

RHODE ISLAND

2018 Annual Energy Efficiency Plan

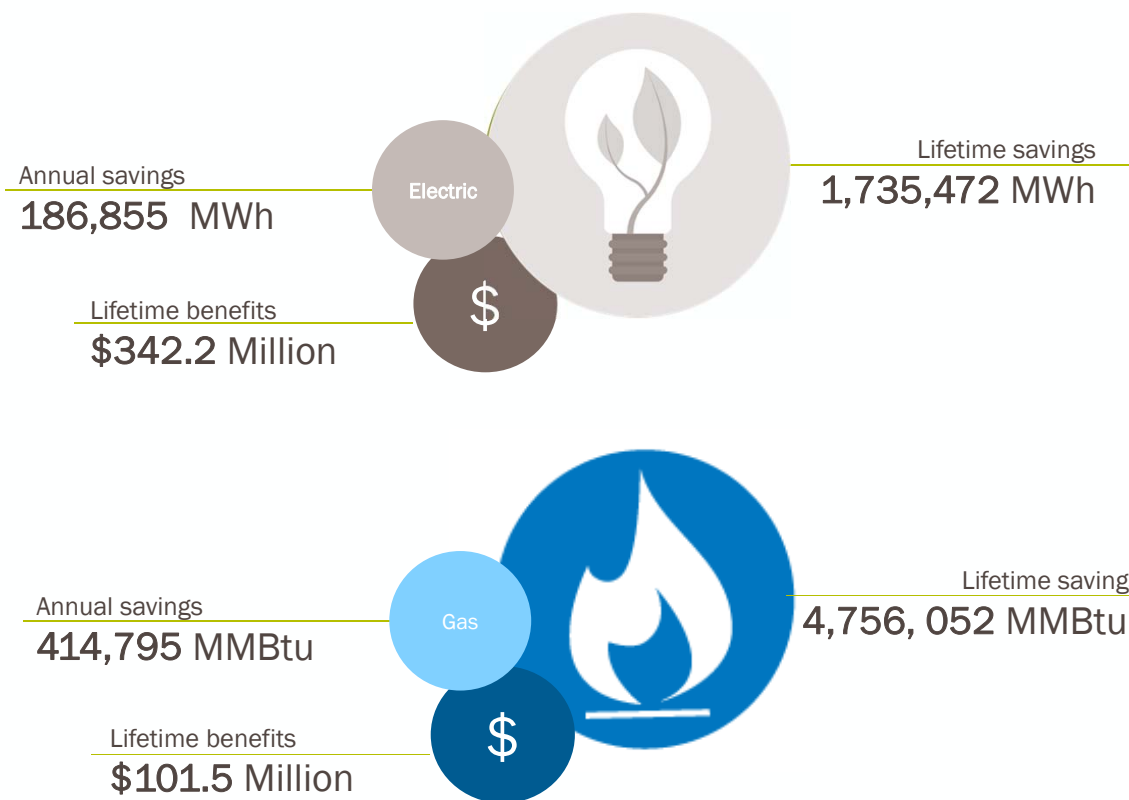


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The Purpose of the 2018 Annual Plan

- Provide customers with the tools needed to take control of their energy usage and save money
- Meet the energy savings targets in the Three-Year Plan
- Innovate for the future
- Reduce carbon emissions





- Electric reduction goal of 2.50%
- Natural Gas reduction goal of 1.01%
- Maintains Rhode Island's leadership in energy efficiency:
 - One of only **three states** in the country with an electric reduction goal above 2%

To: Honorable Senator Jack Reed
Chapel View Boulevard Suite 290
Cranston, RI 02920-3074

Barrington, RI 02806

Subjects : Statewide Weatherization Assistance Program and Energy Audit.

Thanks to you, National Grid and the East Bay Community Action Program my home was upgraded to the Program standards for a home of my type (one level ranch with a full basement). We have already noticed a difference in the comfort level with no changes to the thermostat settings. The Cross Company of Smithfield, RI accomplished the task with great skill and attention to detail. The crew was extremely courteous and considerate leaving no trace of any bits or pieces of refuse.

An energy audit was also conducted by an EBCAP representative that resulted in the replacement of light bulbs and of energy inefficient appliances.

Sincerest Appreciation to all parties involved in the



Letter: RI Energy Challenge helps town, residents

Dec 7, 2017 0

f t e p m

The Rhode Island Energy Challenge is an energy efficiency campaign designed to help you, your neighbors and our town. We need just 50 more households to sign up in the next two weeks for North Kingstown to become a Rhode Island Energy Champion and the town will receive a \$10,000 grant for an energy-efficiency project on municipal property. Everyone be!

ONLINE POI

Does your town have a favorable climate?

☐ Yes

This "Thank you note" is to let you know how happy we were to receive the help from CCAP this year. Beginning with "Heating" was diagnosed w/ chronic + didn't work for a long time. We qualified for a funding grant. They were going to replace the boiler but it passed by several points on an efficiency scale. Since then we have had a friend do every season just to maintain service + good price. This year we had our regular oil man work on it. We came 3x in the w/ insulation to outside tank. We didn't have anywhere else for oil tank. We had assistance again 'til now. Husband + I both had back surgery within last 2 yrs + neither of us is working anymore.

Residential Programs Offerings

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Residential Program | HIGHLIGHTS



Enhanced and coordinated approach to income eligible



Additional financing evaluation and opportunities



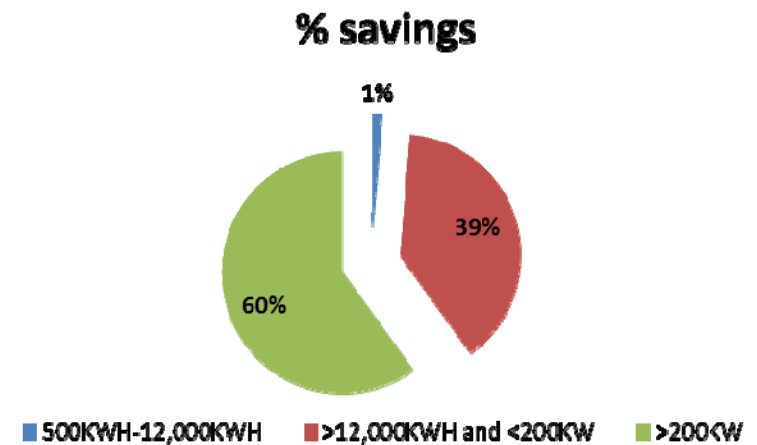
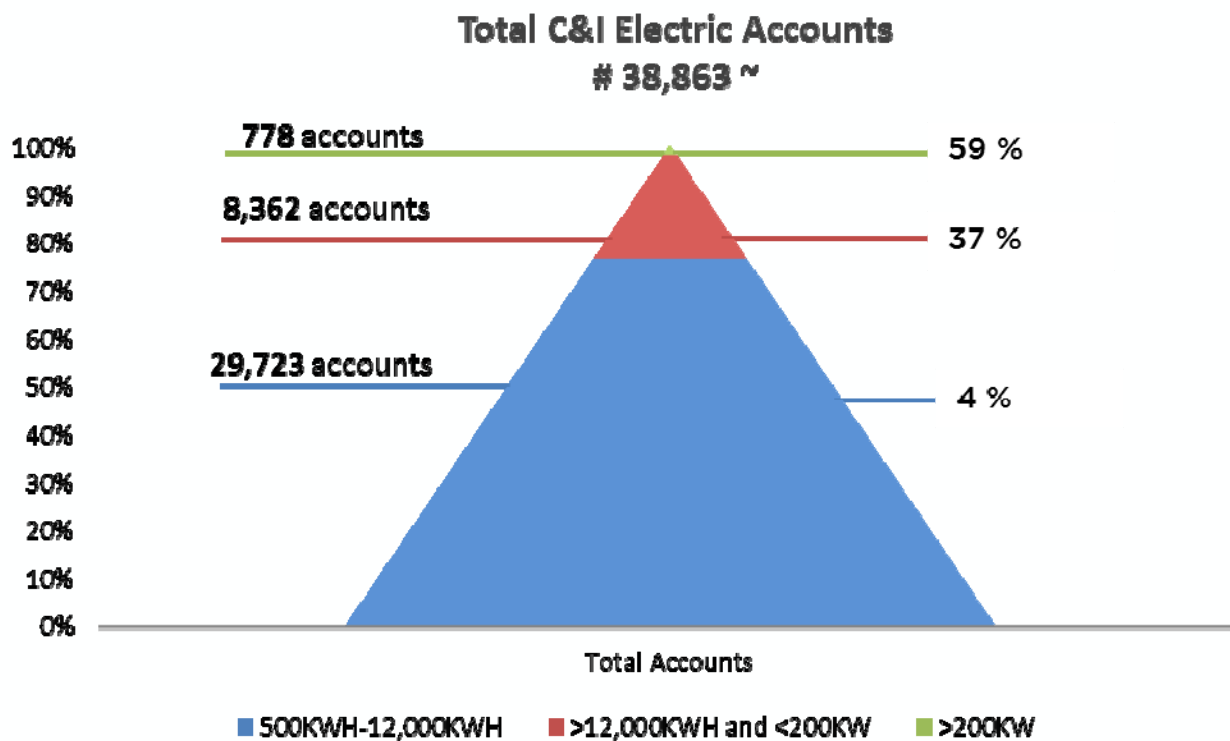
Increase incentives for delivered fuel customers



Design and introduction of beneficial electrification



Pilot demonstrations and research to investigate future offerings



- Large C&I Customers – Retrofit and NC programs
- Small Medium Business Customers – SMB Direct Install Program
- All customers - Upstream Program

Commercial and Industrial

2018:

CENTRAL THEMES & HIGHLIGHTS



AUTOMATED
BENCHMARKING
SYSTEMS



STRATEGIC ENERGY
MANAGEMENT
(SEM)



NEW
CONSTRUCTION



PILOTS AND
DEMONSTRATIONS



FINANCE

FINANCE HIGHLIGHTS



- **COMMERCIAL**

- Build on previous research as well as input from internal and external stakeholders
- Develop and launch appropriate pilots

- **RESIDENTIAL**

- Research customers served and new opportunities for HEAT loan
- Capital Good Fund revolving loan fund
- Support RIIB residential offering

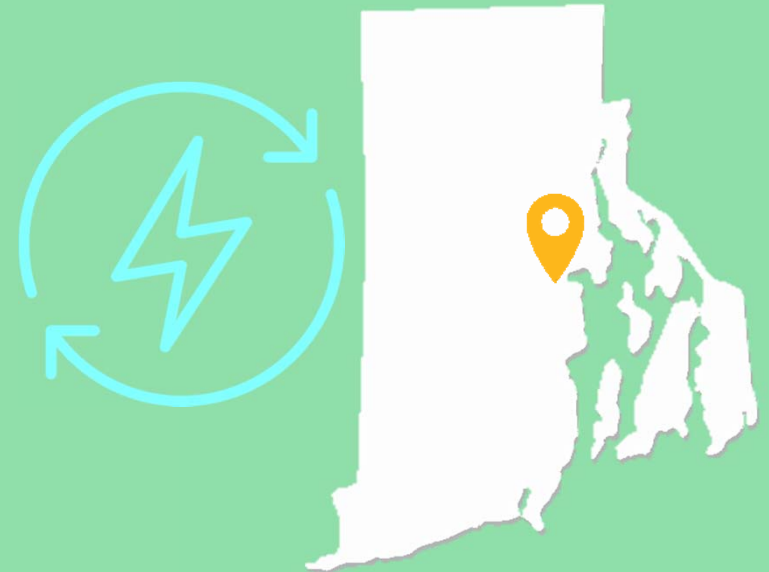
RESIDENTIAL

- Emerging Lighting Controls
- Connected Device Demonstration
- Energy Storage Research
- Home Energy Monitoring
- Zero Energy Homes

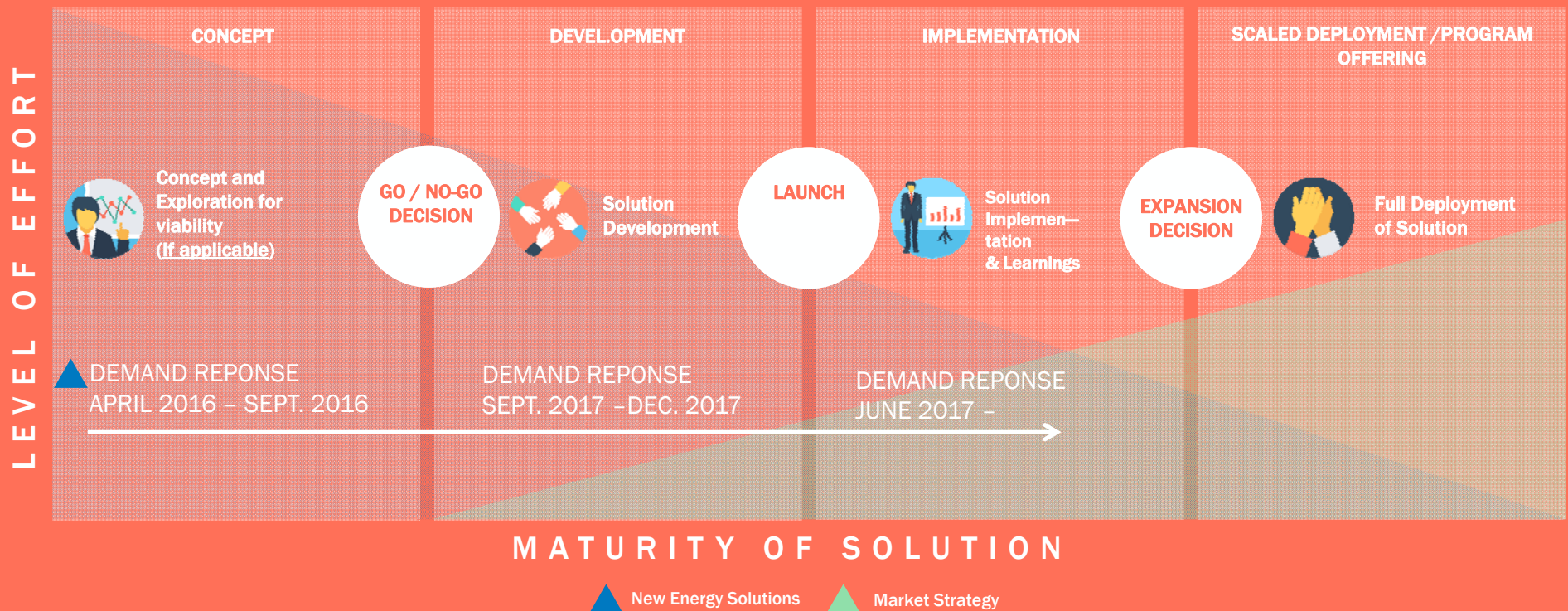
COMMERCIAL

- Demand Response C&I
- Demand Response DLC SMB
- Gas Demand Response
- Zero Energy Buildings
- Emerging Lighting Pilots
- Web-based performance Lighting PLUS App
- Zero Energy Buildings
- Online Trade Ally Training on Advanced Lighting Systems
- Energy Efficiency upgrades in Pumping Station
- Behavior Change through education in small /medium plants

PILOTS AND DEMONSTRATIONS

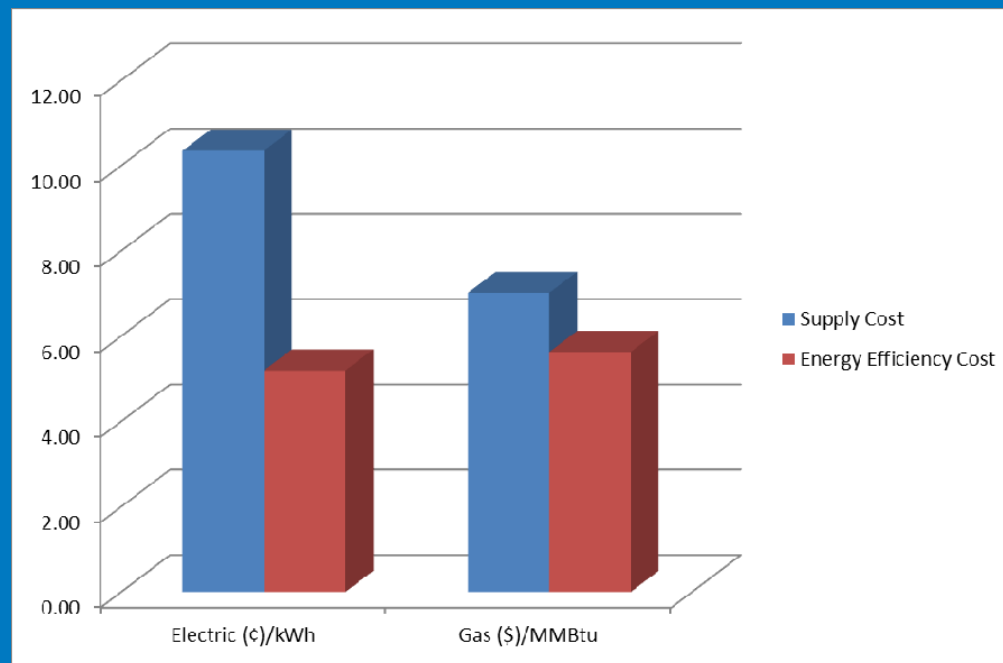


End to End Solution Development Process Flow



Update to Cost of Supply Methodology

- EERMC discussion prompted review of methodology
- Updated method based on industry best practices (ACEEE and LBNL)
- Two changes:
 - Uses weighted average supply cost across all customers segments
 - EE cost = Company's cost
- Legal counsel for EERMC found method is consistent with LCP statute



BUDGET CAP

IMPACT

- Reduces savings and benefits
- Without budget cap in place, 2018 Plan could have created:
 - 3,612 more Annual MWh savings
 - 54,191 more Lifetime MWh savings
 - 72,902 more MMBtu oil saving
 - \$14.9 million more in lifetime benefits
- Cuts made in consultation with Collaborative according to a set of principles: no cuts to income eligible, reduce losses to jobs, audits, and energy savings, and limit reductions to pilots
- Cuts were made strategically to lessen impact on customers and savings

Key Finding - Over the lifetime of the programs proposed in the 2018 Annual Plan, the average Rhode Island customer's bill will be less than if there were no programs.

Customer Segment	Average Customer Savings %	Average Customer Savings \$'s	Average Participant Savings %	Average Participant Savings \$'s
Residential	0.93%	\$22.64	1.24%	\$30.34
Income Eligible	2.53%	\$54.60	6.19%	\$133.51
Small C&I	0.60%	\$46.24	12.60%	\$962.77
Medium C&I	1.30%	\$288.56	10.84%	\$2,410.18
Large C&I	1.69%	\$8,085.16	3.92%	\$19,043.56

