	1,459				\$518	\$756,000	
	Program Planning & Administration							\$28,085
	Marketing				\$22,416			
Sales, Technical Assistance & Training				\$144,241				
Evaluation & Market Research				\$2,476				