2022 Residential and Income Eligible Energy Efficiency Solutions and Programs

Table of Contents 1. EnergyWise Single Family (Electric and Gas)......9 2. 3. 4. 5. 6. 7. Residential High-Efficiency Heating, Cooling, and Hot Water (Electric and Gas)......53 8. 9. Residential ConnectedSolutions 58

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 1 of 73

1. Overview

2022 is a pivotal year for residential energy efficiency programming. The retail residential lighting program concluded at the end of 2021 with lighting opportunities continuing only in the direct install programs during the year. 2022 builds on the transition away from lighting by concentrating on longer energy savings benefits in the residential portfolio and equitable access to the programs for all Rhode Island customers. The goal of the 2022 Plan is to support the transition of inefficient homes to energy efficient homes by maximizing the potential of weatherization, heating/cooling/hot water systems, efficient appliances, and Wi-Fi controls. Attainment of the energy efficiency savings goal is supported through high-efficiency equipment and well-trained energy experts and service providers. This vision is for all homes to be well weatherized, have safe and efficient heating, cooling and hot water systems, encourage customers to see their home as a comprehensive system, and transform the residential new construction industry to a Zero Net Energy market.

The detailed program descriptions provided in Attachment 1 offer a snapshot and evidence of how programs are continuously evolving, building from one Plan year to the next. It shows how high-level strategies are translated into specific actions and activities that secure savings for customers; help to contextualize specific program innovations and enhancements described only briefly in the main text of the Annual Plan; and demonstrate how key strategies cross multiple program designs and end use targets while cross promoting other programs.

The detail in this attachment is designed to allow stakeholders, the Public Utilities Commissioners (PUC) and staff, and other interested parties to delve deep 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

The Company has focused heavily on weatherization, efficient heating, and equity across all residential programs. The elevation of these three critical areas reflect stakeholder priorities and opportunities identified during the planning process. 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), the Division of Public Utilities and Carriers (the Division), Technical Working Group Stakeholders, our vendors, and customer feedback. There are electric heat opportunities introduced in more programs and enhancements that make participation in multiple programs easier or more attractive, and reduced barriers to adoption of comprehensive measures.

Equity and workforce development objectives have been applied across all residential programs, resulting in program design shifts and investment prioritization to ensure all Rhode Islanders have

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 2 of 73

access to program opportunities and that resources exist to promote energy efficiency to all Rhode Islanders. Of particular note, the Income Eligible Services (IES) program is working closely with the Company's discount rate program to introduce newly enrolled customers on the discount rates to the income eligible program where 100% of energy upgrade costs are covered. To support development of high growth, long-term, energy jobs that support the shift to high performance homes and technologies, air source heat pump (ASHP) design and installation training and Zero Net Energy New Construction training are planned to help expand the workforce to support the emphasis on deeper home energy upgrades.

Residential and Income Eligible Programs

The Company offers the below overarching programs to provide comprehensive services to two regulatorily defined sectors, market rate and income eligible:

Table 1. Residential and Income Eligible Programs

Market Rate Residential Sector	Income Eligible Sector
EnergyWise Single Family	Income Eligible Single Family
Multifamily	Income Eligible Multifamily
Residential New Construction	
Home Energy Reports	
ENERGY STAR® Lighting	
Residential Consumer Products	
Residential High Efficiency Heating	
and Hot Water	
Residential Connected Solutions	
Residential Consumer Products	
Residential High Efficiency Heating	
and Hot Water	

This attachment provides detailed descriptions of the residential energy efficiency and active demand programs, including detail on the market (customer/building types) targeted, eligibility requirements, offers, the implementation and delivery design, and new items for 2022, along with the rationale for changes in a table format.

The Company will continue to focus on demonstrations and assessments; please refer to Attachment 8 for a detailed scope and list for each demonstration and assessment proposed for the 2022 Energy Efficiency Plan.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 3 of 73

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:

Eligibility Criteria (i.e.	This section describes which customers and/or building types are eligible for
Customer/Building Type)	participation in the program or initiatives.
Offerings	This section describes the offers available to customers under the program or initiative. It can include technical assistance, incentives, design support, verification services and financial offerings. This section also describes the various pathways by which a customer or building can participate in a program or initiative.
Implementation and Delivery	This section describes the process by which the Company engages the customer with energy efficiency programs and offerings.
Customer Feedback	Customer feedback can be received by the Company in various ways; via an implementation vendor, direct feedback from the customer, via surveys conducted by the Company.
Changes for 2022	The section captures the changes proposed in the year stated.
Rationale for Changes	Captures the rationale for the changes proposed in the planning year.
Proposed Upcoming Evaluations	Evaluation information can be found in this section at the program level. Initiatives like the Grocery Initiative or the Industrial Initiative are typically not evaluated. The measures included in these initiatives are evaluated as part of larger evaluations for the programs. Hence at the initiative-level tables you will not see this "Proposed Upcoming Evaluations" section.
Notes	Additional notes related to the program, customer, offerings etc.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 4 of 73

Electric Program Goals, Metrics, Budgets, Participation for 2022

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

Gas Program Goals, Metrics, Budgets, Participation for 2022

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

The below Figures 1-8 compare the distribution of the residential and income eligible sectors' energy savings goals when measured in annual savings compared to lifetime savings. The lifetime metric captures the long-term energy savings whereas the annual metric shows the first-year savings only.

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

² For information on the metric used to measure participation by program, please reference the main text, section 2.6.

Figure 1: 2022 Planned Distribution of Lifetime MWh Goals for Residential Electric Sector

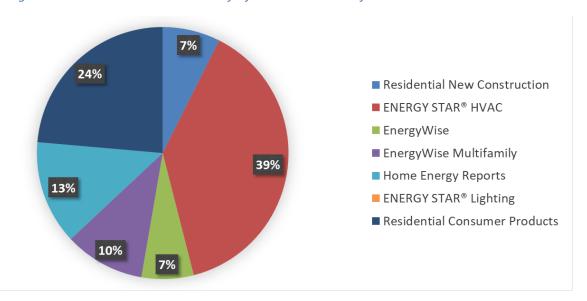


Figure 2. 2022 Planned Distribution of Annual MWh Goals for Residential Electric Sector

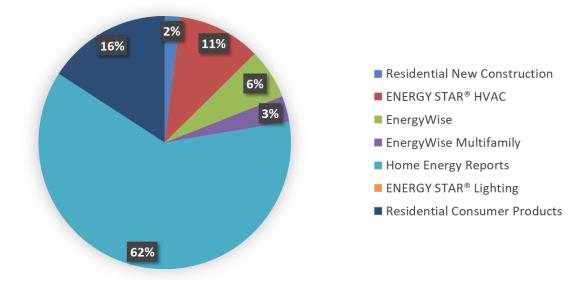


Figure 3. 2022 Planned Distribution of Lifetime MMBtu Goals for Residential Gas Sector

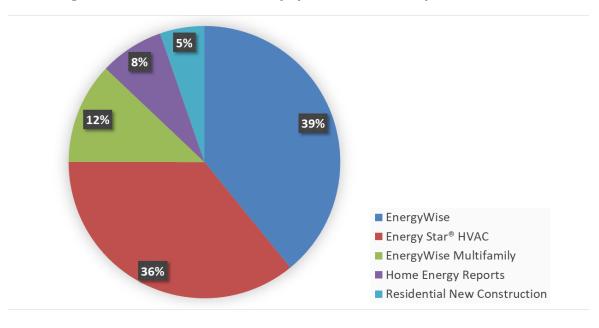


Figure 4. 2022 Planned Distribution of Annual MMBtu Goals for Residential Gas Sector

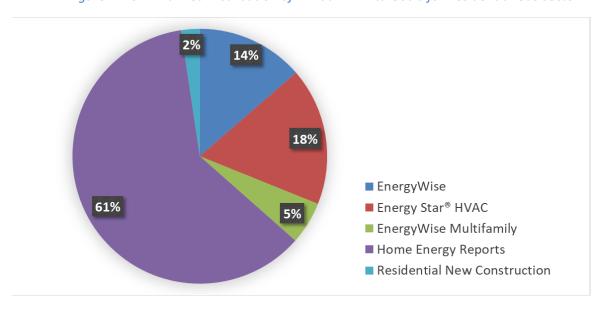


Figure 5. 2022 Planned Distribution of Lifetime MWh Goals for Income Eligible Electric Sector

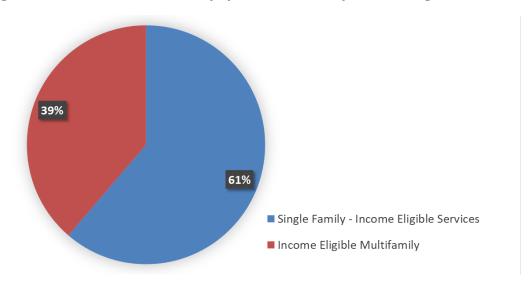


Figure 6. 2022 Planned Distribution of Annual MWh Savings for Income Eligible Electric Sector

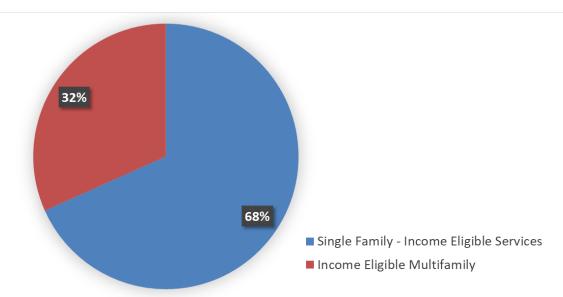


Figure 7. 2022 Planned Distribution of Lifetime MMBtu Goals for Income Eligible Gas Sector

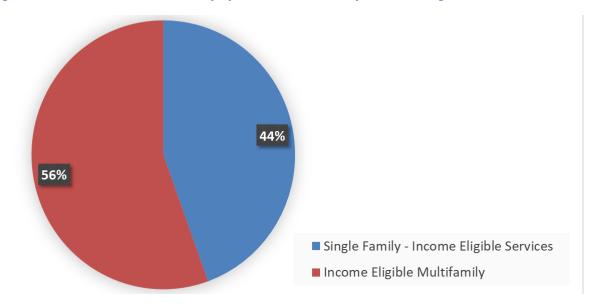
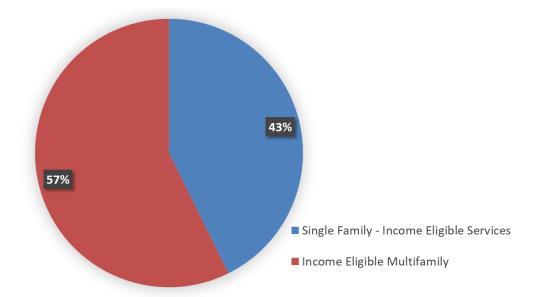


Figure 8: 2022 Planned Distribution of Annual MMBtu Goals for Income Eligible Gas Sector



2. EnergyWise Single Family (Electric and Gas)

Eligibility Criteria	EnergyWise is the flagship in-home comprehensive energy efficiency offering for all Rhode Islanders in single family residences (defined as one to four units) that are not candidates for Income Eligible Services. All market rate customers with either an electric or gas National Grid account can participate. Homeowners, renters, and landlords are all encouraged to participate. Customers with any heating fuel type, including delivered fuels, are served as long as they have a National Grid account.
Offerings	EnergyWise offers comprehensive energy efficiency services using a whole-house approach to identify energy saving opportunities in all major energy systems and uses, including heating, cooling, water heating systems, appliances, lighting, water saving measures, plug loads, and building envelope leaks. In 2021, EnergyWise was awarded an ENERGY STAR® Partner of the Year, Sustained Excellence in Energy Efficiency Program Delivery for the sixth consecutive year. 12,000 home energy assessments are planned for 2022. EnergyWise provides in-home services in two phases: home energy assessment and weatherization.
	Home Energy Assessment
	Historically, an in-home, no cost energy assessment was the entry point for customers into the Energy <i>Wise</i> whole home suite of energy efficiency services. The in-home assessment has been refined over many years to focus on helping educate participants on the home's energy use and providing them a comprehensive roadmap of opportunities for energy upgrades. During the in-home assessment, an energy specialist(s), a Building Performance Institute certified building analyst, will upgrade lighting, provide advanced power strips, and upgrade water saving opportunities where opportunities exist, and customers are amenable. Applying a comprehensive, whole-house approach, the energy specialist will evaluate all major energy systems including the heating and water heating systems, appliances, lighting, water saving measures, plug loads, and tightness of the building envelope (the roof, the basement, and the walls).
	Virtual Home Energy Assessment (VHEA)
	In 2020, the COVID-19 pandemic prompted innovation with in-home energy assessments transitioning to a virtual experience (Virtual Home Energy Assessment, VHEA). Customers participating in the VHEA receive the energy saving devices traditionally installed by the energy specialist during the in-

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 10 of 73

home visit through the mail. Customers are able to self-install the products or they can be installed when contractors are present during the weatherization process. The virtual assessment provides multiple options to communicate energy savings information depending on customer familiarity with smart phone and video calling technologies. A video call can be used to guide the customer around their home so an energy specialist can assess the home's energy use. If the customer is not able to use video, the specialist will have the customer send in pictures (before or after the VHEA) of important areas such as the attic, heating and water heating system, and basement crawl spaces while walking through the assessment by phone.

In 2022 customers will be able to choose whether to have an in-person assessment or a VHEA. Approximately two-thirds of customers have selected the in-person assessment over the VHEA. Customer satisfaction scores from post assessment customer surveys show consistent satisfactions scores between in-person and VHEAs, with a slightly higher rating for in-person assessments.

Online Home Energy Assessment (OHEA)

For customers beginning their energy education journey or those who may not have time for or are reluctant to have an in-home assessment, the online home energy assessment captures the current state of the customer's energy usage and identifies opportunities for energy efficiency upgrades. If a customer takes the online assessment and determines they are interested in a virtual or in-person assessment, those opportunities are available to the customer.

Online home energy assessment tool v2 is set to launch at the end of 2021. The OHEA consists of a 5-minute online survey to collect information on the customer's home profile and provides disaggregation results, top recommendations, and savings tips back to the customer. Through promotion within emailed Home Energy Repots (HER) and QR codes on print HERs, customers will be automatically directed to the authenticated version of the online assessment tool, and data collected will feed back into the behavior platform for more accurate and personalized normative comparisons and recommendations across the platform, within home energy reports and the Company's customer facing Web portal. Customer

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 11 of 73

responses on heating and water heating system age and insulations levels are used as leads for energy efficiency programs.

Weatherization

The energy specialist's primary focus during an in-home assessment is to examine the opportunity to increase the home's building envelope through air sealing (decreasing air leaks), duct sealing, and increasing insulation, collectively referred to as "weatherization." Weatherization is the most cost-efficient way to improve a building's performance. It also offers customers a healthier and more comfortable home that will passively remain cooler in the summer and warmer in the winter, helping reduce energy bills for customers. Many health and safety considerations are addressed when weatherizing, such as adding attic ventilation or using mechanical fans to ensure a healthy air exchange rate.

The recently completed Energy *Wise* evaluation, as well as additional research from prior assessments, identified a number of pre-weatherization barriers, generally health and safety or physical barriers, which prevent the continuation of weatherization until remediated. At this time, Energy *Wise* does not pay for remediation of the pre-weatherization barriers, nor are they included in the weatherization scope of work to be implemented by program contractors. The Company does not manage the process of hiring contractors to complete remediation. The Company recognizes, however, that if a customer learns that additional work not included in the weatherization scope is required before weatherization can proceed, customers may become confused or irritated. Therefore, the program provides a \$250 incentive to customers that certify that pre-weatherization barriers have been remediated by appropriate licensed professionals. Additionally, pre-weatherization costs for knob and tube wiring, vermiculite, and asbestos can be included in the HEAT Loan.

Energy Action Plan

An Energy Action Plan is presented to the customer at the end of the assessment. The Energy Action Plan gives the customer a clear roadmap for upgrading their home, including a recommended path to weatherization (air-sealing, insulation, and duct sealing) and associated costs, including the company incentive and customer costs. The Energy Action Plan also provides the customer a streamlined path to engage a qualified independent insulation contractor to perform the weatherization work. The

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 12 of 73

Energy Action Plan also details other potential energy upgrades and additional incentives the customer may be eligible for, including heating and hot water systems. Opportunities for financing the customer share of the weatherization (as well as other upgrades) are also provided at this time. If a customer accepts the Energy Action Plan recommendations and wants to move forward with weatherization, the customer signs a contract with the Lead Vendor. The work will then be assigned to a weatherization contractor who will contact the customer directly to schedule a date for weatherization work.

Connecting Customers with Additional Opportunities

The EnergyWise assessment process also identifies opportunities to engage the customer in additional energy saving programs including HVAC, Consumer Products, and Connected Solutions. During home visits, energy specialists capture the age and condition of heating systems, the heating fuel type, and verify the number of stories in the home. This data is used to identify if homes are good candidates for high efficiency heating, cooling, and hot water systems such as air source heat pumps and heat pump water heaters. Homes meeting optimal building design with current electric heating and/or water heating systems are provided information about enhanced incentives for air source heat pump systems and automatically referred to the HVAC program for follow up.

The EnergyWise assessment can identify if a home has central air conditioning and a smart thermostat, which allows the Company to offer these customers the opportunity to participate in the ConnectedSolutions program. To provide customers a full picture of all their clean energy opportunities, the energy specialist also performs a quick assessment survey to determine whether the home is a good candidate for solar. Additionally, the National Grid marketplace offers Energy Sage solar quotes at

https://ri.home.marketplace.nationalgridus.com/content_solar_energy.htm

Moderate Income Customers

In 2022, the Company proposes serving moderate income customers, defined as households that fall at 80% or below the state median income. Customers that are interested in the moderate income offering will receive 100% weatherization incentives once they are income qualified by the

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 13 of 73

third-party income verification vendor. The quick income qualification allows the Company to direct customers that qualify for the Income Eligible rate to customer service for additional bill savings that can be realized on monthly bills.

During the end of 2021, the Company received RGGI funds from the RI Office of Energy Resources dedicated to moderate income customers receiving 100% weatherization incentives. This offering has the same household income threshold, at or below 80% of state median income, but differs slighting in that customers can participate in the RGGI moderate income offering through a self-attestation of household income. It is the Company's aspiration to have the RGGI funds committed or disbursed to customers during 2021. If RGGI funds are still unspent in 2022, the RGGI offering will be promoted to the Rhode Island Department of Health's March 30, 2021 Hardest-Hit COVID zip codes³ and the new moderate income offering will be promoted to remainder of Rhode Island customers.

EnergyWise will continue with the 100% landlord weatherization incentive which encourages landlords to weatherize homes by removing any direct costs for the landlord. Renters then benefit with lower energy bills and a more comfortable home.

Homeowners with less than perfect credit scores can take advantage of the lender of last resort, which makes 0% Heat Loans available to these customers.

Implementation and Delivery

EnergyWise is delivered through a Lead Vendor model where the Lead Vendor provides assessments and schedules weatherization projects with the Independent Insulation Contractors that provide weatherization services (air sealing, duct sealing, and insulation). The Lead Vendor provides program oversight of all weatherization work. The Lead Vendor model facilitates consistent assessments for customers and allows the program to incorporate testing of new concepts as well as generating leads for other programs. The RI program design has consistently been recognized as best in class with six years of ENERGY STAR® Partner of the Year awards for program implementation.

³ https://covid.ri.gov/press-releases/governor-mckee-ridoh-announce-additional-vaccination-appointments-expanded-efforts

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 14 of 73

A customer begins the home energy assessment process by either calling, emailing, or mailing an expression of interest and the initial in-home or virtual assessment, based on customer preference, is scheduled. The assessment generally takes 1.5 - 2.5 hours with an energy specialist(s) going through the home with the customer. This provides the customer one-onone education about how their home is currently operating and helps them understand how recommended upgrades will improve their efficiency and comfort. At the completion of the assessment, participants decide whether to take action on recommended energy upgrades. When a customer agrees to proceed with recommended weatherization, the customer is referred to an insulation contractor. The insulation contractor will then contact the customer to schedule a date to install the weatherization upgrades. The customer can apply for 0% financing through the Heat Loan to finance the customer costs associated with the upgrade(s). Financing the energy upgrades requires selecting an approved lender and applying for the loan. For customers with less than perfect credit, there is a lender that specializes in financial coaching and approves Heat Loans for energy upgrades.

Prior to the actual weatherization, communication occurs with the customer to ensure their home is prepared for the activity and that an adult will be at home in case questions arise. To allow the insulation contractors to efficiently air seal and insulate, customers must provide clear access and remove all personal items from the attic, basement, and exterior walls. Before the insulation contractor closes the job, the Lead Vendor provides a quality assurance check of all weatherization work to verify that all work has been completed. This process minimizes return visits and complaints from customers.

In response to COVID-19, the Company fast tracked and implemented a Virtual Home Energy Assessment. The virtual assessment follows a similar education and information capture process as the in-home assessment with a "live" virtual energy specialist. The virtual assessment generally takes one hour and is conducted by phone or video call. The specialist may request information from the customer in advance of the virtual assessment such as pictures of their attic, lighting fixtures, the exterior of their home, and heating and hot water systems.

Additionally, an online energy assessment, which is available 24-hours a day, allows a customer to learn more about their home's energy usage at their own convenience. The online assessment takes five minutes to

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 15 of 73

complete and immediately provides insights on what items use the most energy in the home, energy saving tips, and opportunities for energy incentives. The customer can also decide if they would like to sign up for a virtual home energy assessment after the online assessment. The online assessment also provides the Company upgrade opportunities for heating and hot water systems. **Customer Feedback** Customers are surveyed after both the initial assessments and subsequent weatherization work. Customers consistently rank their satisfaction at or above 97% out of 100%. Customers are generally pleased with the upgrades provided during the assessment and impressed with the professionalism and care taken by the insulation contractors A sampling of customer feedback from customer satisfaction surveys follow: **Program Suggestions** "I wish you were into helping replacing windows. I had to put plastic up on windows this winter." "I wish the program included doors and windows. Those are the biggest issues in my home" Professional and Knowledgeable "We had a very professional and very polite inspector, we also learned a lot from him." "Your representative arrived timely. He was professional and knowledgeable. He was thorough and friendly. He answered all of my questions. He provided us with a report in a timely matter. His recommendations were reasonable and easy to understand." **Great Program** "We were very satisfied with the work done, the inspections and the explanation that was given to us. The cleanup inside our house was great as well. However there was insulation/sealing materials left all over our yard. It was snowing so we believe it may have been covered up by the falling snow so the team didn't see it, but since the snow melted we have been finding and picking up various materials

from the yard. This was a danger to our pets. Overall it was a

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 16 of 73

great experience. We wanted to flag this so you are aware for future customers."

 "This is a great program. Reducing home heating cost is a great way to reduce CO². Using less energy for cooling too. Waiting time was 9 months to get insulated. I understand construction so I knew what was happening."

Worth the Wait

- "The timeline for work was extended out much more than I had anticipated due to the pandemic, but it was very much worth the wait! The insulation has made an enormous difference in my home!"
- "Took longer than expected due to masonry issues in attic space that had to be addressed before insulation work could be completed. Insulation work was begun in the late fall/early winter, but could not be completed until months later in April because the masonry work had to wait until the outside temperature was consistently high enough. So, many unexpected delays but the work did eventually get completed and the crew was always very polite when they were here. Cleaned up the copious dust well but left black handprints on the ceiling hatch to the attic space. Work was only recently completed so cannot judge whether it had any noticeable positive effects yet--maybe after next winter we'll have a better sense!"

Changes for 2022

Supporting equity by adding a reporting element for Independent Insulation Contractors that are sub-contractors in the EnergyWise program. The lead vendor will report on the number of minority and women owned businesses working within EnergyWise so a baseline can be established.

The program will test a **concierge service for electric resistance heated homes to facilitate the design and right sizing of a heat pump electric heating system installation**. The Lead Vendor will calculate the sizing and work with HVAC contractors to schedule the installation of the new system. The customer benefits by having one point of contact for both the weatherization and HVAC installations.

The Lead Vendor will continue **workforce development upskilling** that supports Energy*Wise*. Historic trainings have included sales support for

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 17 of 73

promoting energy efficiency and identifying opportunities for electric heat. In 2022, to support the concierge service above, the training may focus on Manual J calculation, the protocol used to determine proper heating and cooling sizing for a residence, and optimal design for heating and cooling with electric heat pumps.

EnergyWise will offer a 100% weatherization incentive for moderate income customers, defined as households at or below 80% state median income. Weatherization was identified by the Market Potential Study to have high savings potential and this offering will provide opportunities for more customers to participate in weatherization.

In an effort to optimize **deeper energy upgrades**, Energy*Wise* will partner with the gas HVAC program to promote an enhanced incentive when a customer does both weatherization and efficient gas equipment upgrades. The enhanced incentive model, developed for the Air Source Heat Pump (ASHP) heating system upgrade, has become a best practice as the customer is required to do weatherization prior to the ASHP installation to improve thermal envelope efficiency to properly size the heating system. In 2022, the Company will provide customers engaging in efficient gas heating system upgrades with a voluntary path to also weatherize their homes. To encourage the weatherization action, the Company proposes an 25% additional incentive on the weatherization work.

The Company is **jointly sponsoring research with other utilities** through ESource and ICF to advance the evolution of incentive design through the Incentive Project. This will be the second year of a three-year research project that will explore how lessons from academic research can be applied to consumer behavior, pricing, and discounting theory to influence incentive design. One aspect of the research will view incentives and financing opportunities holistically.

Rationale for Changes

Equity reporting for minority and women owned businesses supporting Energy *Wise*: 2022 will establish a baseline of minority and women owned business reporting for contractors that provide weatherization services for the program. Once a baseline is established, the Company can develop next step actions to support these businesses.

Concierge service for electric resistance heated homes: For some customers time and program complexity can be a significant barrier in progressing through energy efficiency upgrades. The Company will work

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 18 of 73

with electrically heated homes to perform a Manual J calculation for electric heat pump systems based on rightsizing systems after weatherization. The customer will have one primary point of contact for their efficiency work that coordinates all the activities.

Facilitating connections to HVAC and/or electrical contractors: Upwards of 45% of all home energy assessments have some type of pre-weatherization barrier that prevents the customer from moving forward with the weatherization project. If the customer does not have a contractor with whom they are comfortable working, it can take additional time to obtain multiple quotes for a remediation project. To simplify the process, the Program will facilitate connections to HVAC and electrical contractors that resolve the most common types of pre-weatherization barriers such as a clean and tune up of the heating system and certification of knob and tube wiring by an electrician. Both of these barriers can generally be remedied by the \$250 pre-weatherization funding. The Company will also coordinate with the multifamily program to identify contractors that remediate other pre-weatherization barriers such as asbestos, lead, and vermiculite. The alleviation of pre-weatherization barriers was also a recommendation from the recently completed Energy *Wise* evaluation.

Workforce development upskilling: One benefit of this program is that customers receive consistent assessments by skilled energy specialists. By continually upgrading skills required to successfully communicate the benefits of energy efficiency, the Company works with the Lead Vendor to identify skill enhancements that supports Energy *Wise* success.

100% weatherization incentive for moderate income customers: This supports equity priorities shared with our stakeholders by enabling consumers most likely to face financial barriers to benefit from energy efficiency. The Company saw a strong increase in weatherization in 2020 during the COVID-19 pandemic when the 100% weatherization incentive was offered, which helped increase the number of customer conversions. While conversion to weatherization is generally around 35% - 40%, conversion increased to 65% with the 100% incentive during the 2020 COVID-19 pandemic. A primary barrier to achieving even higher conversion rates even with an 100% incentive are pre-weatherization barriers. The cost of remediation can exceed the overall total cost of weatherization depending on the type and number of barriers that exist at the residence.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 19 of 73

	Expanding the incentive to moderate income consumers helps to achieve
	both savings and equity priorities while reducing costs for weatherization.
	Deeper energy upgrades build upon the best practice of weatherizing a home during sizing of air source heat pumps for electric heat. This new practice will encourage customers to weatherize when replacing gas heating equipment so optimal sizing will occur. The pairing of weatherization with efficient heating system installation captures two major opportunities for energy efficiency upgrades within a home.
	The Company is excited to participate in the Incentives Project research project. Many industries have sophisticated methodologies for incentive design and the goal is to learn from these best practices and see how they can be applied to the energy efficiency area.
Proposed Upcoming Evaluations	Secondary Heat – Follow-up Research will be conducted in 2022 as well as an evaluation on Moderate Income NEI (non-energy impacts).
Notes	

EnergyWise Single Family – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	13,472	2,789	424	414,190	\$15,766	12,000

EnergyWise Single Family – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	478,550	20,850	\$8,646	1,761

3. Multifamily (Electric and Gas)

Eligibility Criteria

Eligible multifamily program participants are defined as the following:3

- Buildings with five or more dwelling units
- Properties consisting of four or more one- to-four-unit buildings that meet both of the following requirements:
 - Are within a reasonable geographical distance from each other, or to a five plus unit building, and
 - o Are owned by the same individual or firm.

Both market-rate and income eligible multifamily properties are subject to the above multifamily eligibility requirements for coordinated services. For the income-eligible properties, co-payments for energy efficiency services and measures may be waived.

The income-eligible multifamily sector is defined by properties that meet one of the following criteria:

- Owned by public housing authorities or community development corporations;
- Receive affordable housing tax credits or other types of low-income funds/subsides from the state or federal government; or
- Consist of building units where a majority of customers (over 50% of occupants) qualify as income-eligible customers (receive utility service on the A-60 Low-Income rate and/or have a household income of less than 60% of the Area Median Income).

Moderate income customers (customers that are at 80% or below the state median income) are included in the eligibility criteria of the Income Eligible Multifamily Program as they are represented in other units of an income eligible multifamily property that may not meet the eligibility criteria for low-income customers. For example, if a multifamily property has a total of 20 units, and 12 of which qualify as income eligible, the moderate customers could make up the remaining 8 units of the property and therefore be eligible to participate in the Income Eligible Multifamily Program offerings. All customers who have an electric account with the Company are eligible, regardless of their heating fuel type. A multifamily property may be eligible for services and incentives under both residential and commercial programs. As an example, a building with 20 dwellings that is electrically sub-metered (20 residential accounts) with a commercial electric account for common areas and one commercial gas account serving a central heating/hot water system will likely qualify for incentives through both Multifamily and the Commercial & Industrial Multifamily programs. While this adds a layer of complexity for the Company, it is critical that the Company maintain accounting via these various program budgets to ensure

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 21 of 73

	equity for all customers, funding energy efficiency through the energy efficiency program charge. In contrast, the customer will not need to experience this added layer of complexity and will instead receive a consolidated incentive for all efficiency work completed at the site. The Programs' lead vendors are well versed in managing projects these types of multifamily dwellings and help the customer navigate the process of participating in both programs.						
Offerings	The program offers comprehensive energy services for multifamily customers including:						
	 Energy assessments, Incentives for heating and domestic hot water systems, cooling equipment, lighting, appliances and air source heat pumps. Coordination for all services will be offered for multifamily properties that participate in the Market-Rate and Income Eligible Multifamily Programs. 						
Implementation and Delivery	The Rhode Island Multifamily Program has a single lead vendor that utilizes a network of Rhode Island sub-contractors to serve all customers, including income eligible customers. A customer can learn about the Company's Multifamily Program offerings in a myriad of ways ranging from communicating directly with the lead vendor, the National Grid website, direct mail and print marketing, and digital marketing campaigns. If the customer is interested in starting the process, the customer would go through the following steps:						
	 A customer learns about the Multifamily Program through the following, but not limited to, channels: Marketing efforts lead by the Company and/or lead vendor The lead vendor directly contacting the customer iii. The Company's website iv. Word-of-mouth A customer contacts the multifamily lead vendor to express interest in receiving an energy assessment. A "pre-assessment" is performed over the phone or in person by the lead vendor to determine if the customer is eligible for participation in the program based on the aforementioned criteria. An energy assessment is then scheduled with the facility's authorized representative. An energy assessment is completed by an energy 						
	specialist to identify ways to conserve electricity, natural						

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 22 of 73

- gas, or delivered fuels. This is coordinated by the lead vendor.
- 6. The lead vendor then conducts post site screening to identify which measures pass a benefit/cost (B/C) screening on a project level basis. If a measure does not pass, customers can still include it in the project without an incentive. Projects may participate in the Multifamily Program as long as the overall program remains costeffective.
- 7. A final proposal is then presented to the customer that includes the scope of work, costs, available incentives, and an estimated time frame. The customer is made aware of financing options available to them as well. If the customer decides to proceed with the project, installation work is then scheduled.
- 8. Once installation work is completed, a final walk through with the customer is done. A completion report is then created and presented to the site's authorized representative and signed off on. A customer survey is also conducted once work is complete.

Customer Feedback

Post project customer surveys are conducted and have high satisfaction results. Surveys are scored on a scale of 0 to 100 with such questions as:

- On a scale of 1 to 5, how satisfied are you with the energy efficiency services you received?
- On a scale of 1 to 5, would you recommend this service to family, friends, and/or colleagues?

The most recently available average survey score for 2020 is 86.

The following includes customer quotes leveraged from the lead vendor's 2020 customer satisfaction survey results:

"I was VERY impressed with the contractors. They were all very professional, personable, and informative. I feel they did a thorough job, kept me informed every step of the way and were very neat and clean in the way they did their work. They REALLY appreciated the fact that I followed directions and emptied my entire closet for them to get up in the crawl space. I appreciated they recognition of my effort."

"I wasn't sure how to work the shower head, so the worker came back the next day to show me."

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 23 of 73

"I felt an almost immediate improvement in heat retention after attic was insulated. I was surprised when I found a positive change in heating bill which also resulted in a lesser electric bill."

"The workers were helpful and knowledgeable, and when they left you would have never known they were here. Already seeing changes in the time it takes to warm up the condo when we arrive."

Changes for 2022

Relaunch a tiered incentive offer. A tiered incentive model encourages building owners and facility managers to include more residential unit owners and rental units in multifamily projects. Offering an additional incentive for the participation of additional residential units benefits the program as a whole and helps increase customer participation and energy savings. From Q3 2020 through Q1 2021 the Company launched its first iteration of a tiered incentive to customers. The offering increased interest in the multifamily program however due to COVID-19 implications, participation did not increase as much as anticipated at the time. However, due to positive customer feedback, the Company plans to relaunch this opportunity and restructure incentives as appropriate to increase program attractiveness to customers. For example, one of the goals of this offer is to motivate customers to move forward with deeper, more comprehensive measures. Since deeper measures typically include a copayment (specifically for the Market-Rate Multifamily Program), the offer will help to reduce copayments if the customer moves forward with a more comprehensive contract. This approach also helps the customer to realize, ideally, all available savings opportunities. The Company plans to work with the lead vendor to review and relaunch the tiered incentive offer in early 2022 to ensure a strong pipeline.

Increase contractor participation. In 2021 the Company tested a bring-your-own-subcontractor approach with Air Source Heat Pumps. This approach will provide customers with greater choice, open energy efficiency project opportunities to more contractors which may drive down project costs, improve the quality of installations, and increase participation among all multifamily facilities. The Company will consider expanding this subcontractor model to other aspects of the Multifamily Program in 2022. Success will be based on customer satisfaction and an overall increase in ASHP installations in 2021.

Implement recommendations from Multifamily Impact and

Process Evaluations. The Company received results from the Impact and Process Evaluation of the Market Rate and Income Eligible Multifamily Programs in September 2020. The process evaluation examines customer participation, vendor participation, and overall program processes. For 2022, the Company plans to utilize the results

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 24 of 73

of this evaluation to make several improvements to the program design of the multifamily programs.

- Firstly, the Company will work with its multifamily lead vendor to increase facilitation of health and safety barrier remediation by providing customers with more information about how to complete remediation, how to locate a local remediation contractor, and financing options available.
- Secondly, the Company will set clearer program expectations with customers by updating content and redesigning the website landing pages and program brochure. (See marketing and outreach enhancements below for additional details)
- Thirdly, the company will work with the lead vendor to identify whether a long-term role of virtual energy assessments in multifamily buildings is feasible.

Leverage market research studies to better identify and segment Multifamily customers. Based on the findings of the forthcoming RI Multifamily Census Study and Non-participant Study, both estimated to be completed by the end of Q1 2022 (see Upcoming Evaluations below), the Company plans to implement targeted outreach and marketing efforts to newly identified customers representing large apartments, five to 20 unit small- and medium-sized multifamily owners, newly identified income eligible properties, and other properties that have not been served by the programs to date. As research becomes available prior to the completion of the studies, the Company will have the opportunity to incorporate insights to enhance the program design and implementation of the market-rate and income eligible multifamily programs. Specifically, the Company will leverage research pertaining to how tax incentives could impact landlord and property owner participation in the Multifamily Program. The Company has included this topic in the on-going Non-Participant Study and will also commit to further researching how a tax incentive program for landlords and property owners could equitably increase program participation and better serve renters within the Multifamily Program. This research will first include the exploration of similar programs throughout the country to understand the program design, funding, and overall benefits.

In addition, the Company continues to leverage other market research as it becomes available. For example, in 2021 the Company will be selecting a vendor to lead qualitative customer interviews with residential customers based on their experience and satisfaction with the energy efficiency program(s) they participated in. Similarly, the Company also lead research in early 2021 to understand the type of marketing channels and messaging that will resonate most with customers as customers regain a sense of normalcy following Covid-19. This research helps the Multifamily Program

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 25 of 73

to ensure offerings are aligned with customer needs. For example, property managers who were interviewed in early 2021 noted that any out-of-pocket expense for energy efficiency upgrades was something they could not justify at the time as their primary focus was to receive regular rent payments from tenants in the near-term. With this information, the Company sees value in exploring solutions specifically for landlords and property managers to help offset project copayments.

Research customer motivators. The Company has incorporated questions with regards to the potential value of tax incentives into the Nonparticipant Study that is underway and estimated to be completed in Q1 2022. Including questions pertaining to potential motivators such as tax incentives in this research will help the Company to understand and identify potential new drivers and motivations for increasing customer participation in multifamily programs in future years. If customer feedback deems tax incentives to positively impact participation, the Company will further explore this opportunity and work with external stakeholders to determine the feasibility of creating this type of opportunity for multifamily owners. Additionally, based on stakeholder feedback, the Company is exploring how Non-Energy Impacts (NEIs) such as health and safety benefits could increase program attractiveness and increase participation. For, example, the Company sees value in leveraging the research from a recent Health and Safety NEI Study Massachusetts recently completed (more detail provided below in "Upcoming Evaluations").

Improve customer financing options. Current options for financing of energy efficiency upgrades in multifamily buildings are limited to individual condo owners through the HEAT Loan program, with no option for landlords looking to finance upgrades to their renter-occupied property. In 2022, the Company will explore an option that will provide financing options for landlords and/or property managers of both commercially and residentially metered multifamily buildings. This improvement would make it easier for owners to fund larger improvements to renter-occupied buildings, and therefore achieve deeper energy savings. Specifically, a financing option could increase multifamily participation within the five-20 unit building segment if the upfront co-pay cost were able to be financed over time.

Training & Upskilling: As the Multifamily Programs shift from inexpensive, direct install measures to more complex and expensive measures, energy assessors will need increased sales acumen to help customers understand the value of energy efficiency upgrades. As part of its increased focus on workforce development, the Company will continue to invest in relevant professional development opportunities for energy assessors in the Multifamily Programs. The Company believes these

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 26 of 73

trainings should increase the amount of deeper energy savings measures adopted by multifamily participants. In 2021, The Company organized a workforce development training for 10 auditors from the lead vendor to attend. The subject matter of the training provided individuals with sales training when discussing deeper measures with customers and the benefits associated when installing the measures. Based on the positive feedback from our lead vendor, this training will continue to be offered as a refresher training on an annual basis to our Lead Vendor and other potential sub-contractors, as appropriate. Below are quotes provided from the Program's lead vendor based on their experience attending the sales training:

"Mark (the instructor) packs a lot of information in these seminars and bullets the key take-aways from each lesson. I have found it to be productive and worthwhile as I have worked towards incorporating these strategies in my day-to-day outreach efforts."

"I have re-listened to them for topics regarding the promotion of MF initiatives for overcoming client objections and strategies to help prospects look at other ancillary benefits of taking advantage of the utilities offerings"

"It is very helpful that we can access them anytime. I find the lessons engaging and something to add to my toolbox when out in the field. They do not try and cram too many things into 1 lesson which I like about the training, easier to retain."

"I have found Mark Jewell's Selling in 6 sales training to be very helpful and user friendly. I can listen to one of these short courses on my way to work or during a break at the office on my phone. Mark packs a lot of information in these presentations of which I can usually pull out 1 of 2 ideas that I can incorporate in my outreach efforts to the multi-family clients we serve. What I like most is that it's easy to follow and beneficial across all departments and positions making anyone who listens a better spokesman for promoting the utilities EE services offered each time we interact with our clients and prospects."

Additional Workforce Development training will be considered and offered throughout the program year. Recognizing training may benefit all residential programs, The Company will coordinate across programs to ensure Workforce Development training is offered to all lead vendors, Sub-contractors, etc. as needed.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 27 of 73

Marketing and outreach enhancements. In 2020 and 2021 the Company co-branded marketing collateral with the lead vendor following the Company's co-branding guidelines. The Company's marketing team collaborated with the lead vendor's marketing team when developing customer collateral for the Tiered Incentive pilot. The Company sees value in leveraging a co-branding approach moving forward with the program's lead vendor, especially for piloted offers to customers.

Additionally, adopting a market segmentation approach based on the analysis from the Multifamily Census, the Company sees value in enhancing its Multifamily and Income Eligible Multifamily marketing and outreach efforts in 2022 with the goal of creating collateral specifically for large apartments, small and medium five-20 unit buildings, trade allies, unit owners, and income eligible properties with the goal to offer customers deeper transparency and clarity of program offerings based on the building type.

In an effort to engage the Multifamily and Income Eligible Multifamily target with a customized approach, we are exploring different tactics that provide opportunities to offer relevant content in a more personalized way. For 2022, we are planning to create a custom content hub that is connected to an industry specific publication. Content hubs offer a unique opportunity to showcase our industry expertise and segment the content based on specific audiences and building type making a personalized user experience. Continuing with the connection to industry publications, we want to explore industry specific events targeting property owners/managers that we can sponsor and also take part in as a speaker or as part of a panel. Complimenting the aforementioned tactics, we want to refresh both the Multifamily and Income Eligible Multifamily landing pages. The refresh is a critical component to the customer journey and continues to provide an opportunity to customize the experience for the different target of customers and meet their desire for more information.

The company will work with the lead vendor to identify customer(s) that may be interested in having a case study developed based on their experience as a participant in the Multifamily program and/or Income Eligible Multifamily program. The goal of the case study will be to highlight the customer journey when going through the program(s), the benefits of the program, and savings the customer realized by participating in the program (both energy and cost savings). The case study is a way to highlight program successes which will aim to resonate with prospective customers in Rhode Island. The case study will be posted on the Company's website and infused into the program's 2022 marketing collateral as appropriate.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 28 of 73

Finally, the Company will provide the lead vendor with scripts in the case property owners have questions about the Company's role around potential building code issues. The Company will also revisit co-branding marketing with the lead vendor and will consider more prominent Company placement with the goal to increase customer trust, ease, and ultimately increase program participation.

Program evolution. The Company will continue exploring ways to assist customers to overcome pre-weatherization barriers. Specifically, the Company will work with the lead vendor to create a step-by-step resource including a list of program allies and/or contractors that can perform the necessary pre-weatherization work needed to be completed for a customer to be able to participate in the Company's Multifamily Program. The Company will work with the programs' lead vendor to determine the most effective way to provide this resource to customers. Additionally, given the lighting market's transformation, 2022 will be the last year lighting savings can be claimed through the Multifamily Programs and as such, the Company will explore emerging technologies that could bring cost effective electric savings to the program that go beyond savings opportunities currently offered through the program. The Company is examining a variety of technologies to serve a range of multifamily customers and building types. For example, some large apartment buildings may benefit from building monitoring-based commissioning (MBCx), similar to the MBCx pathway of the ESPO program. Some MBCx service providers specialize in serving the unique needs of multifamily buildings and occupants, providing energy, water, and comfort benefits. Other buildings with old steam heat systems may benefit from radiator enclosures, which can save significant energy and increase occupant comfort for poorly balanced systems. Further, the Company anticipates findings from the ongoing 2021 Pre-Fab Whole House Energy Refurbishment Assessment will have some findings relevant for the Multifamily Program. It is prudent for the Company to explore emerging technologies such as the ones noted above in order for the Company to continue to meet its savings goals. For example, in 2019 lighting made up 18% of the Multifamily Program's total net annual savings across all fuel types.

Rationale for Changes

From 2018 through 2020, the Multifamily Program's energy savings goals have been challenged due to a rapid decline in lighting opportunities and reduced opportunities in large multifamily buildings due to market saturation.

Annual participation data for 2012-2019 also indicate that the multifamily sector programs, particularly market rate electric and gas and, to a lesser extent, income eligible electric, are approaching market saturation. From

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 29 of 73

2012-2019 in market rate multifamily, 41% of gas customers and 47% of electric customers were repeat participants, compared with 8% in gas and 13% in electric for EnergyWise Single Family. In Income Eligible Multifamily during the same period, 21% of gas customers and 31% of electric customers were repeat participants, compared with 6% in gas and 21% in electric for Income Eligible Single Family.

In order for this program to meet its goals in 2022 and beyond, in the program must continue to focus to include both large apartment buildings along with condos and smaller (5-20 unit) apartment buildings. It is also critical that the program be able to transition from a reliance on energy savings from direct install measures to more comprehensive energy retrofits. The changes proposed in this plan focus on these important changes to the multifamily market as well as overall customer experience and process improvement.

Upcoming Evaluations

Multifamily Census Study: In 2021 the Company went out to bid and selected a vendor to undertake a census of all multifamily properties in Rhode Island, using best available data to both understand where these properties are located, their ownership status, whether they are likely to be income-eligible or market rate, and whether they have already been served by the Multifamily Program. After examining best practices from the Massachusetts Multifamily Census Study, the Company determined that the building stock in Rhode Island varies enough from that of Massachusetts to merit a separate study. Moreover, the Company will improve upon the research techniques of the Massachusetts study to yield the most relevant data to both understand Multifamily Program market penetration and identify additional targeted outreach opportunities to customers who have not yet participated in the program.

Nonparticipant Study: In 2021 the Company went out to bid and selected a vendor to execute a Nonparticipant Study. The objective of the Nonparticipant Study is to provide in-depth research to characterize customers that have not participated in National Grid's Rhode Island residential programs, assess barriers to their participation, and identify opportunities to engage them. The qualitative research will include characterization of customers, exploring barriers of participation, and understanding best communication channels to reach customers. The Nonparticipant Study will help the Company to understand how landlords, property managers, and tenants (both owner-occupied and renters) can be better engaged and served through the Multifamily Programs. The feedback from these qualitative interviews will be incorporated into the Company's marketing and outreach strategy and the Company will also review what

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 30 of 73

program design elements could be enhanced to improve customer ease and ultimately increase participation.

Non-Energy Impact Study: The objective of this study is to quantify and monetize the health and safety-related NEIs attributable to improvements in the energy efficiency of income eligible multifamily buildings. The study looks into the monetization of valuing the impacts of weatherization services on program recipients by calculating money saved, or the dollar value of costs avoided, due to changes in health issues and household budgets resulting from weatherization. The initial findings show successful monetization of NEIs occurred for arthritis, thermal stress (cold), home productivity, and reduced fire risk. Although this study was focuses primarily in Massachusetts, there are learnings that apply to Rhode Island's income eligible multifamily buildings and as such the Company sees value in utilizing resources efficiently to apply learnings of this study to the Income Eligible Multifamily program in Rhode Island once the results of the study are finalized. The final results of the study are expected to be released in August 2021.

Market Rate Multifamily – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	20,783	1,424	143	96,255	\$3,271	3,600

Market Rate Multifamily - Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	147,064	8,279	\$1,489	4,000

Income Eligible Multifamily – Electric Program Goals, Metrics, Budgets, Participation for 2022

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 31 of 73

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	24,309	1,538	49	108,858	\$3,536	3,600

Income Eligible Multifamily – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	273,085	14,700	\$2,949	3,150

4. Income Eligible Services (Electric and Gas)

Eligibility Criteria	The Income Eligible Services (IES) Program serves Rhode Island		
	homeowners, renters, and landlords, who have a National Grid account and		
	meet the any of following criteria:		
	 Household income equal to, or less than, 60% of Rhode Island's State Median Income Levels which are set each program year⁴ or enrolled in National Grid's fuel discount rate plans, Electric A-60 rate and/or Gas 11, 13 rates⁵. Customers enrolled in the Low-Income Home Energy Assistance Program (LIHEAP)⁶, also known as "fuel assistance". Homeowners and renters who live in a one to four unit building with either an electric or gas National Grid Discount Rate account can participate, including customers with delivered fuel heat (oil, propane, wood, or coal) if they have an electric account. Additional eligibility criteria, including the 50% rule,⁷ shelter and group home eligibility, renter eligibility and repair or replacement eligibility are available in the RI WAP/IES Operations Manual. All 		
	criteria adhere to 10 CFR 440 requirements.		
Offerings	IES consists of two, no-cost ⁸ , in-home or virtual services to increase comfor in the home and decrease a customer's energy costs. Appliance Management Program (AMP) Assessment		
	 The energy specialist educates the homeowner or tenant about their energy bill and monthly usage; assesses the home and learns about the day-to-day activities that consume energy in the home; discusses ways the customer can save energy and money, educates the customer to properly operate energy efficient equipment and how to identify signs that indicate if weatherization or heating system replacement is needed. 		

⁴ http://www.dhs.ri.gov/Programs/LowIncomeGuidelines.php.

⁵ https://www.nationalgridus.com/RI-Home/Bill-Help/Payment-Assistance-Programs

⁶ https://www.benefits.gov/benefit/1572

⁷ Customers that are not on the income eligible rate but live in a two- to four-unit building where more than 50% of the units are income eligible are also eligible to receive weatherization and health and safety services. This exception is referred to as the "50% rule".

⁸ 100% incentive via the systems benefit charge (SBC) that funds all National Grid's energy efficiency programs. Customer incurs no cost for audit, weatherization or equipment replacement.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 33 of 73

- Installation of instant energy savings measures such as energy efficient LED bulbs, advanced power strips, water saving measures (faucet aerators and low-flow showerheads) and thermostats.
- Evaluation of existing appliances: refrigerator, freezer, window air conditioning unit(s), clothes washer and dehumidifier to determine energy efficiency and eligibility for a no-cost replacement with an energy efficient appliance model.
 - Replacement of eligible existing inefficient appliances (including delivery and installation)⁹.

Weatherization and Heating System Assessment

- An industry-certified energy specialist conducts a comprehensive assessment of the building envelope and heating and cooling systems including visual and equipment-required inspections, infrared camera thermal imaging, combustion safety testing of heating system, energy efficiency testing of heating and cooling systems.
- Air sealing, duct sealing and insulation upgrades in attics, walls and basements.
- No-cost replacement of eligible heating or cooling systems if they
 are determined to be inefficient or unsafe. Applicable to all existing
 heating/cooling systems: electric, gas, oil and propane.
- If home has existing electric resistance heat, the customer will be offered to replace it with energy efficient air source heat pumps (ASHP) that provide heating and cooling.

Virtual/Remote AMP Assessment

In 2020, the COVID-19 pandemic prompted innovation with virtual/remote AMP Assessments allowing some program benefits to be delivered virtually. These virtual/remote assessments will remain as an option in 2022 for customers who prefer this service. The virtual assessment provides multiple options for an energy specialist to communicate energy savings information depending on customer familiarity with smart phone and video calling technologies. A video call can be used to guide the customer around their

Income Eligible Services (Electric and Gas)

-

⁹ All appliances are purchased/supplied through a central organization, SMOC, a nonprofit agency, to ensure that all delivery personnel meet National Grid's security and liability criteria, and all appliances meet IES Program requirements, warranty calls are handled expeditiously and properly documented and non-efficient appliances are removed and recycled safely and properly.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 34 of 73

home so an energy specialist can assess the home's energy use. If the customer is not able to use video, the specialist will have the customer send in pictures (before or after the virtual AMP) of important areas such as the attic, heating and water heating system, and basement crawl spaces while walking through the assessment by phone. Customers participating in the virtual/remote AMP Assessments receive the energy saving devices traditionally installed by the energy specialist during the in-home visit through the mail. The virtual AMP serves as a pre-assessment for the weatherization services to identify opportunities and barriers before sending a weatherization team to the site. Customers who choose the virtual AMP are sent no-cost energy efficient LED bulbs, power strip and faucet aerators and they are able to self-install the products or they can be installed by the energy specialist during the weatherization assessment.

In 2021 customers were able to choose whether to have an in-person assessment or a virtual assessment. Based on customer preference, about 40% of IES customers participated in the virtual AMP assessment in 2021.

Implementation and Delivery

Program Delivery:

- IES Program is administered through a Lead Vendor (LV) that is responsible for managing the implementation of IES work through the six Rhode Island geographically-based Community Action Program (CAP) Agencies. In addition, the LV is engaged with all customers as they conduct post-inspections when jobs are complete for 100% of the customers.
- The CAP Agencies serve as a trusted entity where income eligible customers can obtain essential resources within their respective community.
- The primary point for customers to enroll in the IES Program is through the CAP Agencies as they provide income verification and comprehensive resources for income eligible customers.
- Other channels for enrollment in the IES Program are:
 - Low-Income Home Energy Assistance Program (LIHEAP);
 - Community Expos;
 - Consumer Advocate appointments; and

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 35 of 73

- National Grid's Customer Service Center¹⁰.
- The IES Program collaborates with the State of Rhode Island
 Department of Human Services (DHS) Weatherization Assistance
 Program (WAP)¹¹ and the Low-Income Home Energy Assistance
 Program (LIHEAP)¹² to create synergy between the programs, which improves outcomes of all the programs.
 - Leveraged Funding: The IES Program benefits from leveraging LIHEAP funds, resulting in more customers being served. The amount of funds leveraged is approximately 25% of total customer incentive benefits for weatherization and heating system replacements. The LIHEAP funds also help pay for the remediation of non-energy related health and safety improvements, that if not remediated, would prevent a customer from receiving weatherization and/or heating system upgrades, i.e., roof repair and/or replacement, knob and tube removal, glass repair/replacement and carpentry. See at end of section
 - Figure 8,
 - .
 - •
 - •
 - Figure 9,
 - Table 2 below for illustrative examples that represent 2012-2020 funding sources, allocation of funding sources, and services provided with funding sources, respectively.
 - Starting in 2021, WAP (DOE) funding became available for leveraging IES funding for IES energy efficiency measures.
 - DHS provides training and equipment to weatherization auditors.

¹⁰ (1-800-322-3223)

¹¹ overseen by the U.S. Department of Energy. http://www.dhs.ri.gov/Programs/WAPProgramInfo.php

¹² overseen by the U.S. Department of Health and Human Services. https://www.benefits.gov/benefit/1572

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 36 of 73

- DHS provides the IES Program with important operational data including demographics, participation, amount of DHS funding leveraged with IES Program funds, and customer data for those on fuel assistance (LIHEAP), but not the National Grid discount rate.
- CAPs provide the full suite of energy efficiency services including:
 - o Income-eligibility verification
 - Customer education regarding energy and cost savings opportunities
 - Energy assessments
 - Installation of instant energy savings measures
 - o Recommendations for energy savings measures
 - Coordination of home performance/HVAC contractors and appliance vendors that install weatherization, heating (space and hot water), window air conditioners and appliance measures.
 - If the CAP Agency determines they cannot complete their pipeline of weatherization jobs, the CAP will refer the job to a third-party entity to do the weatherization. The LV works closely with the CAPs to regularly review weatherization pipeline and timeliness of job completion The referred jobs will get accounted for in the referring CAP Agencies participation and job completion goals.
- Key Performance Metrics (KPIs) are tracked to measure/improve consistency of Program delivery as well as drive performance of the CAPs. KPIs include: timeliness of administrative reporting, monthly/year to date spending compared to goals, participation numbers for AMP, electric & gas weatherization and heating system installations and cost.
- The IES Program is marketed through the Program's marketing specialist as well as cross marketed at Community Expos, via the Consumer Advocates dedicated to the RI IES consumers, and the Company's call center.
- Quarterly IES Best Practices meetings are held with the Company, the Lead Vendor, the CAPs, DHS, program vendors (i.e., lighting vendor, appliance delivery vendor), or speakers to address a pertinent topic.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 37 of 73

Monthly engagement of the Company, the Lead Vendor, Executive Directors of the CAPs, and DHS to review the overall performance of the IES Program and coordination of best practices across the CAPs. On-going customer feedback and communication. **Customer Journey:** A customer begins the process for a no-cost home energy assessment by contacting (call/in-person) their local CAP Agency to submit their information to determine if they meet the income eligibility requirements for participation in IES. After the CAP Agency verifies income eligibility, the CAP will schedule a no-cost AMP or virtual AMP and/or Weatherization/Heating System assessment. In some cases, the AMP and Weatherization/Heating System assessments are separate due to the customer's past assessments, renting vs. owning, time availability or the CAP Agency's availability of two-person assessment teams. In 2022 the CAPs will continue a process using two-person teams where applicable to provide all energy assessment services in one visit. Energy education is provided to the customer regarding the preand post-energy assessment process, opportunities to save energy, processes for receiving appliance or heating/cooling system upgrades and/or weatherization. If needed, health and safety services will be provided including replacing smoke and CO detectors if non-functioning or expired, clean and tune heating systems, and address conditions such as mold before the EE work is able to be completed. The CAP Agency will schedule all necessary follow-up services for insulation, air sealing, appliance and heating/cooling system replacements. All services and appliance and heating/cooling system replacement are provided at no cost to the customer. Customer receives a "comment card" to provide their feedback on all aspects of their journey through the IES Program. Customer Feedback In 2020, the IES Program began a new post-installation survey for weatherization and heating system services to complement the existing AMP Assessment customer survey.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 38 of 73

To collect timely feedback from customers, following the AMP energy assessment as well as heating system and weatherization services, customers are provided with a pre-stamped customer feedback card. To date in 2021, 100% of customers who responded were satisfied with the IES services (compared to 95% in 2020), 100% of customers who responded were satisfied with the improvements to their homes (compared to 96% in 2020), and 98% of the customers who responded were satisfied with the professionalism of the CAP employees (compared to 100% in 2020), (2021 n=41).

The Lead Vendor provides a tabulation of the survey results, and the anonymized data is presented at the IES Quarterly Best Practices meetings and the Executive Director meetings. Discussing the data as a whole at the IES Best Practices meeting allows the opportunity to create solutions if problems exist, position CAPs to help other Agencies if needed, as well as celebrate the success of the collective efforts of the six CAPs.

The IES lead vendor conducts post-inspections on 100% of all jobs and has the opportunity to talk one-on-one with the customer to get feedback, gauge satisfaction and identify areas for improvement.

Changes for 2022

In 2021, the IES Program implemented a process to provide CAP Agencies with access to an experienced third-party weatherization vendor to expand the CAPs capacity to readily complete weatherization jobs and improve equity across CAP territories. Due to the COVID-19 pandemic, the thirdparty vendor model took longer than expected to establish and to test. As this new model was implemented in 2021, ongoing improvements have been made to the to provide timely and seamless services between the CAPs and the vendor with the biggest focus being on the length of time to complete the weatherization jobs. In 2022 this model will continue to serve as a resource for CAPs to serve more customers, but also as a resource for CAPs who fall below performance thresholds including quantity of outstanding jobs, and length of time of pipeline for customers to be served. These metrics will be determined first guarter of 2022 Lessons learned from this third-party vendor model from 2020 and 2021 will be used to develop an RFP for these services in 2023. Determination of success of this model will include:

 CAPs meeting/exceeding year end weatherization participation goals. Each year, goals are based on the total weatherization goals divided by the number of eligible customers in the agency territory.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 39 of 73

Both numerical goals and spending goals are determined for each CAP and are measured and communicated throughout the year.

- Improved timeliness for completion of weatherization services.
- Timeline from recommendation to completion of weatherization job and customer satisfaction.

Due to the impact of the COVID-19 Pandemic on the IES population in 2020 and 2021, several improvements that were recommended in **2019 Process Evaluation** will remain a focus in 2022. Specific focus will remain on the following key areas.

- Rebuild and stabilize the number of qualified AMP/weatherization and heating assessors. Due to workforce layoffs, furloughs, extended unemployment benefits, and workforce transition, the CAP Agencies' workforce was significantly impacted. The IES Program will prioritize assisting CAPs to train, hire and retain assessors. Indicators of success include training and hiring new assessors and regularly tracking the number of assessors
- Focused communication and engagement with landlords on behalf of interested tenants. The Company aims to increase renter participation, via landlord outreach, to effectively improve the equitable share of program resources.

In 2021 a working group convened to examine the IES emergency heating system replacement for income eligible customers that heat with oil or propane. The desired outcome of the working group is to 1) reduce the number of emergency oil/propane heating system replacements (replacing oil/propane heat systems with high efficiency oil/heat systems), and 2) find supplemental funding that can offset the cost of fuel switching from oil/propane to high efficiency heat pumps heating systems. In order to achieve this, in 2022, the IES Program will develop a list of oil/propane systems they observe during on-site and virtual energy assessments and will work with supporting stakeholders (RI OER, DHS, DOE, and others) to identify funding that can be leveraged to replace oil/propane heating systems with high efficiency heat pumps. At the time when fuel switching can be done, the IES Program will determine if a dedicated team of contractors can be designated for emergency replacements so that homes can be weatherized, heat pumps systems specified, sized, and installed in a shorter time period than is currently possible during emergency heating system replacement season.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 40 of 73

	The program will implement a training process for offering expert
	The program will implement a training process for offering smart
	thermostats to homes with central AC to improve energy efficiency and
	operability and align with ConnectedSolutions when possible.
Rationale for Changes	Increase completion of weatherization jobs: In the income eligible housing stock, it is common for maintenance and/or improvements to be deferred due to many possible factors including cost, time, lack of information,
	concern about potential code violations and/or undocumented status, existing conditions preventing weatherization, etc. Weatherization of a home is the priority to prevent energy loss through cracks, holes, and uninsulated walls. Insulating a home saves energy and money and improves
	thermal comfort for the occupants. By having a third-party vendor available to assist the CAP Agencies in completing weatherization jobs means more energy savings, less cost for customers, and if necessary, may result in smaller heating and cooling systems if replacement is needed.
	Stabilize the number of qualified AMP/weatherization and heating
	assessors: 2020 and 2021 resulted in the loss of several
	AMP/weatherization and heating assessors due to many factors. Due to the IES Program requirements, hiring new staff can take several months. The
	IES Program poses several hurdles for new staff as the required training is
	time-intensive, all assessors going into a home have to pass a background
	check, and then the assessor has to gain in-field experience. To help to filter potential applicants and streamline the hiring process, the IES Program is working with Rhode Island Builders Association to develop a comprehensive training program that will set the path for a person to obtain the necessary training to apply for an energy assessor position. This program will be launched in 2021 and be fully instituted in 2022. Maintaining qualified assessors is critical to the success of the IES Program as the time it takes to
	hire and train an assessor can significantly impede an Agency from completing any energy efficiency work.
	Focused communication and engagement with landlords: Landlord
	participation in the IES Program is important for the success of reaching potentially older homes that often have deferred maintenance. In 2022 the
	IES Program will develop a targeted communication and marketing strategy aimed at landlords to improve their trust in the IES Program, share
	examples of similar projects, effectively communicate all the short-term and long- term benefits. Without landlord commitment to the IES Program, renters cannot gain the benefits of energy efficiency which causes an issue

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 41 of 73

	with equity of program resources. Success for this improvement will include the number of types of channels for communicating with landlords, and the number of landlords that move forward with the IES Program.
	IES emergency heating system replacement: Currently, if an income eligible customer heats their home with oil or propane and they have a heating system failure or the system is deemed unsafe, the original oil or propane heating system is replaced with a more efficient oil or propane heating system. This 1:1 replacement is the most efficient solution to satisfy the emergency nature of a customer's heating needs. Ideally the Program would prefer to upgrade the oil/propane heat systems with more energy efficiency heat pumps, however the RI EE Programs are not able to provide fuel switching with ratepayer funds. Even if fuel switching was allowed, the time to design and install a completely different system takes many weeks, and a customer cannot be without heat for many weeks in the winter. It is important to note other barriers for heat pumps are that not all homes are well-suited for ASHPs; the IES Program pays for 100% of equipment, labor and inspection costs, which can become very expensive for fuel switching. The PUC recommended that the Company look into possible solutions to stop the installation of new oil/propane heating systems for emergency heating system replacements as they perpetuate the burning of carbonintensive fuels. A working group, convened to address this topic, provided recommendations to reduce the number of oil/propane heating system replacements and to identify funding sources for paying for the fuel switching.
Proposed Upcoming	None planned for 2022. In 2019, Cadeo conducted a Process Evaluation for
Evaluations	the Income Eligible Services Program and which built off a report conducted by The Cadmus Group in 2014.
Notes	

Income Eligible Services – Single Family– Electric Program Goals, Metrics, Budgets, Participation for 2022

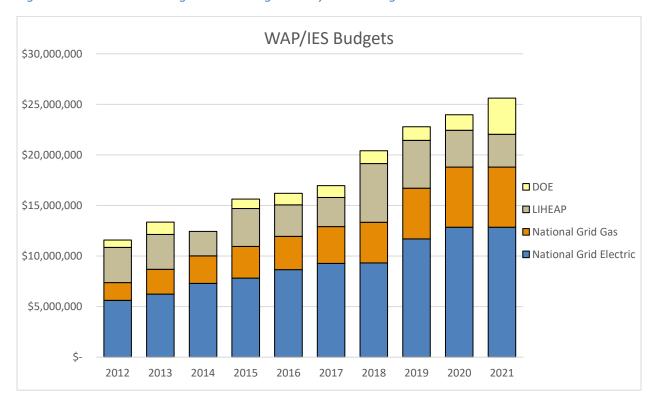
Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		

Electric	38,506	3,314	480	358,466	\$13,265	3,583

Income Eligible Services - Single Family- Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	218,847	10,942	\$6,372	1,098

Figure 8. 2012-2020 Funding Sources - Single Family Income Eligible EE Services



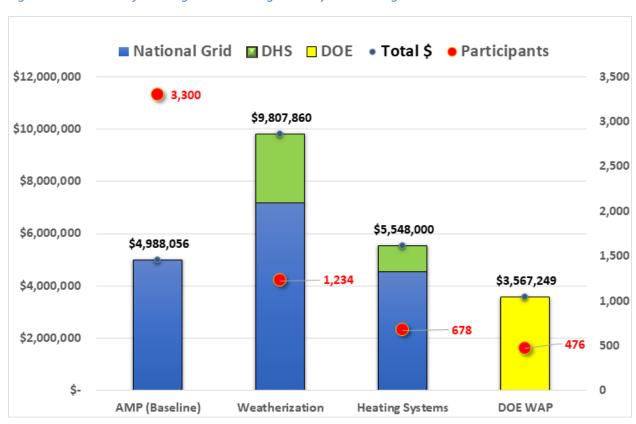


Figure 9. Allocation of Funding Sources - Single Family Income Eligible EE Services

Table 2: Services Provided – IES Program and Low-Income Home Energy Assistance Program

Single-Family Income Eligible Services (IES) Program*	Low-Income Home Energy Assistance Program (LIHEAP)*	
 Conduct whole house Energy Assessment and provide customer education Lighting and Appliance (AMP) Assessment Heating and Weatherization Assessment 	 Conduct whole house audit/ energy efficiency evaluation for Heating Systems and Weatherization (not appliances) Install weatherization measures (insulation, air sealing, duct sealing) 	

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 44 of 73

- Review utility bills
- Replace incandescent and halogen bulbs with LED bulbs
- Install smart power strips and domestic hot water savings measures
- Talk with homeowner about opportunities to save energy and money through upgrading appliances and mechanical equipment and weatherizing the home.
- Coordinate the installation of weatherization measures and/or space/water heating system and air conditioning replacements if needed
- Install weatherization measures if needed
- Replace eligible appliances
- Conduct field inspections and testing, i.e., quality assurance/quality control.

- Replace inefficient heating/cooling equipment if deemed eligible
- Improve minor health and safety issues that are barriers to energy efficiency measures
- Conduct field inspections and testing,
 i.e., quality assurance / quality control.

^{*}Both IES and LIHEAP offer all services and products at no-cost to the customer.

5. Residential New Construction (Electric and Gas)

Eligibility Criteria	The Residential New Construction (RNC) program is designed to advance		
Eligibility Criteria	the Rhode Island housing market toward Zero Energy homes. The program		
	provides technical services, inspection services, and project incentives for		
	new construction, additions, and major renovations to both one to four unit		
	and five plus unit buildings. The program also supports major renovation of		
	adaptive reuse projects (e.g. mill building conversions). The RNC program		
	supports both market rate and income eligible housing units.		
Offerings	Design and Construction Assistance		
	 Energy modeling and design assistance to verify compliance with 		
	the RNC requirements and justify the respective incentives.		
	 In-field training and inspections to verify compliance with the RNC 		
	requirements and promote efficiency in subsequent projects.		
	Market Development		
	 Technical training on high efficiency and Zero Energy building 		
	practices, as well as energy code compliance, to build necessary		
	market capacities.		
	Training and certifying Home Energy Rating System (HERS) raters to		
	increase the number of qualified raters based in RI.		
	Rating and certification services, including HERS, DOE Zero Energy		
	Ready Home, Passive House, and ENERGY STAR, to promote		
	visibility of energy efficiency in the marketplace and support		
	increased use of the RI Residential Stretch Code.		
	Incentives		
	 Whole-home efficiency incentives for 1-50 unit buildings based on 		
	achieved level of efficiency and number of units.		
	 Path to Energy Efficiency incentives ranging from \$200 to 		
	\$4,000 per home.		
	 Four efficiency tiers, with an entry threshold of 15% 		
	more efficient than baseline and progressive		
	maximum air leakage requirements.		
	 Additional incentive options of \$250-\$1,000 per 		
	home for all-electric home and \$100-\$200 per		
	home for ENERGY STAR® certification.		

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 46 of 73

	-
	 Path to Zero Energy Ready incentives ranging from \$500-\$1,500 per home in addition to Path to Energy Efficiency. Projects must meet a minimum base efficiency level, be all-electric, and achieve DOE Zero Energy Ready Home, Passive House, or equivalent certification. Projects with >50 units are eligible for custom incentives. Adaptive Reuse projects are incentivized based on a separate set of prescriptive measures tailored to mill conversion projects. Certification incentives provided to support third-party verification of energy efficiency measures. Equipment rebates for qualifying high efficiency heating, cooling, and hot water equipment. Complimentary ENERGY STAR LED bulbs and WaterSense showerheads.
Implementation and	Design and Construction Assistance, Incentives: The RNC project pipeline is
Delivery	developed primarily through coordination with RI permitting departments, engagement of the building industry, and referrals from EnergyWise and Rhode Island Housing. A participating customer/project team begins the process by calling or emailing the RNC program. The project team meets with the RNC program team (led by a Lead Vendor), to discuss the project design, learn how to modify design or mechanical systems to improve energy efficiency, and initiate energy modeling of the project to determine the potential for incentives. Once construction has begun, RNC staff provides on-site training as needed and conducts inspections of the completed project to determine energy efficiency and respective incentives. When the project is complete and has met program requirements, the performance and equipment incentives are issued. Market Development: RNC identifies opportunities to build necessary market capacities to advance toward Zero Energy Homes and delivers education and outreach programming designed to achieve this goal.
Customer Feedback	A survey will be conducted annually to program participants and/or the broader market targeted by this program to collect feedback.
	broader market targeted by this program to confect recuback.

	Project teams are offered an opportunity to highlight their project in a case study for further promotions. Case studies have proven a good channel for customers to express satisfaction with the Program.
Changes for 2022	In 2022, RNC will codevelop with the ENERGY STAR HVAC program a HVAC consulting service to support the high efficiency performance levels required to achieve standards such as Zero Energy and Passive House. This will include contractor training, design review, and in-field support. Program content related to codes and standards will be refreshed to reflect the State's code update expected in early 2022.
Rationale for Changes	The changes for 2022 will continue to increase the visibility and effectiveness of all electric homes and significantly improve thermal performance, both resulting in further reduction of energy use. These changes also contribute to advancing the State's greenhouse gas emissions reduction goals.
Proposed Upcoming Evaluations	Residential New Construction Baseline and Code Compliance Study (RI-21-RX-CSNC)
Notes	

Residential New Construction – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	14,947	867	74	97,027	\$1,542	462

Residential New Construction – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	64,899	3,610	\$513	289

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 48 of 73

6. Home Energy Reports (Electric and Gas)

=11 11 111	
Eligibility Criteria	The majority of Rhode Island residential Electric and Gas customers are
	eligible for the Home Energy Reports (HER) program. Customers with an
	email address on record will also receive an electronic version of the report
	(eHER). All customers have access to the online home energy assessment
	and related insights. Randomly compiled control and treatment groups are
	necessary for accurate savings reporting. Thus, some customers will not
	receive print or electronic reports (control group), while others receive both
	print and electronic HERs (treatment group).
Offerings	The HER program is a state-wide energy efficiency program that provides
	benefits for Rhode Island residential customers through the mailing of
	customer-specific energy usage reports and insights. While over 300,000
	customers receive HERs (i.e., the treatment group) by way of direct mail
	and/or e-mail, all account holders have access to insights in their energy
	consumption via the web tools located on the National Grid website. The
	program has evolved since 2013 from offering only mailed insights to now
	being integrated into the Company's website with online assessment tools,
	sending Non-Advanced Metering Infrastructure (AMI) High Usage Alerts,
	and utilizing segmentation to target different populations with relevant
	messaging.
Implementation and	The program is administered by a Lead Vendor, a company with subject
Delivery	matter expertise selected by the Company to deliver the program. This Lead
	Vendor also developed and launched the first HERs in the country. Since
	2013, the Company has employed the Lead Vendor to implement the HERs
	in all three of its jurisdictions (Massachusetts, New York, and Rhode Island).
	The Lead Vendor is responsible for maintaining HER distribution groups,
	tracking data, managing the Web Portal, and documenting energy savings.
	The Lead Vendor works with the Company to craft the messaging and
	delivery of the HERs, and also works with the Company to introduce
	additional program enhancements, aligning with the Company's state-wide
	comprehensive marketing efforts.
	All eligible customers will receive a minimum of 6 print versions of the
	report a year and up to 4 gas specific reports in the winter season. All
	customers with email on record will receive up to 12 reports a year. The
	reports include marketing messages informing customers of other program
	opportunities so that they may be made aware of the most current and
	relevant energy efficiency offerings. For customers interested in learning
	I relevant energy etticiency otterings. For clistomers interested in learning

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 49 of 73

	more about energy saving tips and their home's energy consumption, they may log into the online portal and use the available tools.
Customer Feedback	The Company's Customer Energy Management team overseeing program strategy continues to work with the Customer Contact Center to ensure customer complaints are addressed. In each report there are multiple options for the customer to contact the Company to learn more or opt-out of the reports.
	The Lead Vendor completes a Customer Engagement Tracker (CET) annually to assess customer perception of the program. Some of the customer's verbatim feedback from the CET include:
	"It gives me a comparison with other similar homes in the area and whether I need to be doing things different especially because of winter."
	"I like that they send it to my computer so that I don't have to wait on the mail."
	"I like the comparison between my usage and my neighbors and how much I save using solar."
Changes for 2022	In 2021 HER launched a targeted 1-click promotion module within digital HERs in Rhode Island which allowed the Company to quickly gather updated information on customer's homes and provide personalized program recommendations. In 2021, multifamily customers were targeted, and responses provided additional learnings about the size of the multi-unit dwellings. The 1-click promotion results in a 10% click-to-open rate on the module (compared to avg. 3% eHER module click rate), driving energy efficiency program awareness, and establishing a pool of self-identified MF customers in 5+ units for future targeted marketing. The new 1-click promotion modules will continue in 2022. Areas of interest include collecting information on customers who cool their homes with a central air conditioning unit to promote purchase of Smart thermostats and Connected Solutions.
Rationale for Changes	The goal of collecting additional insights on the customer's home is to provide meaningful, specific promotions and energy savings tips that resonate with customer.
Proposed Upcoming Evaluations	None are planned for 2022 as the program recently completed an impact evaluation in 2020.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 50 of 73

Notes	

Home Energy Reports – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	26,852	26,852	3,692	91,619	\$2,641	323,248

Home Energy Reports – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	93,548	93,548	\$442	152,324

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 51 of 73

7. Residential Consumer Products (Electric)

Eligibility Criteria	Residential Consumer Products serves all residential customers by offering incentives on electronics, ENERGY STAR® consumer appliances, and other high use energy saving devices.			
Offerings	Residential Consumer Products incorporates both the federal Environmental Protection Agency (EPA) ENERGY STAR and Department of Energy (DOE) categories of consumer appliances, select building products, and some energy saving items not included by the federal agencies. The largest savings elements of the Consumer Products program come from recycling older refrigerators and freezers and the sale of new advanced power strips that assist in removing the standby power load from devices that are plugged into wall sockets. In 2022 the program will also support dehumidifiers, dehumidifier recycling, dryers, refrigerator and freezer recycling, room air cleaners, room air conditioners, efficient shower heads, pool pumps, and low-emissivity storm windows. Consumers can purchase products at a local retailer, online through any online retailer as long as the product meets product specifications and there is a receipt, or at the National Grid marketplace (ngrid.com/shop).			
Implementation and Delivery	There is a Lead Vendor for this program that works with retailers, so they are knowledgeable about the products and ensure proper signage within the stores. The Lead Vendor also jointly provides staff at customer outreach events at retailer locations. The program supports a combination of upstream and midstream incentives as well as post-purchase consumer incentives. The upstream, negotiated with manufacturers and distributors, and midstream, working with retailers, incentives encourage retailers and manufacturers to support ENERGY STAR with increased production and availability of products. Consumer incentives are designed to bring efficient product costs in line with less efficient equipment, thereby encouraging the adoption of the more efficient item. A rebate processing vendor verifies and processes post-consumer incentives which can be submitted electronically or by traditional mail. This			
Customer Feedback	vendor also processes upstream and midstream incentives. Much of the customer feedback for this program comes from our Lead Vendor, as they work with retailers and staff customer educational events at the retail location and through the pop-ups. Lead Vendors report general customer interest in learning which products have incentives.			

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 52 of 73

	,
Changes for 2022	The Company will join the ENERGY STAR Retail Products Platform (ESRPP)
	in 2022 and test the process with the introduction of ENERGY STAR® most
	efficient clothes washers and refrigerators, two products that currently do
	not receive incentives. ESRPP is a midstream initiative of energy efficiency
	program sponsors, retailers, and other key ENERGY STAR program partners
	and stakeholders. ESRPP aims to transform markets by streamlining and
	harmonizing energy efficiency programs with retailers, making them less
	complex and more cost-effective.
	Relatedly, the recent Market Potential Study identified products such as
	clothes washers and refrigerators, which are not currently offered by the
	program. These products were removed from the program in prior years, as
	high free ridership values meant they were not cost effective. The ESRPP
	offers an opportunity to reduce costs from a traditional downstream
	approach once again include these offerings in the program.
Rationale for Changes	ESRPP: The ESRPP allows the program to include more products within the
	program portfolio, provide incentives to more customers, potentially allow
	the program to reduce incentive costs, and increase savings, thus
	exploration of joining the platform is warranted.
Proposed Upcoming	No planned evaluations for 2022.
Evaluations	
Notes	

Residential Consumer Products – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh (Electric)	Annual MWh (Electric)	Annual Passive Demand Reduction kW (Electric)	Lifetime MMBtu (Electric Gas, Oil, Propane)	Budget (\$000)	Participation
Electric	47,554	6,885	1,118	165,981	\$2,837	34,962

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 53 of 73

8. Residential High-Efficiency Heating, Cooling, and Hot Water (Electric and Gas)

Eligibility Criteria	Residential High-Efficiency Heating, Cooling, Ventilation and Hot Water (ENERGY STAR® HVAC) serves all residential customers by offering incentives on high-efficiency building space conditioning and water heating equipment and equipment maintenance. Energy efficient equipment must be installed by a licensed heating or cooling contractor or plumber.				
Offerings	The High-Efficiency Heating, Cooling, Ventilation and Hot Water Programs (HVAC Programs) promote and incentivize the installation of high efficiency electric and gas equipment through:				
	 Customer rebates on energy efficient equipment Boilers Combined condensing boilers Furnaces Hot water heaters Heat recovery ventilators Air source heat pumps (space and water heating) Air Conditioners Smart thermostats Ability to enroll in the ConnectedSolutions demand response program for additional energy savings Quality Installation Verification Contractor training Contractor incentives Upstream incentives (discount taken at the distributor level) Heat Loan Financing Customers who complete a Home Energy Assessment through the EnergyWise Program can apply for 0% Heat Loan financing for qualified high-efficiency space heating and cooling and hot water equipment upgrades. The HVAC Electric and Gas Program is cross-promoted through the EnergyWise Home Energy Assessment, Multifamily, Residential New Construction, Community-Based Initiative and Home Energy Reports Programs. Training elements and best practices of the Program are also 				
	,				

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 54 of 73

	contractor skills for accurate sizing, design, installation and performance				
	verification of the high efficiency HVAC systems.				
Implementation and Delivery	verification of the high efficiency HVAC systems. The program is administered by a Lead Vendor that is responsible for contractor training, maintaining distributor relationships, tracking data, providing content for marketing and documenting monthly, quarterly an annual energy savings. The Lead Vendor works closely with the Company deliver the HVAC Program and provide strategic insight for program improvements. Contractor training and education is a primary component of the program to ensure accurate sizing, design, installation and performance verification of heating, cooling, and hot water equipment and results in energy savin and customer satisfaction. The Lead Vendor provides regular communication and in-store time with distributors to provide training and information on the equipment and greedback on customer interactions. The Lead Vendor also ensures distributors have proper promotions and marketing signage within the distribution stores. The Company and Lead Vendor work with manufacturers to develop spe offers, or "flash sales", to further incentivize customers to participate in the Program to gain the benefit of the energy savings. Product channels for ease of customer use and for product adoption: • EnergyWise single family or multifamily programs • HVAC contractors during routine maintenance service, emergent service, or contractors' marketing communications • Residential New Construction/Major Renovation energy advisors during project design consultation. • Upstream and midstream incentives • Comprehensive National Grid Energy Efficiency marketing chann including emails, Home Energy Reports, bill inserts and radio and media advertisements. • RI Online Marketplace https://ri.home.marketplace.nationalgridus.co offers customers the ability to purchase instant discount rebates energy efficient thermostats and water fixtures. • The program supports a combination of upstream and midstream incentives as well as post-purchase consumer in				
	offers customers the ability to purchase instant discount rebates on				
	The program supports a combination of upstream and midstream incentives as well as post-purchase consumer incentives. The upstream and midstream incentives encourage retailers,				

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 55 of 73

distributors and manufacturers to support ENERGY STAR products with increased production and availability of products. Consumer incentives are designed to bring efficient product costs in line with less efficient equipment, thereby encouraging the adoption of the more efficient item.

- Implement a customer optimization strategy to identify electric resistance heated homes where air source heat pumps and heat pump water heaters would be ideal solutions.
 - The EnergyWise Program sends heating, cooling and hot water recommendations to the HVAC Lead Vendor. The HVAC Lead Vendor then sends an email to customers to offer assistance in moving forward with energy efficiency recommendations.
 - The Home Energy Reports sends targeted communications to electric heat customers promoting air source heat pumps as an energy efficiency solution.

A rebate processing vendor verifies and processes post-consumer incentives which can be submitted electronically or by traditional mail. This vendor also processes upstream and midstream incentives.

Customer Feedback

The Company's HVAC Lead Vendor has quality assurance (QA)/quality control (QC) staff who perform onsite inspections and engage with customers to obtain feedback and/or questions. Staff often have extended discussions with customers about their new system and how to best operate and maintain it for optimal performance. The QA/QC staff also frequently meet with HVAC service technicians and installation crews on project sites. The purposes of these visits are to perform QA/QC inspections, test the equipment and installation, capture customer feedback, and provide additional 1:1 training. The QA/QC staff frequently meet with HVAC distributors at their distribution centers to share new program information and provide feedback from contractors, customers, and the utility program administrators. Finally, these same staff lead larger HVAC contractor trainings and annual contractor meetings where the lessons learned from field visits are shared. The program's central focus is on these frequent direct interactions with customers, contractors, and distributors to obtain feedback and share lessons learned from the field, while mentoring and training HVAC service providers.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 56 of 73

Changes for 2022	In both the electric and gas HVAC Programs, the HEAT Loan has been added to the Program budget.			
	In the Gas HVAC Program, the lower efficiency boiler and combo condensing measures were removed to increase participation in the higher efficiency boiler and combo condensing measures.			
	The HVAC Gas program will coordinate with the EnergyWise Program on offering a bundled incentive for customers that have received recommendations to do both weatherization and gas heating system upgrades. The bundled incentive will allocate additional incentive funds toward weatherization for the customer when they also do the heating system upgrade.			
	The HVAC Electric program will coordinate with EnergyWise on Concierge Services for electric heat customers to identify customers who are ideal candidates for upgrading to heat pumps and help to walk the customer through the process.			
	The Electric HVAC Program and the Residential New Construction/Major Renovations Program will work closely together to develop and implement an HVAC contractor training for the design and installation of heating/cooling/ventilation/hot water systems in projects striving to meet Zero Net Energy and Passive House.			
	HVAC Contractors will be listed on the Program's webpage as having completed the training and/or for the completing Zero Net Energy and Passive House projects.			
Rationale for Changes	In both the electric and gas HVAC Programs, the HEAT Loan has been added to the Program budget. Historically this budget was in the Energy Wise Program, however, to provide reflective budgets for the respective programs, the HEAT Loan budget was allocated across the Programs that utilize the incentive of interest buy-down of the loan.			
	Removal of the lower tier Boilers and Combination Boilers to encourage customers to upgrade to the higher efficiency equipment.			
	The HVAC Program will coordinate on strategic communication and technical support to assist HVAC contractors engage with Zero Net Energy and Passive House projects to ensure the mechanical system is ideally designed and installed to meet the very low energy requirements of the homes. Consideration of requirements for contractors to participate in Zero			

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 57 of 73

	Net Energy and Passive House training or successful completion of a project
	to be listed as a Zero Net Energy and Passive House participating HVAC
	contractor.
Proposed Upcoming	RI-22-RE-HPMeter – Mini-Split/Central Heat Pump Metering Study. This
Evaluations	study will update the savings estimates for the current rebate offerings for
	mini-split heat pumps, both going from standard heat pumps to high
	efficiency heat pumps and electric resistance to heat pumps, and ducted
	heat pumps going from standard heat pumps to high efficiency heat pumps
	in RI. This study would be in collaboration with MA and possible other
	states in the New England area.
	RI-21-RG-GasHPDemo – Gas Heat Pump Demonstration Evaluation. This
	study will assess the savings potential for a possible new measure offering,
	gas heat pumps. The savings will be used to determine if the measure is
	cost effective. Furthermore, the study will review and determine if this
	technology is market ready and should be considered as a measure to be
	included as a full program offering. Some key questions will be how
	efficient these units work at different temperatures, if they perform close
	to their rated efficiency, and whether they can be a home's sole heating
	source.
Notes	

High-Efficiency Heating, Cooling and Hot Water – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Passive	Lifetime	Budget	Participation
	(Electric)	(Electric)	Demand	MMBtu	(\$000)	
			Reduction kW	(Electric		
			(Electric)	Gas, Oil,		
				Propane)		
Electric	77,717	4,620	240	338,161	\$4,487	5,229

High-Efficiency Heating, Cooling and Hot Water – Gas Program Goals, Metrics, Budgets, Participation for 2022

	Lifetime MMBtu (Gas)	Annual MMBtu (Gas)	Budget (\$000)	Participation
Gas	439,717	26,740	\$3,732	3,062

9. Residential ConnectedSolutions

	r connected solutions
Eligibility Criteria	ConnectedSolutions is National Grid's active demand reduction program that focuses on electric demand reduction during peak demand periods during the year. Consumers with eligible controllable equipment can enroll to participate in active demand reduction.
Offerings	Thermostats
	The Company has offered a Smart thermostat-based demand response program since the summer of 2016. There are nine different smart thermostat manufacturers supported in the program.
	This program precools the customers' home before the grid peak and then sets back the thermostat setting during peak periods. This lowers the chance of customers' central air conditioning units running during grid peaks. A customer may opt out of the program or events at any time. Customers receive an initial enrollment incentive and an annual incentive for staying in the program.
	Batteries
	The Company has offered a battery-enabled demand response program since 2019. There are six different smart inverter manufacturers supported in the program. The Company added two more inverter manufacturers since the summer of 2020. The inverters control the battery systems.
	This program sets batteries to discharge during grid peaks. Often, this means that power is being exported to the grid during peak times, which reduces the load on the grid. This export is supported in both the Net Metering and RE-Growth programs.
	Customers may apply for a seven-year, 0% interest HEAT Loan for the cost of the battery system. Customers receive no other upfront incentives. Customers are

incentivized based on the average performance (kW) of their battery system over the 30 to 60 summer events each year.

Pool Pumps

Starting in 2022, the Company will offer a pool pump-based demand response program. This program will control internet connected pool pumps to automatically stop pumps when the electric grid is at or near its annual peak. These peak events will be called on the same dates and times as the battery-based demand response program.

This program will control internet connected pool pumps. Customers will earn an enrollment incentive and an annual incentive for staying in the program.

Implementation and Delivery

Thermostats

In this BYOD (Bring-Your-Own-Device) program, customers are free to purchase a thermostat from any of the nine supported manufacturers. After purchase, thermostat manufacturers send emails and in-app notifications to customers inviting them to enroll in the ConnectedSolutions program. Enrollments in smart thermostat-based demand response options have historically exceeded expectations. In 2019, the program planned to enroll 2,479 thermostats, but enrolled 3,936. This overachievement was largely the result of a coordinated marketing effort with the largest thermostat vendor, enrolling their existing customers. In 2022, the program plans for an enrollment increase of 42%.

Historic Numbers Number							Proposed Number
of	2016	2017	2018	2019	2020	2021	2022
Thermo-	96	813	1,674	3,936	4,526	5,459	9,101
stats						(vs.	(42%
						6,409	increase)
						planned)	

Device	Enrolment Incentive	Annual Incentive	HEAT Loan Eligible	Performance Incentive	Demand Savings
Thermostats	\$25 per thermostat	\$20 per thermostat	No	None	0.59 kW per thermostat

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 60 of 73

Batteries

In this BYOD program, customers are free to purchase an inverter from any of the supported inverter manufacturers and have it installed by the customer's preferred installer. Inverters control the battery systems. Enrollments in the residential battery-enabled demand response program have been lower than expected even though generous incentives are offered in RI for batteries through other programs. For 2022 the Company is expecting a 50% increase in enrollments.

Historic Numbers Proposed Number						
of Pottories	2019	2020	2021	2022		
Batteries	24	100	199 (vs. 300 planned)	300 (50% increase)		

Device	Enrolment Incentive	Annual Incentive	HEAT Loan Eligible	Performance Incentive	Demand Savings
Batteries	None	None	Yes	\$400/kW- year	6.6 kW

Pool Pumps

The pool pump demand response program will also be new in 2022. In 2021 Guidehouse completed a report showing that pool pumps could cost effectively be added to the Company's demand response programs¹³.

In this BYOD program, customers earn and incentive for signing up for the program and for each year they stay in the program. In 2022 only one pool pump manufacturer may be supported by the Company's DERMs. However, the Company expects this number to grow in 2023.

¹³ https://ma-eeac.org/wp-content/uploads/2021-Cost-Effectiveness-of-ADR-for-Residential-End-Uses-Final-Report-2021-07-19 CLEAN-1.pdf

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 61 of 73

	The Company has set the goal of enrolling 25 customers in to the pool pump program in 2022. Marketing for this program will be mostly through the pool pump manufacturer to customers who already have a supported internet connected pool pump, and to new customers considering the purchase of a new pool pump. The incentives will help to offset the incremental cost of customers installing an internet connected pool pump instead of a standard pool pump.						
	Device	Enrolment Incentive	Annual Incentive	HEAT Loan Eligible	Performance Incentive		
	Pool Pumps	\$100 per utility account	\$20 per utility account	No	None		
Customer	Feedback from c	ustomers and ve	ndors is used to o	continuously imp	rove all of the		
Feedback		•	ecially important I response measu		es such as the		
Changes for	In 2022 the com	pany will launch	a pool pump-base	ed demand respo	onse program.		
2022	Additional detail	about these nev	v offerings is desc	cribed in Offering	gs above.		
Rationale for Changes		_	e in the adoption ributed energy re				
	electricity to red	uce the cost of r	unning the grid fo	or all customers.			
Proposed Upcoming Evaluations	None.						
Notes	Active demand r The Company is	The program is planning to achieve demand reductions above the set Targets for Active demand response (i.e. the maximum scenario in the Market Potential Study). The Company is identifying and pursuing opportunities beyond what was identified by the Market Potential Study.					
	2022 with an exp	pected completion savings in kWh	study was starte on in the summer and determine cu gram offering in t	of 2022. This stu Istomer acceptai	ıdy looks to		

Residential Connected Solutions – Electric Program Goals, Metrics, Budgets, Participation for 2022

Fuel	Lifetime MWh	Annual MWh	Annual Active	Budget	Participation
	(Electric)	(Electric)	Demand	(\$000)	
			Reduction kW		
			(Electric)		
Electric	59.4	59.4	7,365	\$1,802.2	4,178

10. Marketing, Outreach & Education

10.1 Overview

The goals of the Company's marketing efforts are to build awareness of and drive participation in the Company's efficiency offerings and services among residential customers, while providing a positive customer experience. The Company uses an integrated, multichannel approach featuring consistent messaging and visual design elements (as appropriate) across communications. General awareness tactics (i.e. print ads and radio) as well as digital and direct one-to-one tactics (such as e-mail, online banner ads, social media, and direct mail) generate customer interest and program participation. All ratepayers receive bill inserts and quarterly 'We Connect' printed newsletters and can access www.nationalgridus.com at any time (provided they have internet access). The Company promotes energy education to private and public schools and youth groups through the National Energy Education Development (N.E.E.D) Program. This program provides curriculum materials on www.need.org, as well as training to students and teachers in grades K-12.

10.2 Delivery, and New for 2022

During 2021, familiarity of energy efficiency programs among RI customers remained strong and stable with respect to 2020 levels, per the Company's online survey of a representative sample of National Grid customers. 66.1% of the customers surveyed between April 2021 and June 2021 were "very familiar" or "somewhat familiar" with "energy savings or rebate programs from National Grid that help you with ways to use less gas or electricity.

National Grid uses a multichannel marketing approach to generate interest and drive adoption of solutions across the portfolio, as well the use of residential segmentation to enable personalization and optimize a channel strategy based on customers' preferred communication channels. The Company aligns marketing efforts with residential customer research, customer segmentation, propensity modeling, media habits research, and behavior data. Due to COVID-19 pandemic, recent campaigns reflect the 2020 changes made to energy efficiency strategies and programs to engage customers during this time. The Company's ecommerce Marketplace at https://ri.home.marketplace.nationalgridus.com/serves as the online destination for customers to purchase top branded energy-efficient products. The

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 63 of 73

National Grid website remains an important resource for information on products and services as well as rebates available to customers. The Company's social media advertisements and messages on Facebook, Instagram, Twitter, Snapchat, and NextDoor ensure customers are learning about energy efficiency opportunities while they are on-line with their family, friends and neighbors.

Across marketing campaigns, messaging focuses on the benefits of energy efficiency products and programs while aligning with overall Company communications and demonstrating an understanding of current customer sentiment and needs based on internal research. Core to our messaging is helping customers save energy and money and lower their environmental footprint. Where appropriate, messaging around safety is incorporated into marketing materials given health and safety concerns. Overall messaging tone is helpful, empathetic, and informative to ensure the information reflects the Company's role as a trusted advisor who truly cares about customers' needs.

National Grid's newest energy efficiency education campaign, which began in the fall 2020, was planned to complement all programmatic marketing efforts. The omni-channel outreach plan includes a mix of owned and paid tactics and channels. Ads are intended to be informational while providing tangible ways to take action. Core to the campaign is an interactive landing page that captures the essence of the whole-home approach and serves as the destination for customers to comprehensively understand the value of the energy efficiency programs. This interactivity allows customers to roll over the illustrated home and learn more about the various programs, potential savings and energy efficiency measures they can take, as well as link to more program details. To complement the interactive experience, a downloadable editorial style Energy Efficiency guide provides customers with seasonal and year-long energy saving tips and information about energy efficiency offers and rebates.

New for 2022:

- Using lessons learned from a 2020 demonstration campaign that was created for fridge
 recycling, the Company will scale its multi-cultural educational efforts through the creation of a
 new in-language and in-culture campaign during late 2021 and into 2022. The goal will be to
 increase awareness and participation of the energy efficiency programs among multicultural
 customers. Initially the campaign will begin with Hispanic customers and expand to other
 multicultural groups. Aside from this campaign, the Company will also be more consistently
 sending its direct mail and emails in both English and Spanish.
- The Company will expand follow-up communications for customers who receive a recommendation from the on-line home energy assessment, in-home/virtual home energy assessment and/or home energy reports to ensure customers are engaged at points when action is critical.
- The Company will use the discussion and recommendations from a new working group effort on energy efficiency program collaboration with other home visiting programs to inform future energy efficiency outreach efforts.

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 64 of 73

- A new community advocate that focuses on energy efficiency will deliver energy efficiency
 program information at community centers, faith-based organizations, and other community
 gathering places, with a particular focus on ensuring geographic diversity in EnergyWise Single
 Family, Multi-Family, and Income Eligible program participation.
- The Company will make available additional energy efficiency collateral for community groups that serve vulnerable populations.
- The Company's participation in the annual Rhode Island Home Show a key residential customer event in which National Grid participates was cancelled in 2021 due to the pandemic and will be re-evaluated for 2022.

11. Residential Measures and Incentives

The following tables list the groups of measures offered in the residential programs, their planned quantities and incentives. Each group may be comprised of many measures.

Table 3. Electric Programs

Electric Programs							
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs		
	Air Sealing Kit - Electric	11	Average Incenti	ve based on measure			
	Air Sealing Kit - Oil	26	mix and is applie	d per participant (see			
	Air Sealing Kit - Others	11	line	e below)			
	Pipe Insulation - Electric	410					
	Pipe Insulation - Oil	3,499					
	Pipe Insulation - Others	120					
	Pre-Wx	629					
	Wx - OIL	1,778					
	Wx Elec - Elec Heat only	219					
	AERATOR - Electric	200					
	AERATOR - Oil	300					
	AERATOR - Others	11					
	Showerhead - Electric	350					
	Showerhead - Oil	550					
	Showerhead - Others	18					
	Programmable thermostat - Electric	500					
Enormul4/ico	Programmable thermostat - Oil	2,500					
Energy <i>Wise</i>	Programmable thermostat - Other	110					
	Wifi thermostat - Electric	12					
	Wifi thermostat - Oil	140					
	Wifi thermostat - Others	59					
	LED Bulbs	57,600					
	LED Bulbs (EISA Exempt)	38,400					
	LED Bulbs Reflectors						
	LED Indoor Fixture						
	LED Outdoor Fixture						
	Smart Strip	12,724					
	Refrigerator Brush	10,499					
	Participant	12,000	\$1,087	\$13,039,616			
	HEAT Loans			\$250,000			
	Program Planning & Administration				\$401,8		
	Marketing				\$373,6		
	Sales, Technical Assistance & Training				\$1,418,5		
	Evaluation & Market Research				\$281,9		

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 66 of 73

	E	lectric Programs			
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs
	Custom	32	Average Inc	entive based on	
	AIR SEALING ELEC WITH AC	1,400	measure mix a	and is applied per	
	AIR SEALING OIL	10	participant ((see line below)	
	INSULATION ELEC WITH AC	1,800			
	INSULATION OIL	200			
	AERATOR	300			
	AERATOR Oil	50			
	Pipe Wrap DHW Elec	225			
	SHOWERHEAD Elec	200			
	SHOWERHEAD Oil	10			
	TSV Showerhead Elec	65			
	TSV Showerhead Oil	10			
	THERMOSTAT Elec with AC	600			
	THERMOSTAT OIL	20			
	Common Ext LED Bulbs	209			
	Common Ext LED Fixture	92			
	Common Ext Reflector	18			
Multifamily	Common Int EISA Exempt	8			
	Common Int LED Bulbs	350			
	Common Int LED Fixture	301			
	Common Int Reflector	15			
	Dwelling Ext LED Fixture	18			
	Dwelling Ext Reflector	16			
	Dwelling Int EISA Exempt	241			
	Dwelling Int LED Bulbs	1,000			
	Dwelling Int Reflector	700			
	Smart Strip	1,000			
	Refrig rebate				
	Vending Miser				
	Participant	3600	\$712	\$2,563,800	
	HEAT Loans			\$50,000	
	Program Planning & Administration				\$100,52
	Marketing				\$74,35
	Sales, Technical Assistance & Training				\$441,60
	Evaluation & Market Research				\$40,39

	Ele	ctric Programs			
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs
	Adaptive Reuse	132	Average Inc	entive based on	
	CODES AND STANDARDS	1	measure mix	and is applied per	
	Renovation Rehab CP	15	participant (
	Renovation Rehab Tier 1 Home	25			
	Renovation Rehab Tier 2 Home	10			
	Renovation Rehab Tier 3 Home	2			
	Tier 4 Home	10			
	CWASHER	120			
	DISHWASH	522			
	SHOWERHEAD	25			
	LED Bulbs	8,833			
	Refrig rebate	602			
	CP Home - Heating	10			
Desidential Nam	CP Home - Cooling	10			
Residential New	CP Home - Water Heating	10			
Construction	Tier 1 Home - Heating	100			
	Tier 1 Home - Cooling	100			
	Tier 1 Home - Water Heating	100			
	Tier 2 Home - Heating	80			
	Tier 2 Home - Cooling	80			
	Tier 2 Home - Water Heating	80			
	Tier 3 Home - Heating	75			
	Tier 3 Home - Cooling	75			
	Tier 3 Home - Water Heating	75			
	Participants	462	\$1,734	\$800,884	
	Program Planning & Administration		. ,	, ,	\$91,607
	Marketing				\$23,608
	Sales, Technical Assistance & Training				\$545,538
	Evaluation & Market Research				\$79,905
	ACQIVES	18	\$175	\$3,176	
	ACS16SEER13EER	200	\$50	\$9,983	
	Central Heat Pump	32	\$350	\$11,088	
	DOWNSIZE	53	\$250	\$13,310	
	ECM Pumps	5,500	\$100	\$550,000	
	Elec Res to MSHP	425	\$4,000	\$1,700,000	
	HP Mini-split QIV	587	\$175	\$102,699	
Residential High-	HPQIVES	31	\$175	\$5,506	
Efficiency	HPTUNE	13	\$175	\$2,329	
Heating, Cooling,	HPWH < 55 gallon UEF 2.7	500	\$600	\$300,000	
and Hot Water	HPWH >=55 gallon UEF 2.0	13	\$150	\$1,997	
(ENERGY STAR®	Mini-Split Heat Pump	1,386	\$350	\$485,100	
HVAC)	WiFi Tstat-cool only,Elec	1,700	\$75	\$127,500	
	WiFi Tstat-heat and cool,Gas	160	\$75	\$11,979	
	HVAC Financing		·	\$410,000	
	Program Planning & Administration				\$95,734
	Marketing				\$279,624
	Sales, Technical Assistance & Training				\$524,569
	Evaluation & Market Research				\$262,259

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 68 of 73

	Electric Program	ms			
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs
	Energy Star ProductsThermostatic Shutoff Valve, Elec	21	\$11	\$231	
	Energy Star ProductsThermostatic Shutoff Valve, Oil	5	\$11	\$55	
	Energy Star ProductsThermostatic Shutoff Valve, Other	5	\$11	\$55	
	Energy Star ProductsLowFlow Showerhead with TSV, Electric	92	\$15	\$1,380	
	Energy Star ProductsLowFlow Showerhead with TSV, Other	26	\$15	\$390	
	Energy Star ProductsRoom Air Conditioner 10.8	840	\$40	\$33,600	
	ES Storm Windows	110	\$25	\$2,750	
	ES Storm Windows Elec heating	110	\$25	\$2,750	
	ES Storm Windows Others	110	\$25	\$2,750	
Residential	Energy Star ProductsDehumidifier Rebate	2,500	\$30	\$75,000	
Consumer	Energy Star ProductsDehumidifier Recycling	473	\$30	\$14,190	
Products (ENERGY	Energy Star ProductsEnergy Star Dryer	998	\$50	\$49,900	
STAR®	Energy Star ProductsPool Pump variable	525	\$500	\$262,500	
Products)	Energy Star ProductsRoom Air Cleaners	415	\$40	\$16,600	
	Energy Star ProductsSmart Strip	11,813	\$10	\$118,130	
	Energy Star ProductsTier 2 APS	9,188	\$35	\$321,580	
	Energy Star ProductsTier 2 APS OS	7,875	\$35	\$275,625	
	Energy Star ProductsFreezer Recycling	341	\$95	\$32,395	
	Energy Star ProductsREFRIG RECYCLING	4,400	\$95	\$418,000	
	Program Planning & Administration	-			\$83,524
	Marketing	-			\$464,319
	Sales, Technical Assistance & Training	-			\$542,421
	Evaluation & Market Research				\$22,199
	New Mover electric	18,428			
	New movers dual fuel	10,342			
	Optout dual fuel	123,401			
Home Energy	OptOut electric	171,077			
Reports	Program Planning & Administration	-			\$55,934
	Marketing	-			\$13,099
	Sales, Technical Assistance & Training	-			\$2,551,470
	Evaluation & Market Research	-			\$20,793

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 69 of 73

	Electric Programs							
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs			
	AMPEDUC TLC	3,583	\$180	\$644,906				
	AMPWx DelFuel	573	\$5,000	\$2,865,000				
	AMPWx Elec	36	\$5,000	\$180,000				
	AMPDHWELEC	72	\$20	\$1,433				
	AMPDHWGAS	72	\$20	\$1,433				
	AMPDHWOIL	72	\$20	\$1,433				
	AMPWATERBED	1	\$650	\$650				
	Early Retirement CW Elec DHW & Elec Dryer	107	\$700	\$74,900				
	Early Retirement CW Elec DHW & Gas Dryer	341	\$700	\$238,700				
	AMPACREPLACE	1,875	\$350	\$656,250				
	AMPHEATSYSTEM	430	\$5,000	\$2,149,686				
	AMPMinisplit Heat Pumps Electric Resistance	48	\$15,000	\$720,000				
	AMPProgrammable Thermostat, Gas	25	\$125	\$3,125				
Income Eligible	AMPProgrammable Thermostat, Oil	25	\$125	\$3,125				
	AMPProgrammable Thermostat, Other	25	\$125	\$3,125				
Single Family	AMPTHERMOSTAT, Electric	25	\$125	\$3,125				
	AMPLED Bulbs	46,577	\$9	\$395,901				
	AMPAPREMOV	7	\$51	\$357				
	AMPDehumidifier Rebate	625	\$250	\$156,250				
	AMPSmart Strip	4,299	\$20	\$85,980				
	Early Retirement CW Gas DHW & Elec Dryer	5	\$700	\$3,500				
	Early Retirement CW Gas DHW & Gas Dryer	229	\$700	\$160,300				
	Early Retirement CW Oil DHW & Elec Dryer	135	\$700	\$94,500				
	Early Retirement CW Propane DHW & Elec Dryer	9	\$700	\$6,300				
	AMPFREEZER	247	\$550	\$135,850				
	AMPRefrig rebate	1,866	\$1,050	\$1,959,300				
	Program Planning & Administration		-		\$335,953			
	Marketing	-			\$135,023			
	Sales, Technical Assistance & Training	-			\$1,965,905			
	Evaluation & Market Research	-			\$72,493			

Electric Programs						
Program	Measure	Units	Incentive	Total	Shared Costs	
Trogram	Wedsure	Offics	/ Unit	Incentives	Silarea costs	
	Participant (NEB)	3,600	Average Incentive based			
	Custom	45	on measur			
	AIR SEALING ELEC WITH AC	100	applied per participant			
	AIR SEALING OIL	100	(see lin	e below)		
	INSULATION ELEC WITH AC	100				
	INSULATION OIL	100				
	AERATOR Elec	100				
	AERATOR Oil	100				
	SHOWERHEAD Elec	100				
l	SHOWERHEAD OIL	100				
	TSV Showerhead Elec	100				
	THERMOSTAT Elec with AC	200				
	THERMOSTAT OIL	50				
	Common Ext LED Bulbs	50				
Income Eligible	Common Ext LED Fixture	50				
Multifamily Retrofit	Common Ext Reflector	3				
a.ca,cc.oc	Common Int LED Bulbs	50				
	Common Int LED Fixture	700				
	Common Int Reflector	7				
	Dwelling Ext Reflector	7				
	Dwelling Int EISA Exempt	17				
	Dwelling Int LED Bulbs	100				
	Dwelling Int Reflector	7				
	Smart Strip	50				
	Refrig rebate					
	Vending Miser					
	Participants	3,600	\$840	\$3,024,000		
	Program Planning & Administration	=			\$113,818	
	Marketing	-			\$14,147	
	Sales, Technical Assistance & Training	-			\$344,088	
	Evaluation & Market Research	-			\$39,770	
	Thermostats New	2,692	\$45	\$121,140		
	Thermostats Existing	6,409	\$20	\$128,180		
	Pool Pumps	25	\$120	\$3,000		
Residential						
ConnectedSolutions	Program Planning & Administration				\$37,984	
	Marketing				\$11,343	
	Sales, Technical Assistance & Training				\$368,386	
	Evaluation & Market Research				\$37,395	

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 71 of 73

Table 4. Natural Gas Programs

	Gas Programs						
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs		
EnergyStar®	BOILER RESET	10	\$225	\$2,250			
HVAC	Boiler90	0	\$450	\$0			
	Boiler95	460	\$1,000	\$460,000			
	COMBO CONDENSING	0	\$600	\$0			
	COMBO CONDENSING 95	1350	\$1,200	\$1,620,000			
	ENERGY STAR COND WATER HEATER 0.80 UEF	5	\$250	\$1,250			
	Furnace95ECM	340	\$500	\$170,000			
	Furnace97ECM	120	\$800	\$96,000			
	HEAT RECOVERY VENT	10	\$500	\$5,000			
	ENERGY STAR STORAGE WATER HEATER .64 UEF (med draw)	45	\$100	\$4,500			
	ENERGY STAR STORAGE WATER HEATER .68 UEF (high draw)	50	\$100	\$5,000			
	ENERGY STAR ON DEMAND WATER HEATER 0.87 UEF	300	\$600	\$180,000			
	LOW_FLOW_SHOWERHEAD	325	\$7	\$2,113			
	TSV	16	\$12	\$184			
	TSV_SHOWERHEAD	120	\$15	\$1,800			
	WiFi Thermostat cooling and htg	160	\$75	\$12,000			
	WiFi Thermostat gas ht only	1800	\$75	\$135,000			
	Programmable Thermostat	200	\$25	\$5,000			
	Combo Furnace	20	\$700	\$14,000			
	Water Heater, Indirect, Gas	187	\$400	\$74,800			
	Program Planning & Administration				\$113,611		
	Marketing				\$206,854		
	Sales, Technical Assistance & Training				\$238,675		
	Evaluation & Market Research				\$114,427		
	Aerator	500	Average Ince	ntive based on			
	Weatherization	2024		and is applied			
	Air Sealing Kit (Gas)	594	per particip	ant (see line			
	Showerhead	500	bel	low)			
	Pipe Wrap	5123					
EnergyWise	THERMOSTAT	1550					
<i>5.</i>	WiFi THERMOSTAT	261					
	Participants	1,761	\$3,997	\$7,037,705			
	Program Planning & Administration				\$199,942		
	Marketing				\$71,069		
	Sales, Technical Assistance & Training				\$1,173,301		
	Evaluation & Market Research				\$163,914		

Gas Programs							
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs		
	Air Sealing_MF	3900					
Multifamily	CUST NONLGT_MF	20					
	Duct Sealing_MF	140					
	Faucet Aerator_MF	500	Average Incentive				
	INSULATION_MF	3600	mix and is applie				
	Pipe Wrap (Water Heating)_MF	882	(see iin	e below)			
	Programmable Thermostat_MF TSV Showerhead_MF	500 200					
	WiFi thermostat gas_MF	200					
	Participant_MF	4000	\$304	\$1,216,000			
	Program Planning & Administration		·	. , ,	\$47,53		
	Marketing				\$69,75		
	Sales, Technical Assistance & Training				\$153,56		
	Evaluation & Market Research				\$15,14		
	New movers dual fuel	10342	\$0	\$0			
	Optout dual fuel	123401	\$0	\$0			
	Optout gas only	18581	\$0	\$0			
Home Energy Reports	Refill				\$9,64		
	Program Planning & Administration				\$2		
	Marketing				\$429,11		
	Sales, Technical Assistance & Training				\$3,16		
	Evaluation & Market Research						
	CODES AND STANDARDS	1					
	СР	15					
	CPDHW	15					
	RR CP	9					
	RR CPDHW	9					
	RR Tier 1	10					
	RR Tier 1 DHW	10					
	RR Tier 2	10					
	RR Tier 2 DHW	10					
	RR Tier 3	2					
	RR Tier 3 DHW	2	_	based on measure			
Residential New	RR Tier 4	0	mix and is applie				
Construction	RR Tier 4 DHW	0	(see lin	e below)			
	SHOWERHEAD	21					
	Tier 1	46					
	Tier 1 DHW	46					
	Tier 2	98					
	Tier 2 DHW	98					
	Tier 3	15					
	Tier 3 DHW	15					
	Tier 4	0					
	Tier 4 DHW	0					
	Adaptive Reuse	83					
	Participants	289	\$1,148	\$332,161			

The Narragansett Electric Company d/b/a/ National Grid Docket No. XXXX Annual Plan Attachment 1 Page 73 of 73

Program Planning & Administration		\$34,468
Marketing		\$2,196
Sales, Technical Assistance & Training		\$134,989
Evaluation & Market Research		\$88,836

	G	as Programs			
Program	Measure	Units	Incentive / Unit	Total Incentives	Shared Costs
	HEATSYSTEM	280	\$5,000	\$1,400,000	
	WEATHER	704	\$5,000	\$3,520,300	
	Participants	818	\$6,131	\$5,016,386	
Income Eligible Single Family	Program Planning & Administration				\$131,061
,	Marketing				\$25,934
	Sales, Technical Assistance & Training				\$1,165,624
	Evaluation & Market Research				\$28,121
	Air Sealing_LI	420			
	BOILER Commercial_LI	65			
	BOILER_LI	30			
	CUST NONLGT_LI	9	Average In		
	Faucet Aerator_LI	900	measure mix		
	Insulatioin_LI	1000	participant		
Income Eligible	Pipe Wrap (Water Heating)_LI	500			
Multifamily	Programmable Thermostat_LI	300			
	TSV Showerhead_LI	200			
	Participant (NEB)_LI	3150	\$786	\$2,474,500	
	Program Planning & Administration				\$70,834
	Marketing				\$10,877
	Sales, Technical Assistance & Training				\$362,626
	Evaluation & Market Research				\$29,979