2022 Commercial and Industrial Energy Efficiency Solutions and Programs

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1. 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 2022

While the Company anticipates that lighting will continue to constitute the largest single source of savings in the C&I programs, its efforts are focused on driving non-lighting opportunities and program enhancements that encourage deeper, more comprehensive measure adoption in every customer class. These efforts will increase savings from HVAC and other non-lighting measures in 2022 compared to recent years and serve as building blocks that will transform the portfolio in the coming years. In 2022, the Company will:

- Implement recommendations from a 2021 study of market barriers and opportunities, which further explores measures highlighted in the 2020 Market Potential Study.
- Scale up Small Business weatherization.
- Streamline the retro-commissioning process.
- Fund monitoring-based commissioning set-up costs.
- Increase Active Demand Response (ADR) targets by 23% above 2021 estimates.

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- Expand the focus on non-lighting measures and ADR within existing vendor-driven initiatives.
- Conduct targeted training activities for program delivery workforce on specific nonlighting measures.
- Investigate several promising new measure offerings, including enhanced rooftop unit (RTU) controls and grocery refrigeration leak detection repairs.

In some cases, these are long-term investments where it may take years to realize the full benefits. For example, a more highly trained workforce can complete better system installations for years. Likewise, MBCx systems can drive significant savings over time, but it can take a year or more to yield results. Similarly, the Whole Building approach, which was revamped in 2021, seeks to influence the design of buildings that take several years to complete.

The specific priority measures reflect a wide variety of non-lighting measures, particularly encouraging adoption and improved operation of heating, cooling, and ventilation (HVAC) technologies. The innovations and enhancements also reflect many ideas and insights that have evolved from the close collaboration with the Energy Efficiency & Resource Management Council (EERMC) and its consulting team, the Office of Energy Resources (OER), and the Division of Public Utilities and Carriers (the Division), as well as our vendors, customers, and trade allies.

The Company is continuing its focus on specific market segments to engage customers with tailored approaches to generate more comprehensive measure adoption (Telecommunications initiative launched in 2021), enhancements that make participation easier (such as the Equipment and Systems Performance Optimization), provide attractive incentives for specific customer classes (especially Small Business), and enhancements that reduce barriers to comprehensive measure adoption (e.g., Whole Building Streamlined pathway in New Construction).

Equity is another major focus in this plan, in alignment with the objective in the Least Cost Procurement (LCP) that program design shall "ensure that all customers have equitable opportunities to participate in the offerings of EE Plans." To that end, the Company will continue to offer robust opportunities to small businesses customers. New C&I activities include targeting of woman and minority-owned enterprises, hiring multilingual small business auditors, conducting participant surveys in multiple languages, and promoting equitable hiring practices through vendor agreements. The Company is continuing to monitor the Equity Working Group and will implement recommendations as appropriate and prudent within the C&I portfolio.

The Company has also collaborated with stakeholders to address workforce development issues in alignment with the LCP standard, which states, "The distribution company shall include wherever possible and practical partnerships with existing educational and job training entities."

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To meet these objectives, the Company plans to ensure contractors and engineers participating in the programs receive proper design and installation training from manufacturers or others and encourage achievement of advanced certifications to further enhance expertise. To complement this effort, the Company will sponsor targeted training sessions to upskill the existing workforce in supporting high-performance buildings with advanced technologies, including trainings on advanced controls for HVAC and lighting. These efforts are described under Cross-Cutting Programs.

Finally, this plan will be implemented in an environment of rapidly rising inflation, potentially driven by government stimulus, workforce shortages, and supply chain disruptions. According to the U.S. Bureau of Labor Statistics' most recent Producer Price Index (PPI) report (July 2021), nationwide prices of finished goods have risen 7.8% over the past year, "the largest advance since 12-month data were first calculated in November 2010." Both lighting and HVAC distributors have reported significant price increases. Inflation is a headwind that will reduce the portion of customer project costs covered by program incentives and lengthens payback periods.

Commercial & Industrial Programs

There are five C&I 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 that 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

Overview

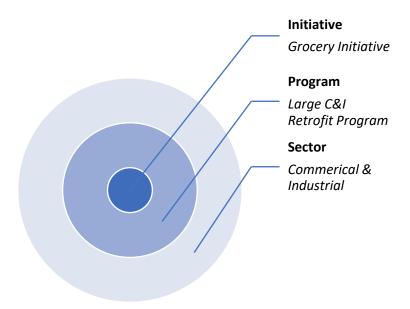
¹ U.S. Bureau of Labor Statistics. (2021, August). PRODUCER PRICE INDEXES – JULY 2021. U.S. Department of Labor. https://www.bls.gov/news.release/pdf/ppi.pdf

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subset of measures or services within that program and/or targets a certain segment of customers. Examples include the Grocery Initiative and Industrial Initiatives, primarily within the Large Commercial and Industrial Retrofit Program (though some savings and incentive spend within these programs are captured in the New Construction Program). Anticipated savings, budgets, and participants for each initiative are included in the program-level totals.

All initiatives support both electric and gas measures, unless otherwise noted or self-evident (e.g., lighting initiatives only cover electric measures).





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 2022, 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 at the end of this Attachment. The Company will continue to engage in pilots, demonstrations, and assessments; please refer to Attachment 8 for a detailed scope and list for each pilot, demonstration, and assessment proposed for the 2022 Energy Efficiency Plan.

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Program Description Structure

In order to streamline PUC, stakeholder, and reader access to the most pertinent program information in the 2022 Annual Plan, the Company has adopted the following structure for each of the programs and program initiatives:

This section describes which customers and/or building types are
eligible for participation in the program or initiatives.
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.
This section describes the process by which the Company engages
the customer with energy efficiency programs and offerings.
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.
The section captures the changes proposed in the year stated.
Captures the rationale for the changes proposed in the planning year.
Evaluation information can be found in this section at the program
level. Industry-focused 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, initiative-level tables do not
include "Proposed Upcoming Evaluations" sections. All evaluation
studies are described in Attachment 3: 2022 Evaluation,
Measurement, and Verification.

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

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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
2022 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 2022

Fuel	Lifetime MWh	Annual	Annual	Lifetime MMBtu	Budget	Participation ³
	(Electric)	MWh	Passive	(Electric Gas, Oil,	(\$000)	
		(Electric)	Demand	Propane ²)		
			Reduction			
			kW (Electric)			
Electric						

Gas Program Goals, Metrics, Budgets, Participation for 2022

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

² For a breakdown of program level energy savings goals see Attachment 5, table E6-A and Attachment 6, table G6-A for more details.

³ For information on the metric used to measure participation by program, please reference the main text, section 2.6

The below figures compare the distribution of the C&I 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.

Figure 2. 2022 Planned Distribution of Lifetime MWh Goals for C&I Electric Sector

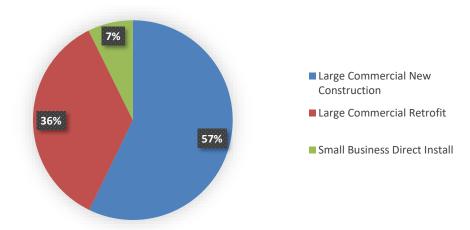


Figure 3. 2022 Planned Distribution of Annual MWh Goals for C&I Electric Sector

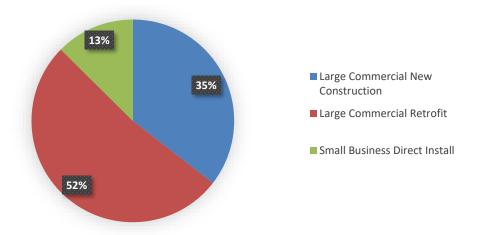


Figure 4. 2022 Planned Distribution of Lifetime MMBtu Goals for C&I Gas Sector

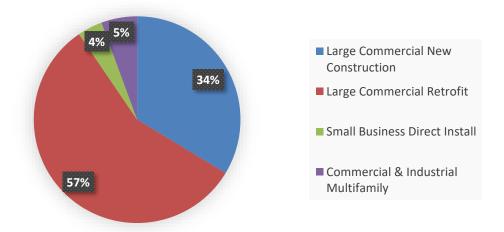
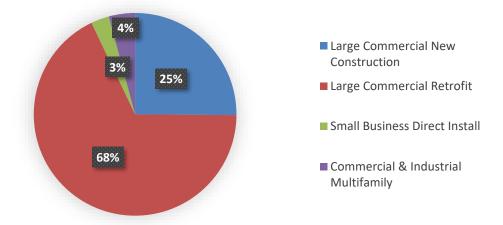


Figure 5. 2022 Planned Distribution of Annual MMBtu Goals for C&I Gas Sector



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2. Large Commercial and Industrial New Construction Program

Eligibility Criteria	The New Construction Program is divided into two main categories to
Lingistine, Criteria	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.
	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.
	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.
	Baseline energy use is considered to be the energy code or industry
	standard practice where applicable. Savings are calculated using the
	baseline. 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.
Offerings	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.
	The Large Commercial and Industrial New Construction Program offers
	four pathways for ground up new construction or major renovation
	projects which were introduced in 2021.

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

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

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in the design process. Technical assistance supports setting aggressive EUI targets and providing financial incentives to meet the EUI goals. To be eligible for incentives in this pathway, projects need to achieve a minimum 10% EUI reduction from the RI baseline. The RI baseline for 2022 will be based on the current RI building code.

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.

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). This program will continue to align with the state's Commercial Stretch Code, including providing incentives and technical support to projects pursuing this goal.

Implementation and Delivery

Zero Net Energy Ready:

The Company's implementation team, which includes vendor support, 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

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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 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.

Whole Building Energy Use Intensity Reduction: The National Grid Energy Efficiency implementation 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

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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 the first year of occupancy to help achieve the EUI. Verification documents must be submitted to obtain the optional verification incentive.

Whole Building Streamlined:

The National Grid implementation 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; from 20,000to 100,000 square feet), 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.

Systems Approach:

The National Grid implementation 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.

Customer Feedback

Customer feedback is gained through implementation team interactions with customers and design teams, who regularly provide insights on what types of technical assistance and design support

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Changes for 2022 The Company will leverage municipal electronic (subject to this data being easily and broadly act trends and better characterize the State's C&I n In early 2022, RI is expected to update its ener baselines, where applicable, will be updated to baseline. Rationale for Changes No significant program changes are proposed four path structure was just introduced in 202 for projects to be completed within this new program its effectiveness can be assessed. Proposed Upcoming There are several ongoing and new evaluation following evaluations are relevant to the Large Program, as well as the Large C&I Retrofit Program, as well as the Large C&I Retrofit Program, as well as the Large C&I Retrofit Program installations RI-21-CG-CustGasPY20 Impact Evaluation of Installations RI-22-CG-CustElecPY20 Impact Evaluation of Installations RI-22-CC-CustElecPY21 Impact Evaluation of Installations	customers to adopt the
Changes four path structure was just introduced in 202 for projects to be completed within this new proposed Upcoming Evaluations There are several ongoing and new evaluation following evaluations are relevant to the Large Program, as well as the Large C&I Retrofit Program As well as the Large C&I Retrofit Program As well	accessible) to identify al new construction market. nergy code. RI program
following evaluations are relevant to the Large Program, as well as the Large C&I Retrofit Program, as well as the Large C&I Impact Evaluation of Installations RI-22-CG-CustGasPY20 Impact Evaluation of Installations RI-22-CE-CustElecPY20 Impact Evaluation of Installations RI-22-CK-FRSO C&I Free-Ridership and Spill RI-21-CE-LightMar C&I Lighting Market Chil	2021. More time is needed
 Installations RI-22-CG-CustGasPY21 Impact Evaluation of Installations RI-21-CE-CustElecPY20 Impact Evaluation of Installations RI-22-CE-CustElecPY21 Impact Evaluation of Installations RI-22-CX-FRSO C&I Free-Ridership and Spil RI-21-CE-LightMar C&I Lighting Market Characters 	rge C&I New Construction Program.
	on of PY2021 Custom Gas on of PY2020 Custom Electric on of PY2021 Custom Electric Spillover Study Characterization Study
The following evaluation is specific to the Larg Program. • RI-22-CX-Codes C&I New Construction a	

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Large Commercial and Industrial New Construction – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual	Annual	Lifetime MMBtu	Budget	Participation
l uci					U	rarticipation
	(Electric)	MWh	Passive	(Electric Gas, Oil,	(\$000)	
		(Electric)	Demand	Propane)		
			Reduction			
			kW			
			(Electric)			
Electric	503,905	28,167	1,745	-211,904	18,387	96

Large Commercial and Industrial New Construction – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	788,763	52,956	3,187	94

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

3.1. Performance Lighting Plus

3.1. Performance Lighting Plus		
Eligibility Criteria	 Any customer with a commercial meter is eligible to participate in this initiative. All projects that qualify under this incentive must: Be a new construction or renovation project that includes the installation of new LED light 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 lighting operating hours per year (before controls). Provide maintained light levels in accordance with the recommendations of the Illuminating Engineering Society of North America's 10th Edition 	
Offerings	Lighting Handbook or supporting Design Guides. Incentives	
	Incentives will be offered in two tiers.	
	Tier 1 – Performance Lighting – LED lighting with Luminaire Level Lighting Controls or Wirelessly Accessible Controls	
	This pathway offers an incentive of \$.55 for each gross kWh saved greater than 40% below code for the building or space type and must meet the following requirements -	
	80% of lighting project load must be controlled LED fixtures (DLC QPL listed or National Grid approved), with all controlled LED fixtures wirelessly accessible to initialize, configure, and commission. Individual fixture addressability and luminaire level lighting control (LLLC) as outlined by DLC is optional. The project must include and demonstrate a minimum of one control strategy per fixture and two different control strategies at the project level (e.g. occupancy, daylighting, task tuning/high end trim). If luminaires are not LLLC, National Grid will consider "room based" controls on a case by case basis.	

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Tier 2 -Performance Lighting – LED Fixtures with Networked Lighting Controls System

This pathway offers an incentive of \$.85 or each gross kWh saved greater than 40% below code for the building or space type and must meet the following requirements -

• 80% of project load must utilize a networked lighting control system, as defined by DLC. The system must be capable of energy monitoring and demand response, as defined by DLC. The customer or their representative must also provide a control narrative for the system with a minimum of two different control strategies at the project level (e.g. occupancy, daylighting, task tuning/high end trim, and it must be fully commissioned with reporting. National Grid recommends that these systems demonstrate demand response capability.

Implementation and Delivery

Application Forms

 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).

Pre-Approval Requirements

- 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.

Installation and Incentive Requirements

- 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:
 - A copy of the completed and signed pre-approval application

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- If there is a change in equipment, the customer must submit a new manufacturer's technical specification sheets ("cut sheets") for each type of eligible equipment purchased
- 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

Application Process and Requirement for National Grid Approval

- 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:
 - Completed and signed Program rebate form
 - Original date receipts for purchase and installation of energy efficiency measures, and

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	 Any other required information or documentation within such time as Program Materials indicate. Pre- and Post-Installation Verification; Monitoring and Inspection 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 2022	National Grid has worked with the consultants to the EERMC to alter incentives and requirements to encourage the adoption of luminaires and systems that offer more savings and flexibility of control. In addition, the incentives are structured in such a way that should be more transparent to vendors allowing for increased throughput. The incentives and requirements are modeled on a successful offering in Connecticut.
Rationale for Changes	 Incentive transparency for customers and their advisors to increase program participation. Move the market forward for luminaires and systems with additional savings and capabilities. Increase the deployment of demand responsive lighting
Notes	Performance Lighting may also be utilized in Retrofit applications as well. Please see the Retrofit portion of this attachment for more details.

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4. 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	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: • 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 the Upstream program.
	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.
	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 5.5.
	The Company has found that although sector specific initiatives and SEMPs 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: • Customer Owned Streetlights • Company Owned Streetlights
	 Equipment & System Performance Optimization Combined Heat and Power (CHP) Fuel Cells
Implementation and Delivery	Prescriptive Application

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	Customers complete a prescriptive application through the Rhode Island Digital Application Portal (RIDAP;	
	https://www.ridap.nationalgridus.com) for a wide variety of energy	
	efficient products such as lighting, air compressors, or variable speed drives (VSDs).	
	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 6.5. Note that Upstream Lighting savings are captured within the Retrofit program, and Upstream HVAC and Food Service are captured within New Construction	
	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.	
Customer Feedback	Please see Initiatives sections for customer feedback.	
Changes for 2022	Specific changes to initiatives in 2022 are described in section 5 below.	
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	There are a number of ongoing and new evaluations planned for 2022. The following evaluations are relevant to the Large C&I Retrofit Program, as well as the Large C&I New Construction Program.	
	 RI-21-CG-CustGasPY20 Impact Evaluation of PY2020 Custom Gas Installations 	
	 RI-22-CG-CustGasPY21 Impact Evaluation of PY2021 Custom Gas Installations 	
	RI-21-CE-CustElecPY20 Impact Evaluation of PY2020 Custom Electric Installations	
	RI-22-CE-CustElecPY21 Impact Evaluation of PY2021 Custom Electric Installations	
	RI-22-CX-FRSO C&I Free-Ridership and Spillover Study	

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	 RI-21-CE-LightMar C&I Lighting Market Characterization Study RI-22-CX-Presc C&I Prescriptive Non-Lighting Impact Evaluation
	 The following evaluations are specific to the Large C&I Retrofit Program. RI-22-CX-RTUOpt Automated RTU Optimization Demonstration Evaluation
Notes	

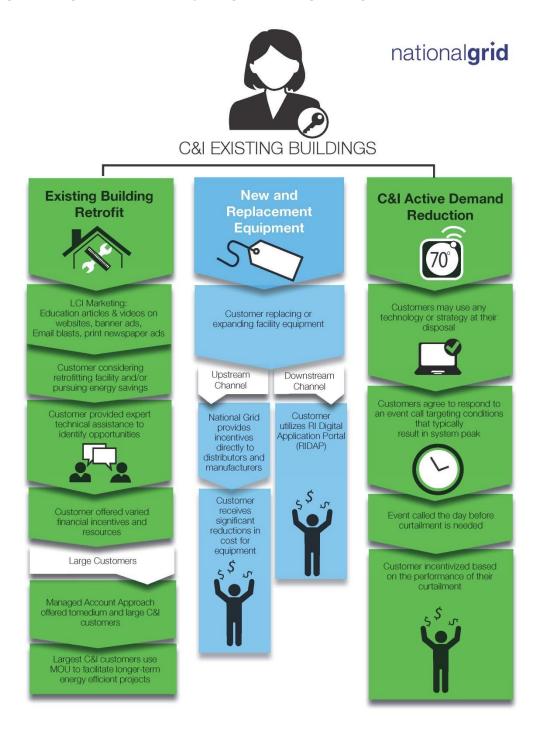
Large Commercial Retrofit – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual	Annual	Lifetime	Budget	Participation
	(Electric)	MWh	Passive	MMBtu	(\$000)	
		(Electric)	Demand	(Electric Gas,		
			Reduction	Oil, Propane)		
			kW			
			(Electric)			
Electric	312,931	41,132	8,490	840,524	25,132	2,239

Large Commercial Retrofit – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime	Annual	Budget	Participation
	MMBtu	MMBtu	(\$000)	
	(Gas)	(Gas)		
Gas	1,332,508	142,888	4,969	62

Figure 6. Large Commercial Retrofit Program (Existing Buildings)



The figure above describes the pathways through which the Company delivers programs to existing buildings.

5. Initiatives Specific to Large Commercial Retrofit Program

5.1. 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 education sessions. Primarily supports
	electric measures.
Implementation	This program is administered by the vendor. Company Account
and Delivery	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.
	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.
	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.
Customer/Vendor	Customer feedback flows through the ESG vendor to internal parties
Feedback	at National Grid.
	OER and its consultants have provided feedback to the Company,
	which is currently under consideration.

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Changes for	The Company is proposing a change to the vendor's performance-
2022	based compensation structure for the 2022 program year, which
	would place greater emphasis on non-lighting measures and
	relatively less emphasis on lighting measures.
Rationale for	Advance the goal of delivering more non-lighting savings.
Changes	
Notes	The Company is conducting an assessment investigating the energy
	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.

5.2. 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 educations 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 2022, 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	The National Grid Sales Representative is responsible for identifying customers or "leads" for the Industrial Initiative Vendor to pursue. The Company and vendor's trade allies provide additional leads.
	Although there is no single process for customer engagement, the vendor typically conducts: billing data analysis, an initial site

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visit, a follow-up report and discussion, development of savings calculations, contractor selection assistance, project management, and EE program application support.

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: 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.

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.

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 Company's Customer Relationship Management (CRM) system.

The Industrial Initiative works closely with the customer's facility staff and contractors to develop workbooks to calculate potential savings and incentives. A "tech check" is submitted to National Grid 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.

The Industrial Initiative Project Manager facilitates the application process from the earliest stage of measure through the completion of the project. The incentive application process

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	may include formal status meetings between the Company's Sales Representative and the Industrial Initiative vendor.
	National Grid works with the Industrial Initiative vendor to continually engage customers, identify new opportunities, and realize more comprehensive energy savings.
Customer/Vendor Feedback	The Company's industrial team has a monthly call to explore challenges and opportunities facing the program, much of which is based on the vendor's interactions with customers and contractors.
	A wide range of feedback is captured during in these calls. For example, the Company worked with the vendor to identify industrial customers with limited historic participation and implemented tactics to engage these customers.
	The vendor also proposed several strategies to help the Sales team, including personalized emails to industrial customers highlighting current program offerings, customer-specific load analyses, and engagement videos.
	The vendor also explained that the greatest savings can be captured from "gold mine" customers with expansive energy consumption and inefficient equipment, as well as those expanding production lines or updating facilities.
	OER and its consultant team provided feedback on potential changes to the scope of work with the industrial vendor.
Changes for 2022	The initiative will expand outreach to customers in the 200 to 400 kW range to encourage greater participation by small- and medium-sized industrial customers.
Rationale for Changes	Historically, the Industrial Initiative has primarily targeted large C&I customers to ensure economies of scale. Expanding outreach to mid-sized customers will improve parity among customer sizes and may capture projects with rapid paybacks.
Notes	Since 2016, the Industrial Initiative has helped diversity the Electric portfolio, with 66% of savings deriving from non-lighting measures, especially compressed air (17%), process (15%), HVAC 14%, and motors & drives (9%) – as well as contributing significant Gas savings.

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5.3. National and Regional Restaurant Initiative

Eligibility Criteria	The Serve Up Savings (SUS) initiative serves regional 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.
Offerings	Technical assistance, project management, incentives, collaboration
	with franchisors to develop a package of efficiency measures that
	will work for their franchisees.
Implementation	Serve Up Savings is a vendor-driven initiative designed to minimize
and Delivery	the effort needed for the customer to participate in the program
and Benvery	and promote common measures employed in this sector. The first
	interaction is a discussion with a Serve Up Savings Account Manager
	to introduce the program and schedule an audit of their stores.
	Typically, this entails an outgoing call to a customer, but eligible
	customers that contact the Company or implementation vendor
	· · · ·
	should be directed to the Account Manager.
	Once the audits have been completed, 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.
	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.
Customer/Vendor	The Company's vendor regularly collects insights and feedback from
Feedback	customers. National Grid's sales team and program managers
I EEUDACK	, c
Changes for 2022	regularly check in with vendors to capture this feedback.
Changes for 2022	No changes.

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Rationale for	
Changes	
Notes	

5.4. Telecommunications Initiative

Eligibility Criteria	This is 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	This program is administered by the vendor. The Company's sales representatives work with in concert with vendor staff members to develop a relationship with the prospective customer. Once the relationship is established, the Telecommunications Initiative offers no-cost audits to the customer. This audit documents and identifies energy efficiency opportunities for the location's HVAC, HVAC controls, airflow management, VFS and fan optimization. Once the audit is complete, a report is generated and presented to the customer.
	The Telecommunications Initiative works with the customer's contractor to obtain a quote for the work. If the customer decides to move forward with the project, the Telecommunications Initiative vendor will generate an application, collect all necessary paperwork, and submit to National Grid for pre-approval. Once the project is complete, the Telecommunications Initiative vendor will collect all invoices and final signatures and complete a post-inspection verification to ensure the measures are installed as intended. The Telecommunications Initiative vendor will submit all paperwork to National Grid and notify the customer when the incentive check is in the mail.
Customer Feedback	Initial feedback indicates that customers are appreciative of an offering customized to their needs from a vendor who has executed on this concept in other areas of the country.
Changes for 2022	The Company does not anticipate any changes in 2022.
Rationale for Changes	No changes are expected as this initiative launched recently and just started delivering audits and reports to customers in Q1 2021.

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Notes	

5.5. 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	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 provides the customer the opportunity to think long-term about their energy needs and equipment, resulting in more comprehensive savings compared to traditional energy efficiency programs. Where appropriate and valued by the customer, automated benchmarking will be available to help demonstrate the impact energy efficiency measures can have on the energy usage of the facilities.
	Colleges and Universities Colleges and universities 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 have established sustainability goals and climate action plans to reduce their greenhouse gas emissions. The Company's SEMP initiative allows enrolled universities to engage in multi-year campus energy planning and assists them in identifying comprehensive and long- term energy efficiency opportunities. The Company has SEMP agreements in place with eight colleges and universities, five of which are participating in the SEMP, and three participating through the State of Rhode SEMP as State universities.

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While the Industrial Initiative remains the most common pathway for commercial and industrial participation, the SEMP Initiative offers a longer-term, strategic engagement that is focused on achieving multi-year goals. In order to achieve success in this multi-year engagement, the customer must have energy goals and targets, dedicated personal, and organizational support. The Company has a dedicated SEMP sales lead that can assist customers in setting energy goals and receiving organizational buy-in. Currently the Company has one commercial customer participating in the SEMP offering.

Chain Restaurants

Most chain restaurants are served through the Company's large commercial programs; however, the SEMP pathway is also an option for chain restaurants that are looking to pursue multi-year engagement strategies. The Company currently has one large chain restaurant participating in the SEMP offering.

Health Care, Manufacturing, Industrial Campuses, and More

The SEMP Initiative is available to the Company's largest C&I customers, including the health care industries, manufacturing facilities, industrial campuses and more. As mentioned above, 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. The Company remains ready to work with customers on establishing goals, creating organizational buy-in, and getting the customer MOU-ready to participate in the SEMP initiative.

Implementation and Delivery

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 single measure or single year approach.

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	Typically, the MOUs include a commitment by upper management,
	the establishment of specific and aggressive energy efficiency saving targets, measurement and verification strategies to document savings throughout the target facilities, and support 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: • 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
	The SEMP offering goes 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.
	The Company currently has seven SEMP MOUs. Five are large university campuses, one is with a large chain restaurant, and one with a large commercial customer. In addition, a State SEMP has been in place since 2016. The State SEMP focuses on State facilities, including office and administrative buildings, and public universities.
Customer Feedback	One customer commented that the MOU process is streamlined and easy to work with. The Company's implementation staff work closely with participating and potential SEMP customers to continuously identify new opportunities to improve the program.
Changes for 2022	The Company is in the process of attempting to recruit two additional SEMP Customers.
Rationale for Changes	The Company is seeking to diversify its participation to include healthcare facilities.
Notes	In 2022, the Company will continue to market the SEMP initiative to colleges and universities in Rhode Island that have not yet participated in the offering. Likewise, the Company will continue to search for recruitment opportunities from highly motived industrial customers, including but not limited to chain restaurants, colleges and universities, manufacturers, health care, and cities.

5.6. 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 wastewater 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 Company provides this support as part of the State and Municipal initiative and via a SEMP.
	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:
	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.

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	 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.
	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.
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 2022	The SEMP will target a 10% reduction in energy use by the above stated facilities by 2023.
	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.

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5.7. Equipment & System Performance Optimization (ESPO)

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 helps	
	customers optimize the efficiency of their HVAC, refrigeration,	
	compressed air, and steam systems. The systems optimization may	
	include retro-commissioning (RCx), operations & maintenance	
	(O&M), and Monitoring-Based Commissioning (MBCx). This initiative	
	falls within the Large Retrofit Program. The ESPO program is a	
	means of capturing savings and may be delivered through other	
	initiatives (such as the State SEMP or Industrial Initiative).	
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 three pathways are:	
	Low-Cost Tuning offers prescriptive incentives to customers that	
	have isolated items for systems 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 RCx vendors. re-approval for implementation had	
	been required before the customer or outside party can receive an	
	incentive on the installation. The Company is developing guidelines	
	for documenting baseline conditions to enable program participants	
	to implement some Low-Cost Tune-Up measures without pre-	
	approval. Incentives are provided to sites where the baseline	
	condition and proposed upgrade are documented through a simple	
	data input, which is used to determine savings at the measure level.	
	Only selected HVAC, steam, refrigeration, and compressed air	
	measures are eligible for prescriptive incentives. Customers	
	participating in the two other ESPO pathways described below may	
	opt to apply for Low-Cost Tuning incentives, eliminating the need to	
	submit custom savings calculations.	
	Targeted Systems and Whole Building & Process Tuning offer a	
	custom RCx approach. Targeted Systems Tuning offers an in-depth	
	investigation of specific process or end-use. The Whole Building and	
	Process Tuning offers a comprehensive approach to RCx for	
	customers with a functional control system in place and electric	

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usage greater than 5,000,000 kWh annually. Investigation funds of up to \$12,000 are available for System Tuning and \$30,000 for Whole Building & Process Tuning. Incentives of \$0.17 per kWh and \$1.20 per therm of savings are offered for measures implemented through this pathway. 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 facility's annual gas consumption.

MBCx is a process intended to maintain and continuously improves building performance over time achieved through monitoring and analysis of large amounts of data. Also known as real-time energy management, this approach requires the installation of a software platform and monitoring equipment that captures and analyzes operational data from a facility's building automation system. Larger systems may continuously monitor hundreds of control points within a building. MBCx systems can provide fault detection and diagnostics capabilities, meaning building operators can find equipment that is not operating as intended due faulty programming, current settings (e.g. scheduling or setpoints), damaged equipment, or simply systems in need of maintenance. The MBCx pathway is similar to the Whole Building and Process Tuning approach in that most savings calculations are custom; however, this pathway assumes that identified measures will persist for at least three years. The current MBCx incentive is \$0.17 per kWh and \$1.20 per therm on a pay-forperformance basis. Beginning in 2022, the Company intends to begin funding MBCx set-up costs to share the risk taken on by customers adopting these systems. Through this process, the Company will also ensure an effective implementation by highly qualified vendors. For systems where the Company incentivizes set-up costs, there will be a reduced pay-for-performance rate. Furthermore, to ensure customers act on insights from the MBCx platform, customers and system implementers will be required to sign a participation agreement that obligates them to install and report savings from certain low-cost measures.

Implementation and Delivery

A customer typically begins the process for ESPO by contacting their National Grid Sales representative – or an RCx contractor may reach out on behalf of the customer. Before undertaking an ESPO project,

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Customer/Vendor Feedback	account and technical representatives work with the customer and their implementers to identify the appropriate pathway(s). Typically, a retro-commissioning consultant will complete an investigative report, the results of which are shared with the customer and used as the basis for calculating project savings. The ESPO process may also identify additional capital projects that reduce energy consumption and can secure additional incentives. The Company may also facilitate the transfer of information (potentially including electric interval data) from a controls vendor to a third-party RCx vendor or technical assistance vendor with expertise in building controls. In 2021, the Company held in-depth discussions with at least ten RCx and MBCx vendors, customers, and industry experts (including EERMC consultants) to capture feedback on current and potential offerings. These discussions are ongoing as of Q3 2021 and have thus far led to the planned changes described here. The Rationale for Changes section summarizes much of this feedback. Of note, one expert mentioned there are numerous firms
	RCx providers in the Northeast, and the existing workforce is sufficient to support the planned efforts, though training in ASHRAE
	Guideline 36 could enhance their expertise.
Changes for 2022	The Company will allow some tuning measures to be implemented without pre-approval, provided baseline conditions are documented sufficiently to withstand M&V scrutiny. A study is currently underway to determine the extent to which this is feasible at RI schools and to develop a methodology for documenting baseline conditions and calculating savings for HVAC measures commonly found at schools.
	The Company will begin funding MBCx set-up costs to mitigate risk to customers adopting these systems. Customers that take advantage of set-up incentives will receive reduced pay-for-performance rates and must sign a participation agreement (along with their system implementers) to help ensure measures identified are installed and savings are reported.
	The Company will develop an ESPO guidebook or similar resource to help standardize the process of completing and documenting RCx

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savings calculations and classifying different measure types. This should assist customers and trade allies participating in the MBCx and System and Whole Building pathways.

The Company is investigating the possibility of adding Low-Cost Tuning measures, including a CHP system tune-up as well as gas measures such as unit ventilator adjustments. This effort can only proceed if sufficiently broad savings calculations can be developed.

The Company is exploring opportunities to improve the persistence of RCx measures for customers (e.g., building operator education efforts, controls reprogramming), revisiting measure life assumptions, and seeking to better integrate ESPO with other controls offerings.

Rationale for Changes

Increasing participation in the ESPO program is a major focus in 2022. Energy Management Systems (EMS) show the second-highest savings among Electric non-lighting measures in the Market Potential Study. Although ESPO is designed to improve the performance of existing systems, MBCx and Tuning investigations very often lead to the installation of new EMS equipment or reprogramming of controls treated as EMS' for program purposes (New Construction or Retrofit, depending on the situation).

The option to waive pre-approval for tuning measures will enable building auditors/RCx agents to implement many measures in a single trip, eliminating the need for a return trip (and the associated cost and time lag).

For MBCx, set-up costs were identified as the primary barrier to broader adoption. Implementation quality is also a significant barrier. The Company is developing a set of vendor qualifications to ensure quality implementation, as well as a customer agreement that will help ensure measures identified are installed and savings are reported.

Calculating savings and classifying RCx and controls measures has posed a significant challenge for ESPO participants and created an administrative burden for program implementation staff. The guidebook will answer common questions and eliminate points of confusion.

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CHP tune-ups present a new savings opportunity. Likewise, program staff have suggested unit ventilators and other gas measures located in occupied building zones (as opposed to heating and cooling equipment located in mechanical rooms) frequently need significant tuning or repairs. This may be an excellent opportunity in schools.

The Company currently claims short measure lifetimes from many ESPO measures, limiting the lifetime benefits. The Company has identified tactics to improve measure persistence in some cases (for example, HVAC system scheduling can be improved by ensuring building operators receive proper training and by programming certain resets or functionality to ensure control sequences are not permanently overridden.) Also, numerous M&V studies in other utility jurisdictions have suggested significantly longer measure lifetimes than National Grid currently claims for ESPO measures.

Notes

The ESPO initiative captures savings from a number of technologies and end-uses identified in the Market Potential Study, including boilers (steam and hot water), waste energy recovery, refrigeration, scheduling and set point optimization, energy management systems, and rooftop units.

Savings from this initiative are spread throughout several Retrofit programs (<u>Electric</u>: HVAC, Compressed Air, and Refrigeration; <u>Gas</u>: Custom, HVAC, Retro-commissioning, and Steam Traps). MBCx systems and Tuning investigations can also identify opportunities for new controls or replacement of poorly functioning equipment, which falls within the New Construction program.

5.8. Lighting Designer Incentives (LDI)

Eligibility Criteria	LDI is offered to lighting design teams for qualifying New	
	Construction/Major Renovations or Existing Buildings Performance	
	Lighting projects.	
	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	

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construction and design community. Lighting designers cannot sell product for the project that they are receiving LDI.

Lighting designer must have at least one of the following qualifications:

- 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

This incentive goes directly to the lighting design team to fund their efforts to achieve lighting energy savings while maintaining quality lighting design.

- LDI is a sum equal to 20% of the customer lighting incentive offered for a project if project reaches Performance Lighting Tier 2
- LDI is a sum equal to 15% of the customer lighting incentive if the project reaches Performance Lighting Tier 1
- LDI is sum equal to 10% of the customer lighting incentive for all other projects.

There is a \$15,000 maximum per project.

Implementation and Delivery

Lighting designer submits LDI application for a project

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.

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.

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Customer Feedback	LDI needs to inform customers about the benefits of hiring a lighting designer.
Changes for 2022	The Company will create a one-page document that articulates the benefits of hiring a lighting designer that can be mailed, emailed, posted online to educate potential customers.
Rationales for Changes	Incentives have been recalibrated to encourage reaching higher tiers in Performance Lighting.
Notes	

6. Performance Lighting (Retrofit)

Eligibility Criteria	 Any customer with a commercial meter is eligible to participate in this initiative. All projects that qualify under this incentive must: Average a minimum of 2,000 lighting operating hours per year (before controls). 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. 	
Offerings	North America's 10th Edition Lighting Handbook or supporting	

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Tier 2 -Performance Lighting – LED Fixtures with Networked Lighting Controls System

This pathway offers an incentive of \$1.10 per gross kWh saved and must meet the following requirements -

 80% of project load must utilize a networked lighting control system, as defined by DLC. The system must be capable of energy monitoring and demand response, as defined by DLC. The customer or their representative must also provide a control narrative for the system with a minimum of two different control strategies at the project level (e.g. occupancy, daylighting, task tuning/high end trim and it must be fully commissioned with reporting. National Grid recommends that these systems demonstrate demand response capability.

Implementation and Delivery

Application Forms

 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).

Pre-Approval Requirements

- 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.

Installation and Incentive Requirements

- 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:
- o A copy of the completed and signed pre-approval application

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- o If there is a change in equipment, the customer must submit a new manufacturer's technical specification sheets ("cut sheets") for each type of eligible equipment purchased
- 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

Application Process and Requirement for National Grid Approval

- 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

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	required for the Program. In such an event, the customer must submit to National Grid the following:	
	o Completed and signed Program rebate form	
	o Original date receipts for purchase and installation of energy efficiency measures, and	
	o Any other required information or documentation within such time as Program Materials indicate.	
	 Pre- and Post-Installation Verification; Monitoring and Inspection 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.	
Changes for 2022	National Grid has worked with the consultants to the EERMC to alter incentives and requirements to encourage the adoption of luminaires and systems that offer more savings and flexibility of control. In addition, the incentives are structured in such a way that should be more transparent to vendors allowing for increased throughput. The incentives and requirements are modeled on a successful offering in Connecticut.	
Rationale for Changes	 Incentive transparency for customers and their advisors to increase program participation. 	
	 Move the market forward for luminaires and systems with additional savings and capabilities. 	
	Increase the deployment of demand responsive lighting	

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Notes	Performance Lighting may also be utilized in New Construction
	applications as well. Please see the New Construction portion of this
	attachment for more details.

6.1. Customer Owned Streetlight Equipment

	The systemer symbol LED streetlighting initiative is available to any	
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	A customer begins the process of purchasing their leased	
Delivery	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 Public Utility Commission 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, the customer must contact 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	

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	completed location listing of the LED conversions is required for the billing system updates to realize any energy consumption savings.
Changes for 2022	No changes are anticipated for 2022.
Rationale for	The majority of RI streetlight infrastructure has successfully been
Changes	converted to LED's, in large part due to the Company's efforts.
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.

6.2. Company Owned Streetlight 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 and install the lights. The energy efficiency sales representative will contact the customer and assist in the incentive application and payment process.
Changes for 2022	The Company Owned Streetlight Equipment will remain unchanged for program year 2022.
Rationale for Changes	No changes are anticipated for program year 2022.

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Currently, no energy efficiency incentive is available for the Company-Notes 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 streetlights or indicated a preference for purchasing their streetlights. Therefore, the volume of companyowned street lighting is on the decline. As a result, the number of company-owned streetlights 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. 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 streetlight will receive the energy efficiency incentive directly.

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	National Grid owns,
	equipment and is	installs, and maintains
	responsible for the	the equipment. The
	purchase, financing, and	customer requests the
	maintenance	exchange of existing or
		installation of new
		lighting
Energy Efficiency Incentive	Customer receives a one-	Customer receives a one-
	time incentive payment for	time incentive payment
	the installation of LED	for the installation of LED
	equipment (after	equipment (after
		satisfactory post-

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Distinction	Customer-Owned	Company-Owned
	satisfactory post-inspection	inspection by National
	by National Grid)	Grid)
Purchase/Lease	Customer purchases the	National Grid leases the
	equipment	equipment to the
		customer
Outreach	League of Cities and Towns,	League of Cities and
	Annual Department of	Towns, Annual DPW
	Public Works (DPW)	meeting with Company,
	meeting with Company, and	and various other
	various other meetings	meetings
Technical Support	Customer is responsible	Customer is responsible

6.3. 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.
	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. ⁴
Implementation and Delivery	National Grid engages with customers through targeted outreach, while also providing additional information via the Office of Energy Resources website. 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.
Customer Feedback	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. 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.
Changes for 2022	None.
Rationale for Changes	No changes to the Farm and Agriculture initiative for program year 2022.
Notes	

6.4. Combined Heat and Power Initiative

Eligibility Criteria	To qualify for a Combined Heat and Power (CHP) energy efficiency
	incentive, a proposed project, no matter the size, must meet the
	following conditions:
	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 effect other facility thermal.
	the recoverable heat can be used to offset other facility thermal loads and generate electricity as a by-product, (ii) using waste

⁴ http://www.energy.ri.gov/policies-programs/programs-incentives/farms.php

⁵ http://www.energy.ri.gov/policies-programs/programs-incentives/feep.php

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	,
	 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.⁶ System efficiency is calculated as Annual Useful Energy/Annual Natural Gas Input where
	Annual useful energy = Net Annual kWh*3,413/100,000 + utilized thermal output (therms)
	Annual natural gas input = CHP gas input in therms (HHV)
	 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. 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. 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.
Offerings	If a project has been shown to be cost effective, presents no capacity or reliability concerns, and has met the required eligibility criteria, it will be eligible for a non-variable incentive. An additional incentive tier will be available to CHP projects where the host customer also commits to implementing energy efficiency measures representing at

⁶ 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.

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least five percent of the site energy use or the maximum load reduction identified in the Technical Assistance Study, whichever is less. 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.

⁷ 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.

Table 4. Determination of Non-Variable Incentive Level for CHP Projects

Wasted energy, back pressure turbines, and extraction turbines	\$900 per net kW
CHP with total system efficiency ≥55% - <60%	\$900 per net kW
CHP with total system efficiency ≥55% - <60% with customer implementing energy efficiency measure equal to 5% of site energy or maximum load reduction	\$1,125 per net kW
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 ≥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 ≥60% with customer implementing energy efficiency measure equal to 5% of site energy or maximum load reduction	\$1,250 per net kW

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

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

The CHP incentive package cap from the Company will be 70% of the total project cost inclusive of the installation incentive, incentives related to gas service, present value of any performance incentive,

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

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

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

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

Implementation and Delivery

Identification and Recruitment of Qualified CHP Projects

The Company currently works with vendors and customers to identify CHP opportunities at customer locations. The Company promotes CHP systems and outlines the process for qualification and implementation

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of CHP facilities through the Company's energy efficiency programs. The Company has sales and technical staff that are the primary points of contact for customers and vendors with potential CHP projects. The Company will continue to communicate criteria for CHP assessment and will communicate to vendors so that their presentations to customers will be more consistent with Company technical assistance requirements.

Targeted Outreach and Support for Potential CHP Customers

The 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 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. Other strategies that will enhance CHP acceptance will also be considered, such as: preparing and distributing case studies, providing customer plant operator training depending on the size and complexity of the system and whether the management of the system will be outsourced, and providing easier customer access to CHP unit performance data.

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

The Company will individually review the installation of proposed incremental energy efficiency measures for customers who have previously installed CHP on site or who are adding additional energy efficiency equipment that might affect the performance of an existing CHP unit. The Company will carefully categorize and protect the benefits attributed to previously installed CHP projects, while at the same time foster any additional cost-effective energy efficiency measures that further reduce total energy use.

There are two types of project categories. The first category is "CHP Optimization" and involves measures which are installed with the purpose of increasing the output or operating efficiency of the existing CHP or other distributed generation (DG) unit; for example, the

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addition of combustion air precooling on a gas turbine CHP unit. In order to maintain compliance with ISO-NE's FCM rules, such projects will be tracked in the FCM, if applicable, as incremental output of the associated DG facilities. The second category is "Incremental EE", which includes "traditional" energy efficiency measures installed with the intent of reducing energy consumption in sites that have previously installed CHP. These measures may or may not affect CHP performance and output.

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

Scoping Study/Qualification

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

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

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

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Technical Assistance Study

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 assessment of the likely on-peak kW reduction from the CHP given the proposed nameplate rating, the net CHP output after subtracting parasitic loads associated with the CHP, projected availability based on anticipated site-specific operating characteristics, performance data on other similar units, and a greenhouse gas analysis that estimates the change in greenhouse gas emissions expected from the project and a statement that informs the customer of the state goal to reduce greenhouse gas emissions by 45% below the 1990 levels by 2030; 80% below 1990 levels by 2040; and net-zero by 2050. (On-peak kW reduction = Net Output x Availability x % Loaded.) This kW load reduction should be used in the benefit-cost screening.

As indicated in the offering section, 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.

Cost Effectiveness

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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 theses adders, the Company will provide two scenarios of the benefit cost screening for CHP systems with a net output of one MW or greater: one test that includes the economic benefits adder within the Rhode Island Test, and one test that excludes the economic benefits adder. If the scenario of the screening test for the project would not pass without the economic benefits included, the Company will provide a written and well-supported justification explaining why the economic benefits are reasonably likely to be obtained. During the project notification process described elsewhere in this section for projects of one MW or greater, if any party who has intervened in the notification dockets disagrees with the Company's justification, the matter will be set for hearing at the Commission for resolution. Other **Contract Terms and Guidelines**

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

- As part of the TA study, a minimum requirements document (MRD) will be developed. This MRD will contain engineering hardware and operational specifications that directly affect the savings estimates developed in the TA study. Compliance with the MRD will be necessary to receive rebate payments.
- All systems greater than one MW will require electric, thermal and gas metering for commissioning and monitoring of system efficiencies.
- The project must be commissioned. Commissioning is a process following installation whereby a third party verifies that the project is installed and operating as detailed in the TA study and MRD.
- The customer must sign and produce a contract for O&M services through the first planned major overhaul of the CHP unit after post installation commissioning. On-going O&M contracts for a minimum of 10 years from project commissioning are recommended.

- Customers applying for interconnection of a CHP systems must not operate the unit until they receive the authorization to interconnect from the Company.
- kW-demand savings achieved via the electric energy efficiency programs, including CHP, will continue to be reported by the Company to ISO-NE as Other Demand Resources (ODR) and the revenue generated will be used to fund future energy efficiency projects through the Company's programs.

Qualification

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

Options for a CHP proposal that fails cost effectiveness testing

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:

- 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.

Attribution of CHP Energy Savings to the Company

For CHP projects one MW or greater in size that meet the eligibility criteria, 100% of the project savings shall be attributed to the energy efficiency programs. For CHP projects smaller than 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.

Notification Process

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

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MW or greater, the Company shall submit the following documents for review by the Division:

- 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:
 - 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
- A report including a natural gas capacity analysis that addresses
 the impact of the proposed project on gas reliability; the
 potential cost of any necessary incremental gas capacity and
 distribution system reinforcements; and the possible
 acceleration of the date by which new pipeline capacity would
 be needed for the relevant area.

For any proposed CHP project greater than one MW:

- 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.

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- 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.

Even if the Division provides its opinion to the Commission that the Division supports the CHP project, the Company must file a notification with the Commission, setting forth the pertinent facts relating to the project. If (i) the Commission takes no action within thirty days and (ii) the Division or any other party has not objected to the proposed project, the project will be deemed approved. If the Division or any other party objects, the Commission will set the matter for hearing.

Customer/ Vendor Feedback

Vendors and customers provided feedback in advance of the 2021 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.

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.

Participation and Savings

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

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	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 & Carries, 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. Table 5. Pipeline of RI CHP Projects with TA Study Initiated	
	Customer Name or Company Name*	Schartner Farms
	Approximate Size of CHP (kW and Net Lifetime MWh)	13.3 MW, 311,562 Net Lifetime MWh
	Feeder	49-56-88F1
	Substation	Tower Hill Substation
	Gas Line ID	416612250
	Current Status (Scoping, Study, Notification Process, Under Construction, Post-Inspection or Commissioning)	Notification Process
	Estimated Year(s) in which the Company will claim energy savings	2022 and 2023
	*Customers and/or Companies may op in this table. If a customer or company been redacted in the table above. The confidential pipeline table without red and/or OER, if requested.	has opted-out their names have Company will provide a
Changes for 2022	There are no program changes for 2022.	
Rationale for Changes	N/A	
Notes	The Company continues to explore altersystems, such as renewable natural gas opportunities fuels.	•

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6.5. 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.

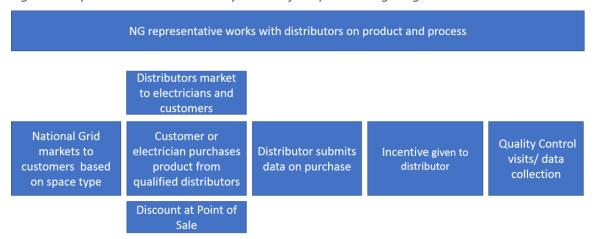
6.5.1. Upstream Lighting

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.
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 implementation team regularly talks 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 2022	The 2022 plan will maintain increased incentive support and special promotions for luminaires with controls and Luminaire Level Lighting Controls (LLLCs).
	The Company will work with its vendor and its EM&V team to try and capture more savings from LLLCs with better documentation at the distributor level. This may be part of a larger change where some measures are added and others are deleted as well as changing incentive emphasis on certain products.

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	The Company will also continue to cross market between the different Upstream Initiatives.
Rationale for Changes	Market transformation and increased savings.
Notes	The Company will continue to investigate ways to increase stocking of luminaires with controls. Information has been collected through the Upstream vendor as well as anonymous surveys developed by National Grid staff in collaboration with the appropriate members of the EERMC Consultant team.

Figure 7. Implementation and Delivery Process for Upstream Lighting



6.5.2. Upstream HVAC

Eligibility Criteria	The Upstream HVAC initiative is available to all C&I 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.

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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 2022	The 2022 plan accounts for a substantial increase in savings from this pathway compared with the 2021 plan due to high adoption in recent years. This success is a result of relationships the Upstream HVAC vendor has built with distributors and its success in promoting these measures.
Rationale for Changes	The Company has been in discussions with the Upstream HVAC vendor to leverage the network of distributors participating in the Upstream HVAC program to deliver savings from downstream measures, including early replacement of aging HVAC equipment (rooftop units, boilers, hot water heaters, etc.) with new, highefficiency equipment. The vendor's initial proposal was cost prohibitive, and some proposed measures may not be cost effective (i.e., they may have benefit-cost ratios of less than 1.0). Thus, that effort has been excluded from the plan, but the Company is exploring future opportunities to leverage this network.
Notes	The Market Potential Study (MPS) identified "the installation of a higher efficiency ASHP instead of a standard ASHP in businesses with existing ASHP (i.e. does not result in heating electrification)" as the highest-potential non-lighting Electric measure. This program uses

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exactly that approach to support air-source heat pumps (calculating savings from high-efficiency units compared to a New Construction baseline rather than a Retrofit). The program incentivizes both VRF and small-scale air-cooled heat pumps.

6.5.3. Upstream Gas

Eligibility Criteria	The Upstream Gas initiative is available to all commercial customers.
Offerings	Discounted premium efficiency water heating equipment at the point- of-sale through qualified distributors. The 2022 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 2022	No changes.
Rationale for Changes	
Notes	

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6.5.4. 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	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.
Changes for 2022	The Company has increased savings targets compared with the 2021 plan due to strong adoption in 2020. This success is due to the vendor's positive relationships with distributors and outreach efforts.
Rationale for Changes	Increasing non-lighting savings as found in the Market Potential Study (MPS).
Notes	

6.6. Lodging Initiative

Eligibility Criteria	In 2021, the Company explored the possibility of launching a future
	lodging initiative to serve hotels, motels, and resorts – as well as on-
	premise laundry at commercial laundry facilities, hospitals, colleges,
	and lodging facilities.

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Offerings	In 2021, the Company employed an external vendor to research 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. The objective of this effort was to better understand the barriers facing this industry, and to identify specific efficiency technologies.
	Having concluded that research, the Company does not currently plan to launch a full-scale vendor-driven initiative that would offer technical assistance or project management at this time, but through research process the Company uncovered two opportunities on which it intends to act:
	 Creating an incentive to support the replacement of packaged terminal air conditioners with packaged terminal heat pump (PTHP) units optimized for cold weather use.
	 Creating marketing materials targeted to lodging customers. These materials will provide information on efficiency upgrades commonly installed in hotels and motels, such as guest room energy management systems (GREMS), as well as lighting, kitchen, HVAC equipment, and demand response.
Implementation and Delivery	The Company continues to serve this market through existing sales channels. Large hotels and national chains are primarily targeted through the large C&I pathways, while small hotels may pursue the Small Business offering. Customers of all sizes may take advantage of the numerous offerings in our Upstream lighting, water heating, and HVAC initiatives.
Customer Feedback	This initiative is not currently active. Experts familiar with the sector have described the savings potential at lodging facilities, including significant opportunities to retrofit non-LED lighting, HVAC equipment, controls, and kitchen equipment. The sector was hit hard by COVID-19 and may experience continued headwinds if business travel declines permanently as remote conferencing has replaced in-person meetings.
Changes for 2022	In 2022, the Company will: (1) create an incentive to support PTHP units in 2022 along with research into customer barriers and (2) develop marketing collateral targeted to lodging customers.
Rationale for Changes	Although the concept of a vendor-driven lodging initiative has potential, and the Company has not ruled it out for future plans, its

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current focus is to expand efforts like ESPO with the potential to increase savings across all customer segments. GREMS appear to be an effective means of communicating the efficiency benefits of advanced controls to customers. The wide range of baseline conditions found among various lodging facilities, combined with the range of upgrades available, suggest that a single, bundled GREMS measure would make savings calculations extremely complex; therefore, these systems will still be incentivized through existing program pathways. On-premise laundry solutions may be considered in the future but do not currently appear to provide consistent savings in the Rhode Island market. These systems typically require a modest increase in electricity consumption to reduce gas and water consumption, which makes financial sense in some regions (especially the Southwest), but the high electricity prices, coupled with low gas and water pricing, makes this technology a poor fit for Rhode Island. **Notes**

6.7. 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 has paused the development of a commercial real estate (CRE) initiative. However, National Grid sales staff will continue to support and monitor conditions within this segment.
Implementation and Delivery	The CRE sector has specific challenges and barriers linked to the split incentive between building owners and tenants, as well as 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.
	Benchmarking
	The Company provides automated benchmarking services for commercial office spaces that allows building owners to be aware of

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	their building's 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.
	Commercial Property Assessed Clean Energy (C-PACE)
	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.
	The Company will continue to refine its automated benchmarking capabilities in 2022. 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.
Customer Feedback	The Company has heard from long-term tenants that would like to make EE improvements but cannot do so in a way that is favorable to them due to lease terms.
Changes for 2022	The Company will not develop a full-scale CRE initiative. However, a National Grid salesperson will continue to cover this market and monitor conditions in this segment.
	The Company is exploring the potential for a peer group strategy whereby local CRE owners and property managers share best practices. The Company is also investigating the most common office space energy efficiency opportunities, including lighting, HVAC, controls, and hot water measures, including retro-commissioning.
Rationale for Changes	Office space is experiencing a period of contraction as many employers offer permanent work-from-home options. This will likely lead to a consolidation of office spaces, making CRE owners reluctant to invest in their properties. This uncertainty makes 2022 an inopportune time to pursue a full-scale CRE sector initiative.
Notes	

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7. Small Business Direct Install Program

Eligibility Criteria	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.
Offerings	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.
	A Customer Directed Option (CDO) is also available. In this pathway, customers may use their own electrician to install measures while the Small Business program vendor processes and submits all necessary paperwork to National Grid.
Implementation and Delivery	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.
	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 issues that

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	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	The Company's vendor collects insights and feedback from customers. National Grid's program managers regularly check in with the vendor to capture this feedback.
	In 2022, the Company will introduce a short, formal customer satisfaction and input survey. In addition to questions typical of a customer satisfaction survey, the Company will ask optional questions about whether the customer identifies as a woman, minority, or LGBT owned business. This will allow the Company to create a baseline of customers served. This survey will be offered in English, Spanish, and Portuguese.
	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.
Changes for 2022	The Company will dramatically increase the volume of weatherization installations for customers using all types of fuels. This is possible due to a \$1,100,000 RGGI allocation to the Company from OER for this purpose that can be used in 2021 and 2022. The Company has committed to, at the request of OER, to prioritize marketing of these weatherization installations in areas hit hardest by the COVID pandemic. OER has defined hardest hit areas as Department of Health's March 30, 2021 Hardest-Hit COVID zip codes2: 02860, 02861,02863, 02904, 02905, 02907, 02908, and 02909. The Company has estimated that 1/3 of the spend and benefits will take place/accrue in 2021 with the remainder deployed and captured in 2022.
	The Company has also incorporated two equity-related initiatives. First, the Company and its vendor will deploy bilingual auditors who speak either Spanish or Portuguese – the two most widely spoken languages besides English in Rhode Island.
	Second, in addition to collecting information about who is served by this program, the Company will continue to market services to Woman and Minority Owned Enterprises (WME). This effort will

	extend beyond the WME businesses registered with the state and will seek to develop relationships with groups such as the RI Black Business Association and the RI Hispanic Chamber of Commerce to determine how to better serve these businesses. The Company's 2021 goal for increasing the ratio of luminaires and retrofit kits was not well defined. This year the Company sets the following goals to be reported on quarterly:			
	 Double the percentage of installed luminaires with one or more control strategies from 4% (Q2 2021) to 8%. 			
	Double the percentage of installed retrofit kits with one or more control strategies from 5% (Q2 2021).			
	In 2022, the Small Business vendor will educate customers on the benefits of participating in the ADR program using WiFi thermostats and provide information on how to enroll.			
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	The following studies will impact this Program: • RI-22-CE-LightMar C&I Lighting Market Characterization Study • RI-22-CX-Proc Small Business Process Evaluation will be completed in 2022.			

Small Business Direct Install – Electric Program Goals, Metrics, Budgets, Participation for 2022

			-6	mage	,	
Fuel	Lifetime	Annual MWh	Annual	Lifetime	Budget	Participation
	MWh	(Electric)	Passive	MMBtu	(\$000)	
	(Electric)		Demand	(Electric Gas,		
			Reduction	Oil, Propane)		
			kW			
			(Electric)			
Electric	64,394	9,976	904	171,528	8,969	490

Small Business Direct Install – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime	Annual	Budget	Participation
	MMBtu	MMBtu	(\$000)	
	(Gas)	(Gas)		
Gas	91,700	6,113	356	170

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8. Connected Solutions (Active Demand Response)

Eligibility	Commercial and Industrial customers
Criteria	
Offerings	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 neutral.
	Targeted Dispatch (One to eight DR events per summer)
	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.
	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 (often in collaboration with National Grid's implementation team), as well as demand charge and Installed Capacity (ICAP) tag ⁸ 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.
	Customers and CSPs respond to dispatch signals sent by the Company. Customers and CSPs are notified of events a day before the event. The

 8 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

core model remains focused on reducing demand during summer peak events, typically targeting fewer than twenty hours per summer. The program is structured to avoid interfering with the ISO-NE programs or penalizing customers for participating in both programs.

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.

Daily Dispatch (40 to 60 DR events per summer)

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 storage or thermal storage.

Implementation and Delivery

Targeted Dispatch (One to eight DR events per summer)

The estimated performance for Targeted Dispatch is lower than expected given the number of enrollments. Consequently, the Company proposed increasing the goal to 28MW-performed for 2022.

The number of enrolled MW in Targeted Dispatch has decreased since 2019. This is in large part due to customers choosing to move their enrollment from Targeted Dispatch to Daily Dispatch. This is a good trend, because Daily Dispatch generates more system benefits per MW than Targeted Dispatch offering.

Table 6. Targeted Dispatch Participation

	Historic Numbers				Estimated Number	Proposed Number
	2017	2018	2019	2020	2021	2022
Average MW of Curtailme nt over all events	11	27	32	21	23 (vs. 37 planned)	28 (20% increase)

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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.

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.

Daily Dispatch (40 to 60 DR events per summer)

The estimated performance for Daily Dispatch is lower than expected given the number of enrollments. Consequently, the Company proposed increasing the goal to 10 MW-performed for 2022.

Table 7. Daily Dispatch Participation

	Historic Numbers		Estimated Number	Proposed Number
	2019	2020	2021	2022
Average MW of			8	10
Curtailment	0	4	(vs. 4	10
over all events			planned)	(25% increase)

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.

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.

Customer Feedback

Although COVID-19 will have lasting impacts on how customers do business, most customers are expecting relatively normal operations for the summer of 2021.

Changes for 2022

At this time, there are no anticipated program changes related to Targeted or Daily Dispatch for 2022 based on performance projections from currently available data. The results from the summer 2021 performance may highlight opportunities to improve the program in 2022, however results are not expected until shortly after the filing of this Plan. The Company will share any proposed program changes

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	resulting from the evaluation with stakeholders prior to implementing changes.				
	Coordination with other Company Energy Storage programs				
	The Company is supporting an OER-led Department of Energy (DOE)				
	grant for the field validation of an Integrated Refrigeration Energy				
	Management (REM) technology for controls, active demand response,				
	and continuous commissioning in grocery stores. The objectives				
	supported by the DOE grant are to recruit grocery stores to participate				
	in ConnectedSolutions offerings using refrigeration systems yielding				
	flexible active demand reduction and demonstrate revenue and/or				
	operational savings for grocery customers.				
Rationale for	The Company's other efforts related to storage are complementary to				
Changes	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.				

Commercial ConnectedSolutions – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Active Demand Reduction kW (Electric)	Budget (\$000)	Participation
Electric	0	0	32,400	4,386.0	180

9. 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.
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 2022	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 2022

	Lifetime	Annual	Budget	Participation
	MMBtu	MMBtu	(\$000)	
	(Gas)	(Gas)		
Gas	131,220	8,803	957	729

10. Finance as an Enabling Strategy

Many customers face challenges in bringing energy efficiency projects to fruition. These may include structural limitations within a business, information overload, cultural resistance within companies, and access to capital. The Company's plan deals with the first three barriers in various ways, but this section of the plan focuses on mechanisms that can help customers afford to carry out energy efficiency upgrades and/or perceive costs differently.

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.

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10.1. 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 SEMPs)
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 2022 are illustrated in Attachment 5, Table E-10.
Relevant notes	The Company is requesting a \$2,000,000 infusion into this revolving loan fund as the Company is projecting a negative balance in this fund by the end of 2022. This includes estimated repayments made by customers in 2022.

10.2. 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 most recent Small Business revolving loan fund projections are illustrated in Attachment 5, Table E-10.

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10.3. On Bill Repayment (OBR) – Gas

Customer type	All commercial gas customers
Max loan size	\$1,000 to ~\$100,000 (may be larger for SEMPs 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	No formal credit check/ rapid approval, on bill repayment, zero
customer	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 most recent Gas revolving loan fund projections for 2021
	are illustrated in Attachment 6, Table E-10.
Notes	

10.4. 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, over \$60MM in loans closed 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 program can be found at the RI Infrastructure Bank webpage (https://www.riib.org/ebf) and the RI Office of Energy Resources webpage (http://www.energy.ri.gov/RIEBF/)
Description	The Efficient Buildings Fund (EBF) is a long-term, below-market financing option for municipalities and quasi-public agencies to complete energy efficiency and renewable energy projects. EBF is administered in partnership with RI Office of Energy Resources (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.

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2022 Actions	The Infrastructure Bank and OER will administer the program and
	National Grid will continue to provide technical, logistical, incentive
	support to municipal customers.
Notes	

10.5. 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-9.

10.6. 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	Can be structured to be cash flow positive, no personal guarantees,			
customer	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 2022	Specific deliverables will be discussed in the final draft after the			
	Company discusses this topic with the Rhode Island Infrastructure Bank			
	(RIIB) in more detail.			

10.7. 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

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11. Other Enabling Strategies for Customer Engagement

11.1. 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.

11.2. 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:

11.2.1. 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.

11.2.2. 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

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Company will continue to work closely with OER to support property owner and tenant access to usage data.

11.3. Enabling Technologies

11.3.1. 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° F to 145° 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.

11.3.2.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.

11.3.3. CozyTM 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%. Non-energy benefits include increased asset value, improved tenant/occupant

 $^{^9\} https://www.radiatorlabs.com/wp-content/uploads/2016/08/CaseStudy-ColumbiaUniversity.pdf$

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comfort, reduced emissions, and improved safety. One college in Rhode Island has had good results. This measure is available as a custom project.

11.3.4. Aeroseal

Aeroseal 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.

12. Marketing to Commercial and Industrial Customers

In the first half of 2021, the Company continued the "Open Up to New Possibilities" campaign, which launched in July of 2020 after a brief Marketing pause and as a response to the current situation for many businesses because of the Covid-19 pandemic. As businesses were still feeling the impacts of COVID, the strategy was to continue to relate to and understand what business customers are going through as they are navigating their new normal and plans for re-opening. 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).

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In the second half of 2021, with businesses more focused on re-opening as a natural evolution to the "Open up to new possibilities" campaign, the Company launched "More Opportunities in More Places." This campaign is anticipated to continue in 2022. The theme is focused on the idea that after nearly a full year of just trying to stay in business, we want to help you get back to business with the resources, financing and expertise you need.

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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 any campaign, National Grid surveys our Business Customer Council and utilizes the insights from 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. 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		
 Smallest customers based on usage Most environmentally conscious, interested in green-related products Among the most open to purchasing from NG 	 Small customers Interested in tools to manage accounts Skew to Real Estate The least open to purchasing from NG 	 Medium customers Interested in bill and usage information, financing options Skews to Retail/Food The most open to purchasing from NG 		

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No Frills	★ Big Business		
 Medium customers Most interested in the basics of customer service and emergency response Among least open to purchasing from NG 	 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 2022 campaign plans, paying close attention to the appropriate messaging and tone as business customers recover from the pandemic, 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 "More Opportunities in More Places" campaign will serve as an overarching campaign that provides a unified message for large commercial customers, small business customers and multifamily customers. In 2022, 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 2022, the Company will continue to leverage earned media/PR as a truly integrated part of our marketing campaign, an initiative that kicked off in 2019 (see Figure 10). This includes media relations and influencer engagement and National Grid will continue this strategy moving forward.

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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 al 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 2022, the Company will continue to focus on the key strategies that have proven successful in the past. It 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.

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

- Promoting planned Workforce Development activities, potentially via social media.
- Developing fact sheets to explain program focus areas such as ESPO.
- Developing case studies demonstrating successful efficiency projects highlighting specific sectors, namely for lodging and commercial real estate customers. This builds on a 2021 effort to produce a series of case studies on projects completed at the Quonset business park.

13. Commercial and Industrial Measures and Incentives

Table 8. Electric Programs

	Electric Programs						
		Net Annual kWh	Incentive /	Total			
Program	Subprogram	Tracker by	Net Annual	Incentives	Shared Costs		
		Subprogram	kwh	incentives			
	D2 CAIR	272,520	\$0.22	\$60,000			
	C&I Codes	274,550	\$0.00	\$0			
	D2 Upstream Food Service	605,600	\$0.66	\$400,000			
	D2 HVAC Prescriptive	596,266	\$0.28	\$167,900			
	Upstream Heat Pump - Ductless	75,053	\$1.11	\$83,189			
	Upstream Heat Pump - Packaged	104,240	\$1.73	\$180,502			
	Upstream HVAC Air Conditioners	823,994	\$0.39	\$319,585			
	Upstream HVAC Controls	40,992	\$0.16	\$6,413			
	Upstream HVAC ECM Pump	40,992	\$0.45	\$18,374			
	Upstream HVAC VRF	278,606	\$0.87	\$241,937			
	D2 Lights	2,439,962	\$0.27	\$663,000			
Large Commercial	Motors and VFD	124,527	\$0.35	\$43,750			
and Industrial New Construction	Upstream HVAC Refrigeration	8,935	\$1.17	\$10,450			
	Comprehensive Design - Custom	527,245	\$1.06	\$559,550			
	Compressed Air - Custom	1,225,921	\$0.55	\$678,930			
	HVAC - Custom	2,937,300	\$0.75	\$2,200,845			
	Lighting - Custom	397,198	\$0.42	\$165,000			
	Motors & VFD - Custom	247,873	\$0.31	\$76,713			
	Process - Custom	1,127,686	\$0.46	\$514,315			
	Refrigeration - Custom	323,054	\$0.62	\$199,959			
	Other - Custom	116,277	\$0.55	\$64,396			
	Program Planning &	,		. ,	\$291,923		
	Administration				. ,-		
	Marketing			İ	\$306,751		
	Sales, Technical				\$1,546,086		
	Assistance & Training						
	Evaluation & Market Research				\$432,863		

	Electric Programs					
Program	Subprogram	Net Annual kWh Tracker by Subprogram	Incentive / Net Annual kwh	Total Incentives	Shared Costs	
	СНР	-	-			
	Custom: SEM	459,260	\$0.03	\$13,778		
	EI HVAC	1,144,586	\$0.37	\$426,419		
	Custom: Street Lighting	717,503	\$0.34	\$241,500		
	EI Light: Prescriptive	17,181,203	\$0.43	\$7,354,458		
	El Light: Upstream A-lines and Decoratives	340,875	\$0.15	\$49,500		
	El Light: Upstream Exterior	403,750	\$0.71	\$287,500		
	El Light: Upstream G24 G23, MR Lamps, PAR	204,525	\$0.44	\$90,000		
	EI Light: Upstream High/Low Bay	3,962,560	\$0.20	\$805,000		
	El Light: Upstream Linear Fixture w/Controls	794,682	\$1.28	\$1,020,000		
	El Light: Upstream Linear Luminaires	861,520	\$0.57	\$488,400		
Large	El Light: Upstream Retrofit Kits	739,704	\$0.24	\$178,000		
Commercial	El Light: Upstream Stairwell	10,562	\$1.16	\$12,200		
and Industrial	EI Light: Upstream TLEDs	587,400	\$0.11	\$63,000		
Retrofit	Motors and VFD	2,089,620	\$0.37	\$780,000		
	Compressed Air - Custom	513,284	\$0.25	\$125,806		
	HVAC - Custom	2,016,016	\$0.87	\$1,748,450		
	Lighting - Custom	7,865,709	\$0.50	\$3,908,170		
	Motors & VFD - Custom	184,651	\$0.53	\$97,479		
	Process - Custom	425,109	\$0.40	\$168,314		
	Refrigeration - Custom	527,918	\$0.83	\$437,946		
	Other - Custom	101,518	\$0.57	\$57,420		
	Program Planning & Administration				\$732,937	
	Marketing				\$239,517	
	Sales, Technical Assistance & Training				\$4,814,148	
	Evaluation & Market Research				\$816,261	
	Lighting	8,305,575	\$0.76	\$6,343,353		
C	Lighting controls	762,234	\$1.28	\$974,586		
Small Business	Non-Lighting	907,885	\$0.68	\$619,239		
Direct	Program Planning & Administration				\$226,132	
Install	Marketing				\$244,014	
	Sales, Technical Assistance & Training				\$306,009	
	Evaluation & Market Research				\$256,040	

Program	Subprogram	Demand Response kW Goal	Incentive / Net Annual kW	Total Incentives	Shared Costs
	Daily DR Resources	-	-		
	Peak Shaving DR (MW)	459,260	\$0.03	\$13,778	
Commercial	Program Planning & Administration	1,144,586	\$0.37	\$426,419	
Connected Solutions	Marketing	717,503	\$0.34	\$241,500	
	Sales, Technical Assistance & Training	17,181,203	\$0.43	\$7,354,458	
	Evaluation & Market Research	340,875	\$0.15	\$49,500	

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Table 9. Natural Gas Programs

Gas Programs									
Program		Net Annual MMBtu Tracker by	Incentive / Net Annual	Total					
	Measure Groups	Subprogram	MMBtu	Incentives	Shared Costs				
	Boilers	2,859	\$71	\$203,406					
	CODES AND STANDARDS	358	\$0	\$0					
	Combo Boiler/DHW	864	\$135	\$116,670					
	Non Boiler Heating	529	\$72	\$38,270					
	COND WATER HEATER 94%MIN 75-300	575	\$76	\$43,607					
	and above								
	COOKING-COMBO OVEN 1								
	COOKING-CONVECTION OVEN 1								
	COOKING-CONVEYOR OVEN 1								
	COOKING-FRYER-1000		4	4					
	COOKING-COMBO OVEN 1 - Upstream	610	\$17	\$10,589					
Large Commercial and Industrial New Construction	COOKING-CONVECTION OVEN 1-	1,658	\$42	\$69,092					
	Upstream	244	617	64.242					
	COOKING CONVEYOR OVEN 1- Upstream	244	\$17 \$24	\$4,243					
	COOKING CRIDDLE 1 Unstream	13,676 105	\$24 \$17	\$332,412 \$1,819					
	COOKING PACK OVEN 1 Unstream	1,753	\$17 \$17	\$30,427					
	COOKING-RACK OVEN 1- Upstream COOKING-STEAMER-1000- Upstream	387	\$17 \$17	\$6,726					
	WATER HEATER - Indirect Upstream	82	\$17 \$44	\$3,648					
	Water Heaters 94 and above	435	\$57	\$24,724					
	Custom	25,557	\$25	\$650,997					
	Custom	3,263	Up to 75%	\$59,330					
	Water Heating Boiler - 94% TE	3,233	of Total	,					
			Resource						
			Cost						
	Program Planning & Administration				\$118,453				
	Marketing				\$152,115				
	Sales, Technical Assistance & Training				\$1,063,545				
	Evaluation & Market Research				\$216,512				
	Controls	18,868	\$20	\$381,524					
	Custom: RCx	3,962	\$16	\$63,000					
	Behavior / Training	2,778	\$0	\$0					
	DHW	667	\$15	\$9,706					
	HVAC	17,224	\$17	\$296,193					
Large Commercial and Industrial Retrofit	Prescriptive Steam Traps	9,652	\$10	\$93,149					
	Custom: General	81,123	\$17	\$1,385,555					
	Custom: SEM	4,133	\$30	\$124,051					
	Program Planning & Administration				\$199,241				
	Marketing				\$334,243				
	Sales, Technical Assistance & Training				\$1,590,552				
	Evaluation & Market Research				\$165,605				

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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				\$32,885				
	Evaluation & Market Research				\$758				
C&I Multifamily	Air Sealing_MF	1,020							
	CUST NON-LGT_MF	7,669							
	Faucet Aerator_MF	56							
	Insulation_MF	10	Average Incentive based on						
	Pipe Wrap (Water Heating)_MF	42	measure mix						
	Programmable Thermostat_MF	437							
	TSV Showerhead_MF	149							
	WiFi thermostat gas_MF	61							
	Participant_C&I	729	\$1,037	\$756,000					
	Program Planning & Administration				\$28,085				
	Marketing				\$22,416				
	Sales, Technical Assistance & Training				\$144,241				
	Evaluation & Market Research				\$2,476				