



R.I. OFFICE OF ENERGY RESOURCES  
Becca Trietch, Administrator, Energy Efficiency



# Rhode Island Energy Efficiency Policies & Programs



# Policies



# KEY STATUTES:

**RIGL§ 39-1-27.7 – LCP**

**RIGL§ 39-1-27.7.1 – Revenue Decoupling**

## **LEAST COST PROCUREMENT:**

Invest in all prudent & reliable, cost-effective energy efficiency less than the cost of supply



## Clean

*Reduce carbon-intensity of supply portfolio*



## Affordable

*Consumer cost as a lens for all policies, from procurement to investment*



## Reliable

*Invest in a diverse resource portfolio through infrastructure, supply and system redesign*

Principles for Policy and Programmatic Decision-Making

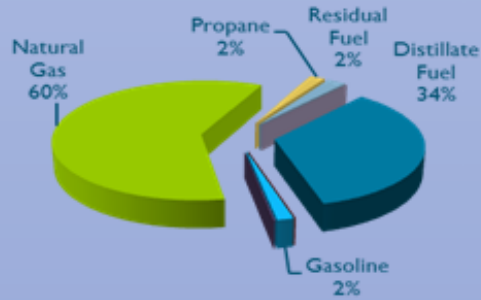
# RI Office of Energy Resource's Mission

# State Energy Plan (2015)



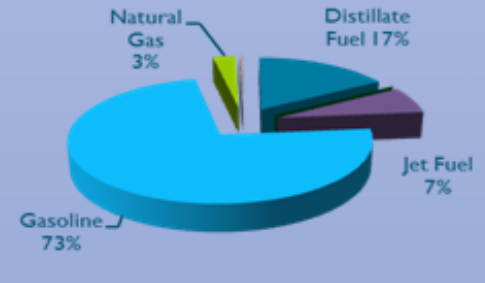
**Electric**

63 Trillion BTU  
\$1.1 Billion/Year  
2.9 Million Tons CO<sub>2</sub>



**Thermal**

63 Trillion BTU  
\$1.1 Billion/Year  
3.9 Million Tons CO<sub>2</sub>



**Transportation**

64 Trillion BTU  
\$1.4 Billion/Year  
4.5 Million Tons CO<sub>2</sub>

*RI spends \$3.6 billion annually on 190 trillion BTU of energy, emitting 11 million tons of CO<sub>2</sub>*

<http://www.planning.ri.gov/documents/LU/energy/energy15.pdf>

Energy  
Efficiency

Electric

Thermal &  
Transportation

Security

Cost-  
Effectiveness

Sustainability



Ensure Public Benefit



Make  
Recommendations



Monitor and Evaluate

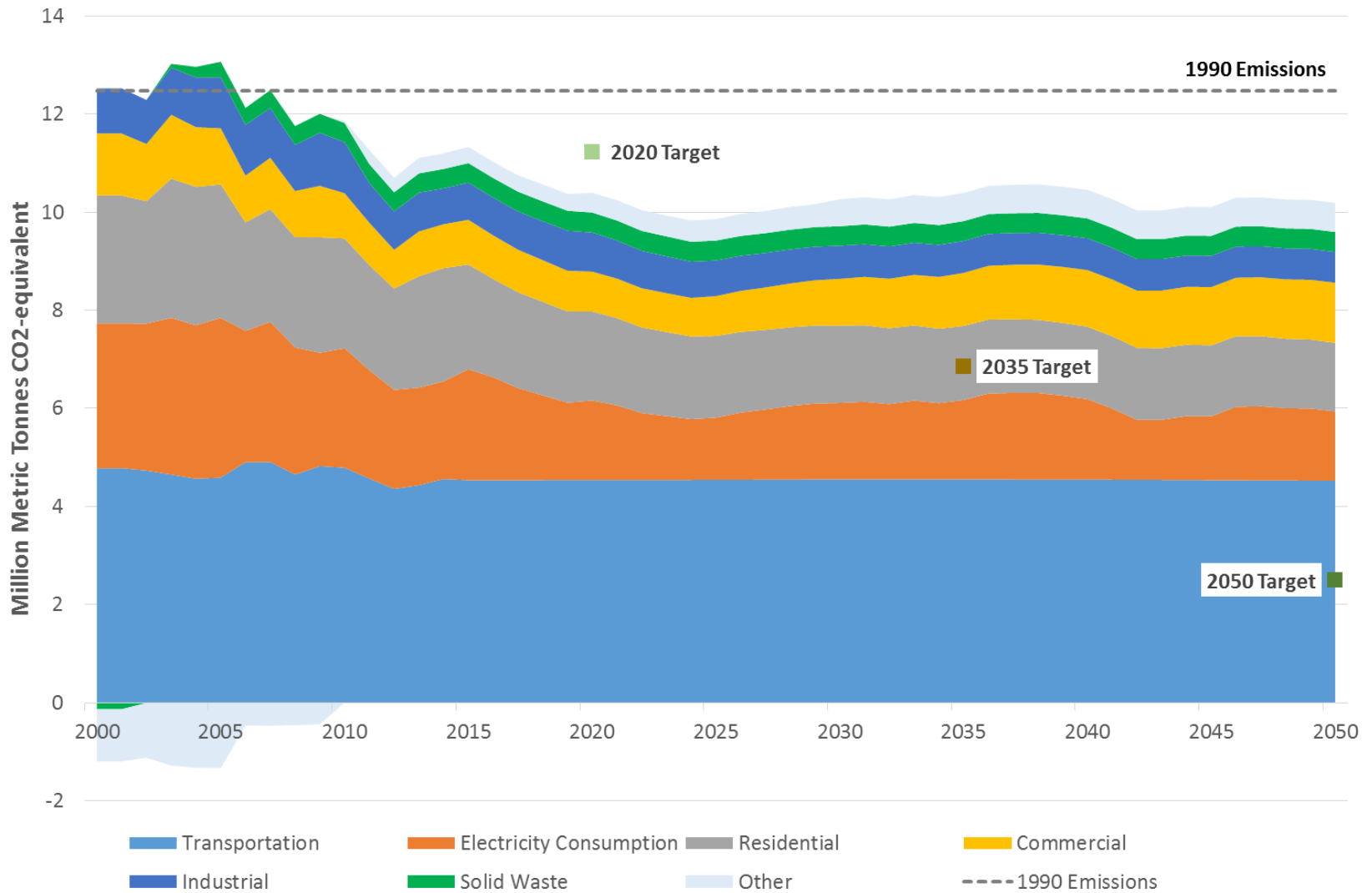


Engage Stakeholders

As the Executive Director of the EERMC, OER holds these responsibilities too

# Resilient RI Act

## Rhode Island Business-as-Usual GHG Projection





# Rhode Island's Green Buildings Act ([RIGL § 37-24](#))

All new construction projects over 5,000 gsf, and all renovation projects over 10,000 gsf, constructed by a “public agency” must be designed and constructed to the LEED Certified or equivalent high performance green building standards.





## Governor Initiatives

# Governor Raimondo's Clean Energy Goals:

20,000 CLEAN ENERGY JOBS BY 2020

1,000 MW BY 2020



# 2018 Rhode Island Clean Energy Jobs *At-A-Glance*

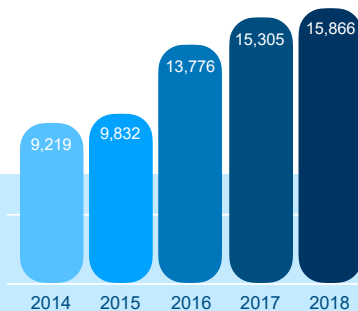
# 15,866

Clean Energy Jobs



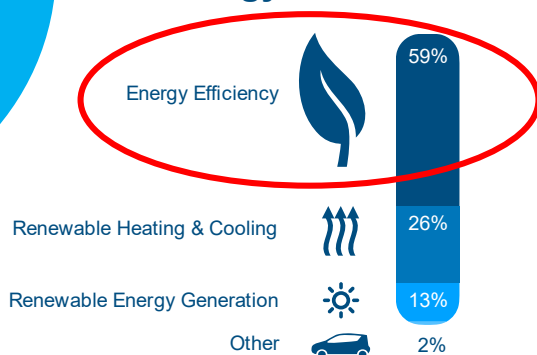
# 72%

Growth in clean energy workforce since 2014



Creating  
local clean  
energy  
jobs

## Energy Sectors



# 800+

New construction jobs and **50 permanent jobs** projected with new offshore wind farm



# Clean Energy Internship Program

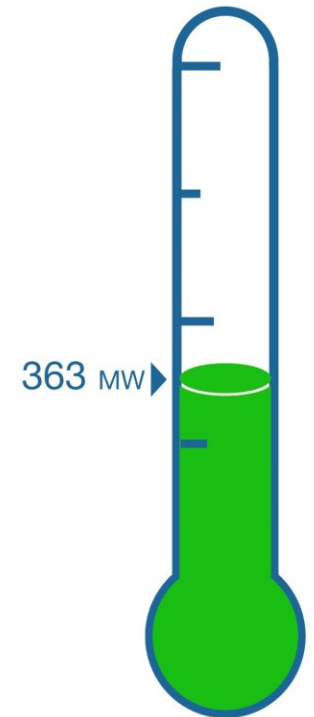
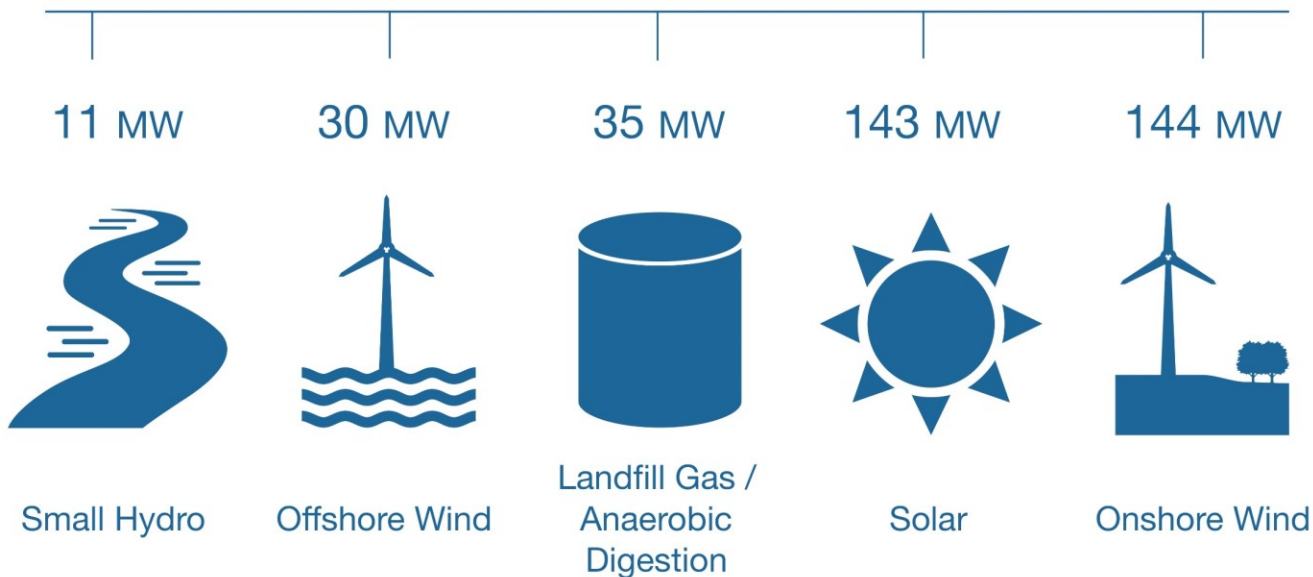
- \$60,000 for Summer 2019
- Approximately 10 interns
- Eligible students – live in RI or attend school in RI
- Will match students with energy companies
- Reimbursement to companies after Summer
- Similar to MassCEC Internship Program

**2018  
Qtr. 4**

# Clean Energy Portfolio

**1,000 MW**  
by 2020

## 363 Megawatts



# UTILITY SCALE PROCUREMENTS

A photograph of an offshore wind farm at sunset. The sun is low on the horizon, creating a bright, shimmering reflection on the dark blue water. Several wind turbines are visible, their silhouettes and towers extending into the sea. The sky is a clear, deep blue.

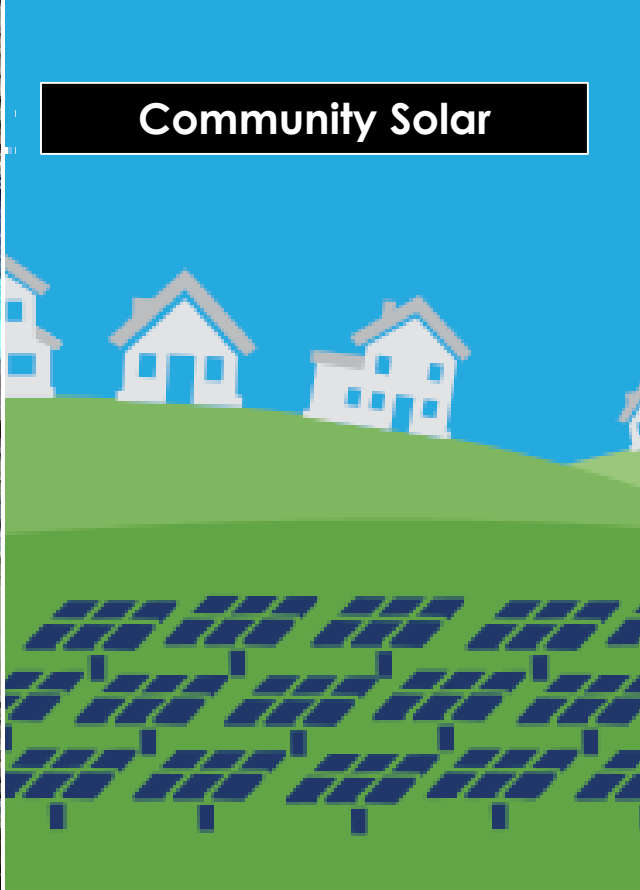
**Other Clean Energy RFPs in the future**

**Revolution Wind – 400 MW  
Offshore Wind**

**Brownfield Solar Pilot**



**Community Solar**



**Solar Canopy Incentives**



# Siting Considerations

# LEADING BY EXAMPLE







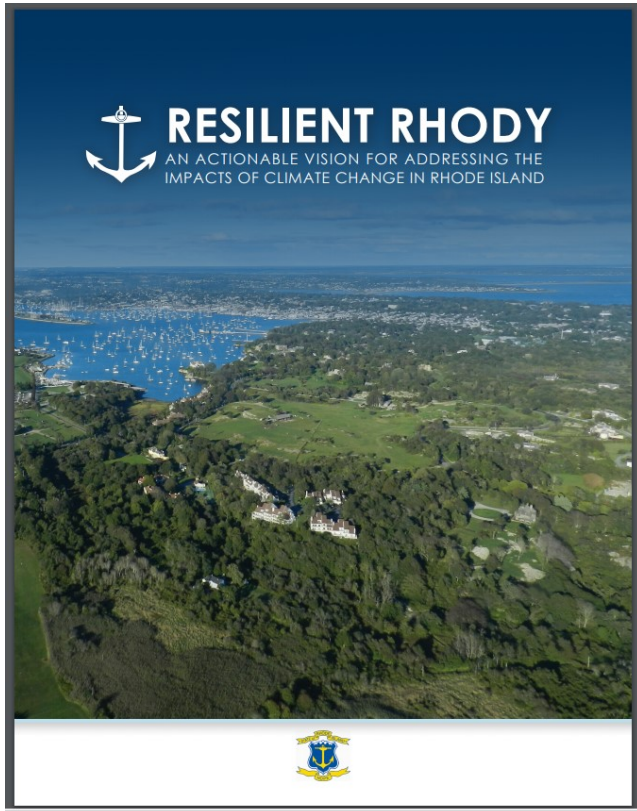
## Governor Raimondo has set clear Lead By Example goals, including:

1. 10% reduction in energy consumption (electric & natural gas) below FY14 levels by FY19
2. Procure 100% State government electric consumption from renewables by 2025
3. Ensure a minimum of 25% new light-duty fleet purchases or leases are from zero-emission vehicles by 2025
4. Establish a voluntary stretch building code by 2017
5. Consider full life-cycle costs and savings in planning and implementing projects
6. Post State energy usage data publicly



# RI Zero Emission Vehicle (ZEV) Action Plan

- In 2013, 8 states signed an MOU to reduce GHG and smog emissions from vehicles
- RI has committed to a goal of **43,000 ZEVs on the road by 2025**



# Governor's Executive Order on Climate Change & Resilience

## Outcomes:

- An Action Plan to “stand up to Climate Change”: Resilient Rhody
- On-going coordination by the Chief Resiliency Officer to implement the Resilient Rhody Plan

# 3

## Benefits of Modernizing the RI Electric Grid



Give customers more energy choices.

Clean energy technologies are **more affordable now than ever**. Our utility rules should allow consumers to access and enjoy creative solutions to manage their energy production and use.

Build a flexible grid to integrate more clean energy.

The Governor's goal of **1,000 megawatts of clean energy by 2020** will bolster our growing local clean jobs economy and help us meet state climate goals.



Control the long-term costs of the electric system.



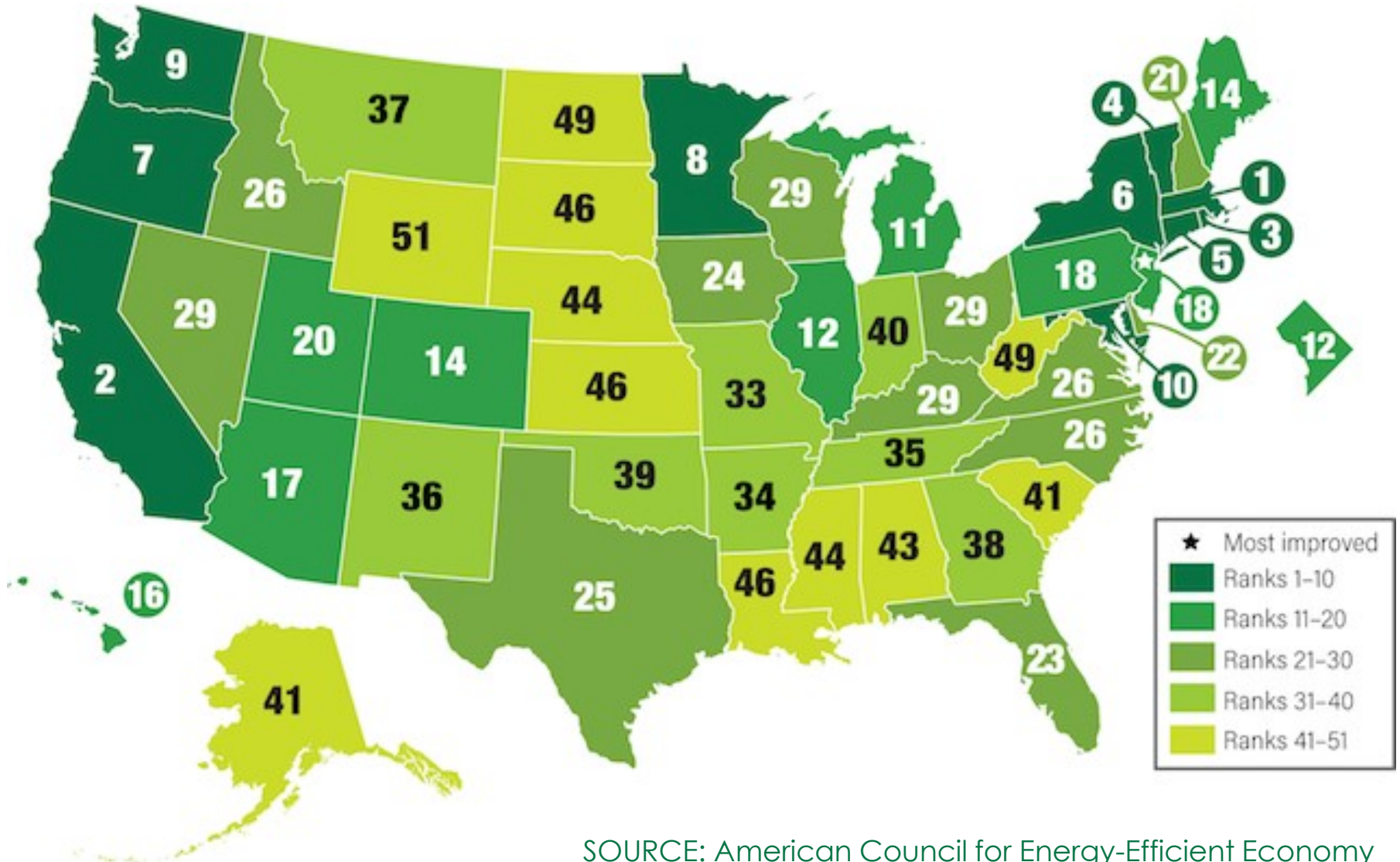
Today's electric grid is built for peak usage. That's like constructing a **100-lane highway for Thanksgiving traffic**. New technology provides us with more ways to right-size the system to Rhode Islanders' needs.

# Energy Efficiency Programs



# RI NOW RANKS #3 IN US FOR EFFICIENCY PROGRAMS

Only behind MA and CA



SOURCE: American Council for Energy-Efficient Economy



## Sample Energy Efficiency (EE) Upgrades:

- LED light bulbs
- Insulation
- Efficient HVAC systems
- Air sealing
- EnergyStar Appliances

## For Customers, EE Programs Provide:

- Incentives/Rebates and Financing for doing EE upgrades
- Technical Assistance & Access to Qualified Contractors
- Education on How to Reduce and Manage Energy Usage



# Program Sectors

Residential	Commercial & Industrial	Other Over-Arching Initiatives
Market-rate EnergyWise Program	Large Retrofit Program	Data Access- Green Button & Portfolio Manager
Income Eligible Program	Small Business Program	Code Compliance Enhancement Initiative
Multifamily Program	Specialties: Lodging/Hospitality, Grocery Initiative	Connecting Customers with Financing
New Construction Program	New Construction Program	Products- Rebates & Upstream
Behavior Programs	CHP	Demand Response Programs
Community-Based Initiative	K-12 Schools	
	Strategic Energy Management (SEM- private entities & SEMP – public entities)	



# Participation

From 2012-2017, the Programs reached approximately:

**144,000 electric customers** and

**53,600 gas customers**

in Rhode Island





# Who Administers the Programs?

## National Grid

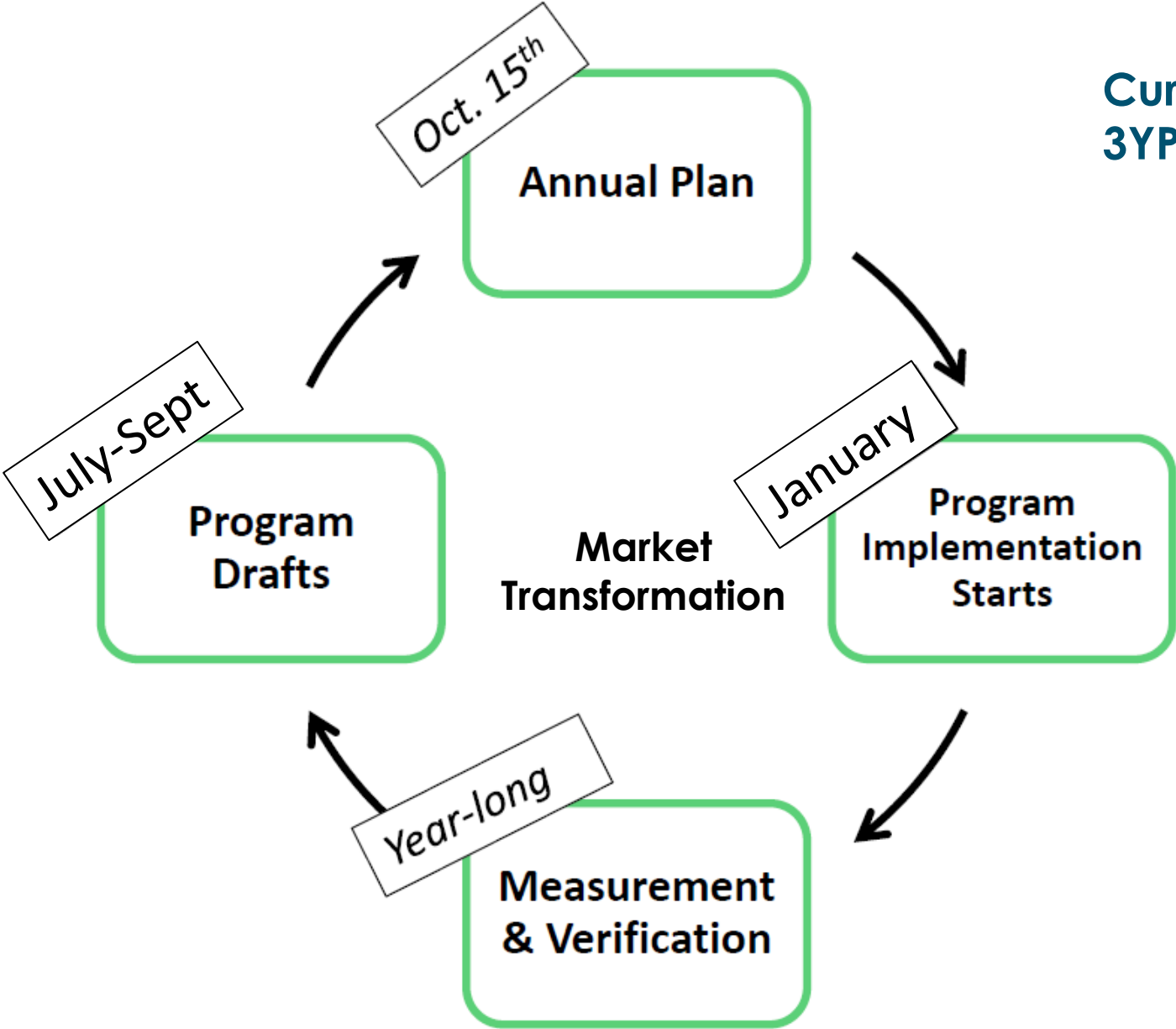
with oversight from:

- RI Energy Efficiency & Resource Management Council (EERMC)
- RI Office of Energy Resources (OER)
- Division of Public Utilities & Carriers (DPUC)
- Public Utilities Commission (PUC)

National Grid also solicits feedback from their technical advisory group called the EE Technical Working Group

# Energy Efficiency Program Development Process

Currently in 4<sup>th</sup>  
3YP (2018-2020)



# 3 Ways you can join the energy efficiency conversation

The Rhode Island Energy Efficiency & Resource Management Council (EERMC) is a group of stakeholders that serves all customers to ensure the utility is investing in the least expensive resource – energy efficiency. Learn more at [www.rieermc.ri.gov](http://www.rieermc.ri.gov)



STATE OF RHODE ISLAND  
**ENERGY EFFICIENCY &  
RESOURCE MANAGEMENT COUNCIL**



Learn about energy efficiency policies and programs in Rhode Island: [www.rieermc.ri.gov](http://www.rieermc.ri.gov) and [www.energy.ri.gov](http://www.energy.ri.gov)



Attend a public EERMC meeting about energy efficiency. Meeting schedules and materials are available online: [www.rieermc.ri.gov](http://www.rieermc.ri.gov)



Public comment is welcome at all EERMC meetings. We want to hear from you!



How do we measure program impacts?

ANSWER:

**PROGRAM  
EVALUATIONS**

# The Evaluation Team

## RI Office of Energy Resources & EERMC Consultant Team

- Oversight Team
- Ensure studies use best practices to quantify program impacts
- Ensure all programs are evaluated at least once every three years

## Independent Evaluators

- Conduct program evaluations

## National Grid

- Provides access to program data
- Facilitates RFP processes

# All evaluations are publicly available on the EERMC website

<https://rieermc.ri.gov/plans-reports/evaluation-studies/>

STATE OF RHODE ISLAND  
ENERGY EFFICIENCY &  
RESOURCE MANAGEMENT COUNCIL

HOME ABOUT MEETINGS & MATERIALS **PLANS & REPORTS** RESOURCES RFPS Q

## Plans & Reports

*Click on one of the buttons below to filter Plans & Reports*

TARGETS ENERGY EFFICIENCY PLANS RESULTS AND REPORTING EVALUATION STUDIES EERMC ANNUAL REPORTS

**COMMERCIAL AND INDUSTRIAL** RESIDENTIAL LOW-INCOME CROSS CUTTING SYSTEM RELIABILITY PROCUREMENT

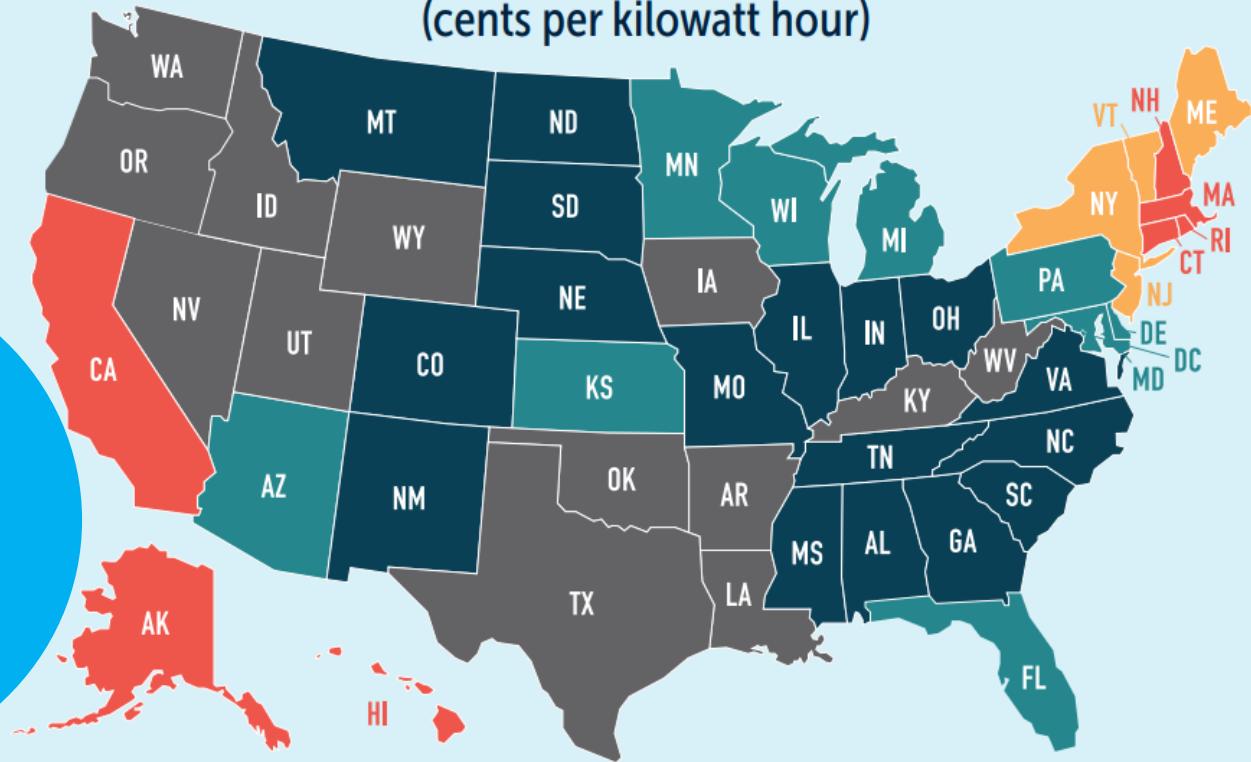
Evaluation studies help to verify and qualify the impact that programs are having on energy savings. These studies are relied upon to inform the planning and development of National Grid's energy efficiency programs and services.

### 2017 Studies

- Gas Boiler Market Characterization Study Phase 2 - Final Report >
- Prescriptive Commercial and Industrial Programmable Thermostat Phase 2 Study >
- Steam Trap Evaluation Phase 2 >
- Final Report on Energy Impacts of Commercial Building Code Compliance in Rhode Island >
- Impact Evaluation of 2014 Custom HVAC Installations >
- Impact Evaluation of PY2015 Massachusetts Commercial and Industrial Upstream Lighting Program >

# Why do we need these programs?

## 2017 U.S. Average Electricity Retail Prices (cents per kilowatt hour)

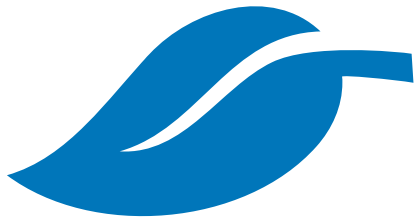


New England  
has some of  
the highest  
energy costs in  
the country



# How do these programs help?

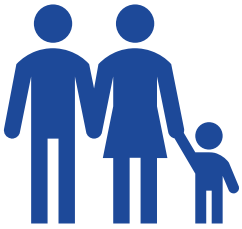
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Savings can be achieved at a fraction of the cost of traditional supply



If we all use less, then we lower energy bills for **everyone**. Using less energy reduces costs to maintain infrastructure.



**Families & businesses spend less on energy**

**Dollars can remain in local neighborhoods**

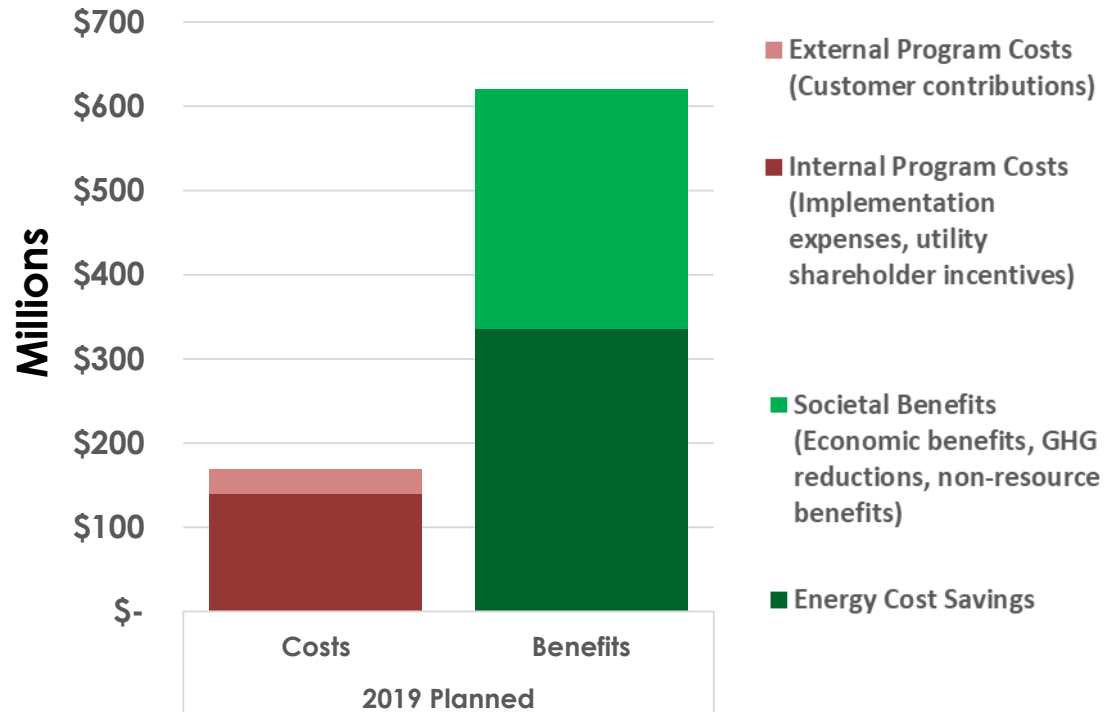


**Energy infrastructure costs & exposure to wholesale price volatility are lowered**

# Expected Program Budget & Benefits: 2019

**\$2.3  
BILLION**

In economic benefits  
since 2006



# Rhode Island's Most Recent Load Forecast

Energy efficiency is working to lower Rhode Island's energy-use forecast

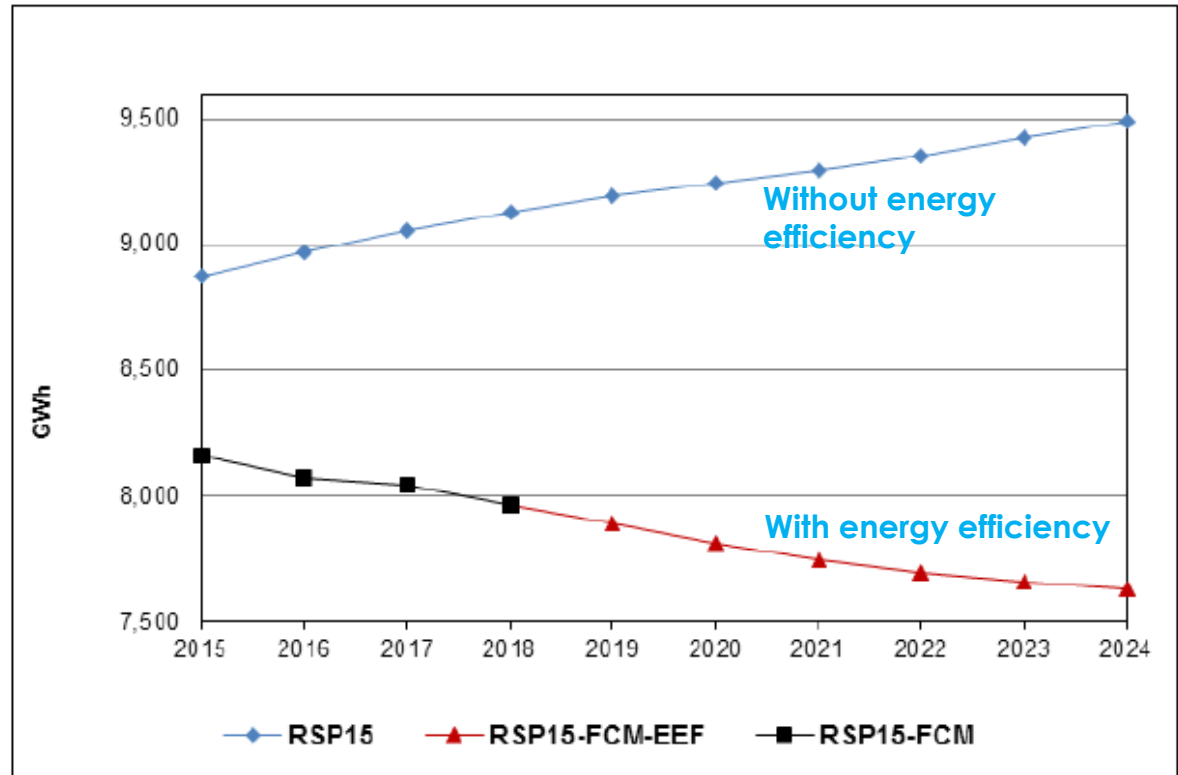
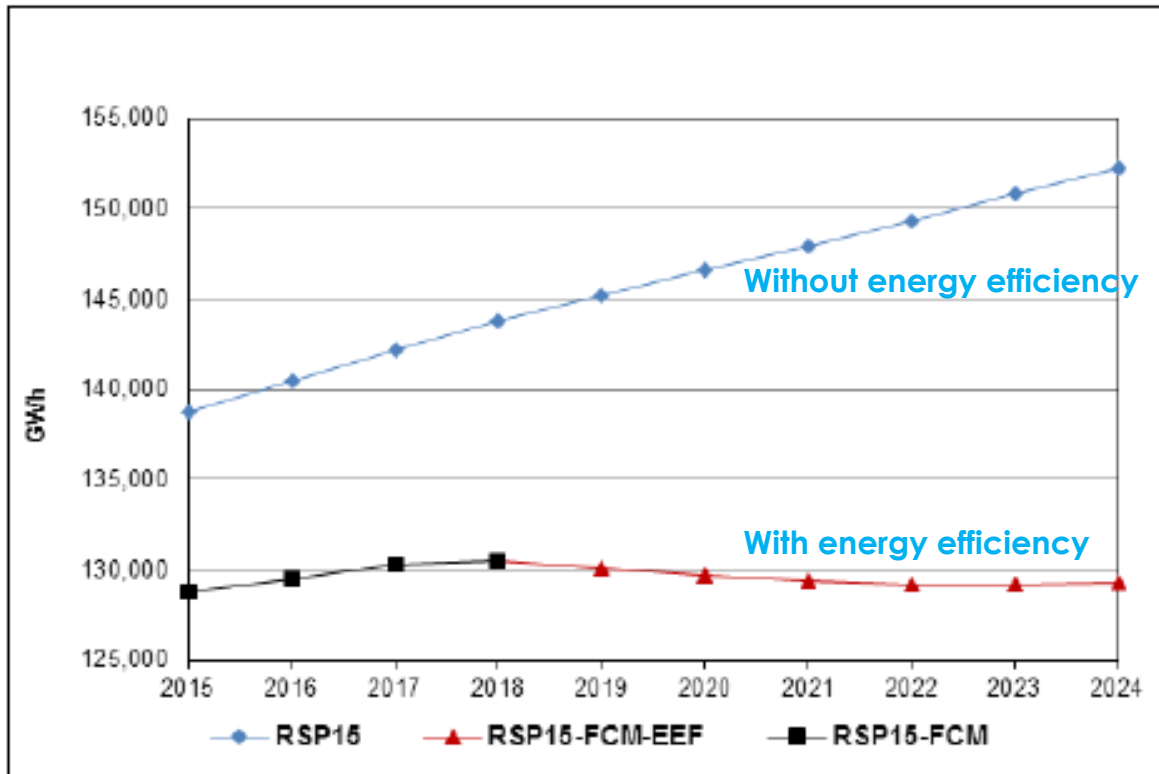


Figure 5-14: Net energy-use load forecast for Rhode Island (diamond), net energy-use load forecast minus FCM #9 results through 2018 (square), and load forecast minus FCM results and minus the energy-efficiency forecast (triangle) for 2019 to 2024 (GWh).

# New England's Load Forecast



Energy efficiency in New England is preventing an increase in energy use

Figure 5-1: Net energy-use load forecast (diamond), net energy-use load forecast minus FCM #9 results through 2018 (square), and load forecast minus FCM results and minus the energy-efficiency forecast (triangle) for 2019 to 2024 (GWh).

## State Energy Efficiency Resource Standards (EERS) May 2019

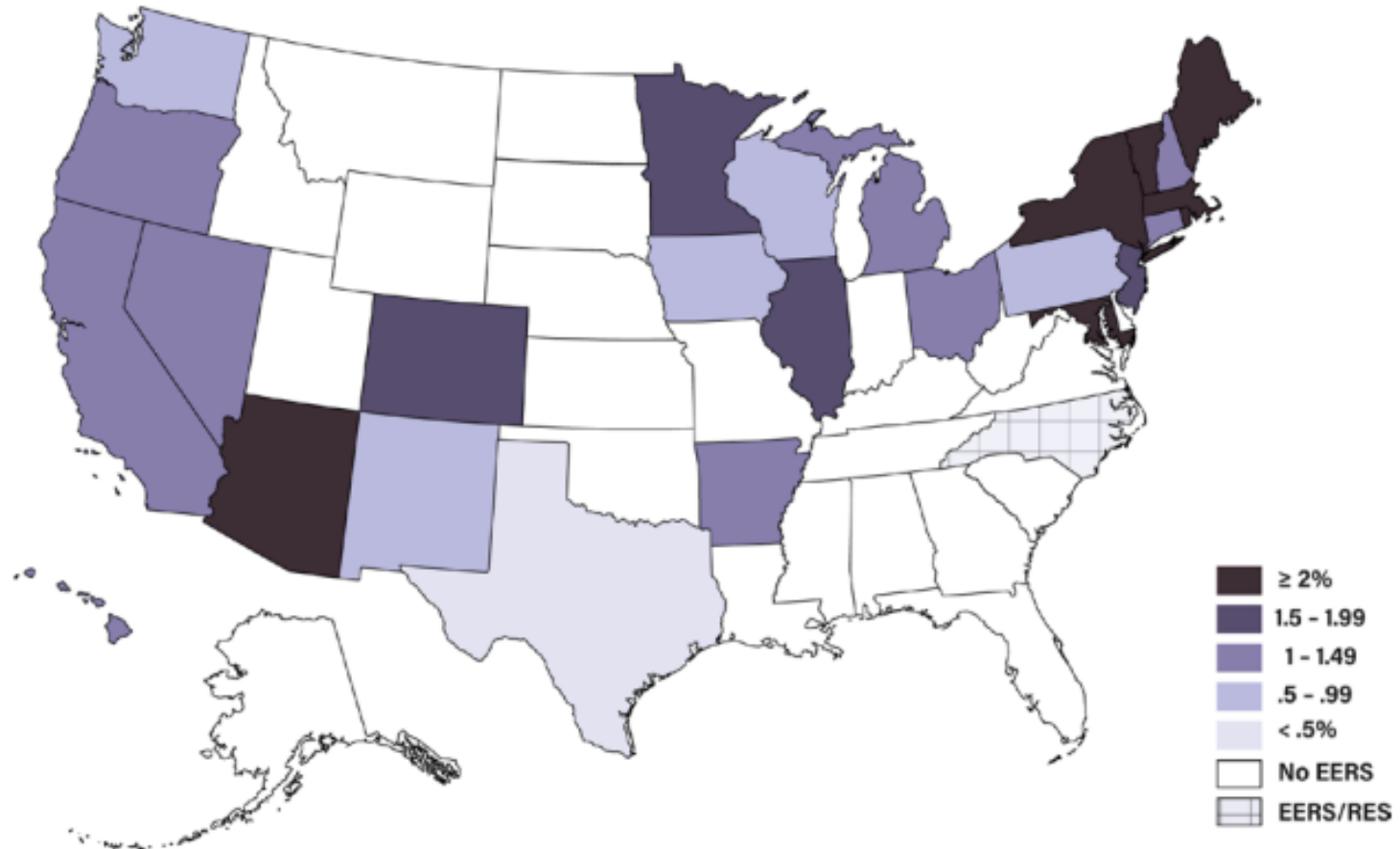
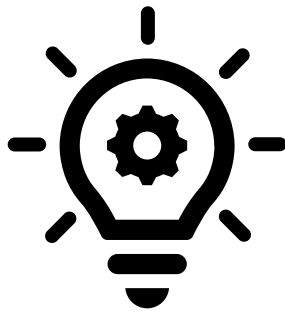
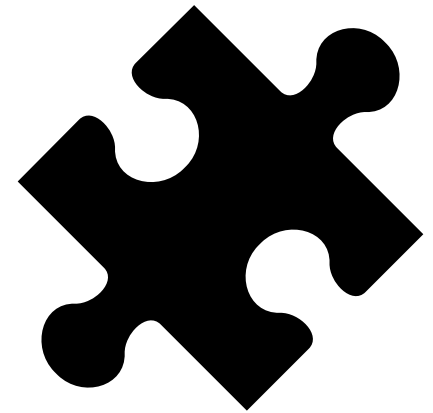


Figure 1. States with electric EERS policies in place (as of May 2019).



# Moving Forward

- Hard-To-Reach Sectors
- Identify Program Gaps
- Heating Electrification
- Demand Response Programs – Residential
- Streamlined Data Access
- Increased coordination with other programs/offerings – Renewable Energy, Energy Storage, EVs, Health & Safety Programs, Income Eligible Offerings



WANT TO  
CONNECT? HAVE  
QUESTIONS?

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