



STATE OF RHODE ISLAND
**OFFICE OF
ENERGY RESOURCES**

4TH Annual Lead by Example Clean Energy Awards

November 16, 2020



Mission statement



The Rhode Island Office of Energy Resources' (OER) mission is to lead the state toward a **clean, affordable, reliable**, and **equitable** energy future.



OER develops policies and programs that respond to the state's evolving energy needs, while advancing **energy security, environmental sustainability**, and a vibrant **clean energy economy**.



OER is committed to working with public- and private-sector stakeholders to ensure that all Rhode Islanders have access to **cost-effective, resilient**, and **sustainable energy solutions**.

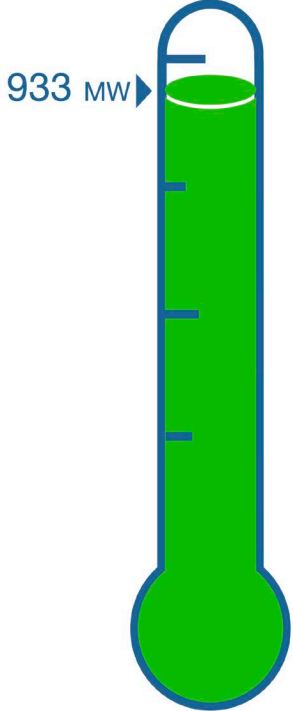
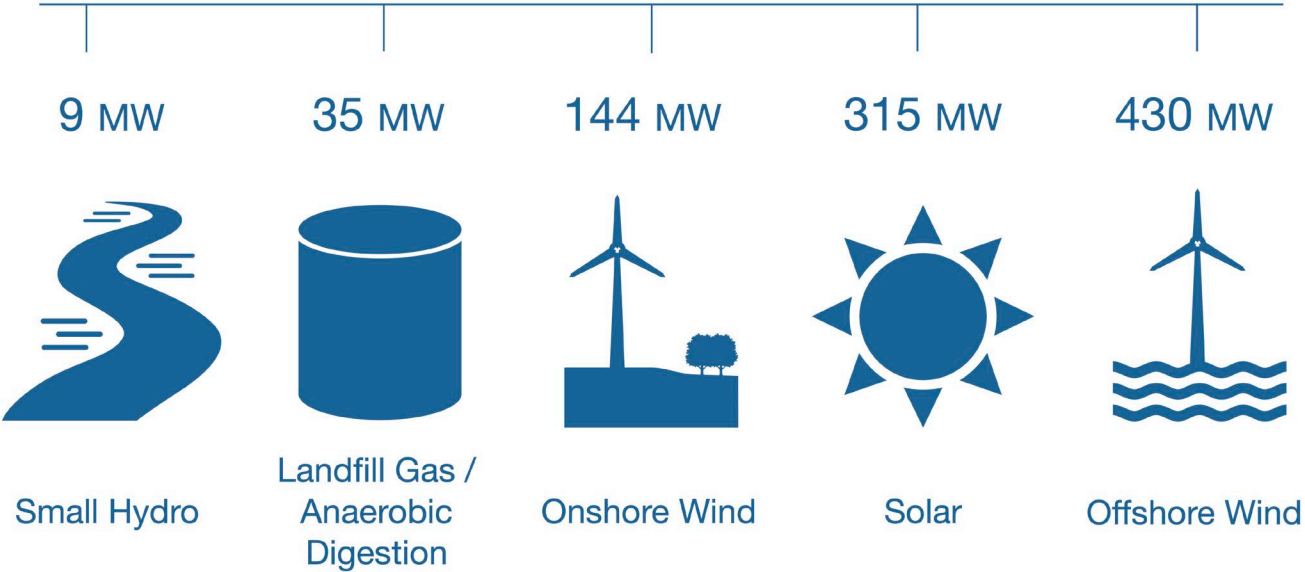
MAJOR INITIATIVES

**2020
Qtr. 3**

Rhode Island Clean Energy Portfolio

1,000 MW
by end of 2020

933 Megawatts



100% Renewable Electricity by 2030 Goal



Meet **100% of statewide electricity demand with renewable energy** by 2030

- This will require adding about **440 GWh per year** on average from 2020 to 2030, **beyond** what existing renewable programs may add



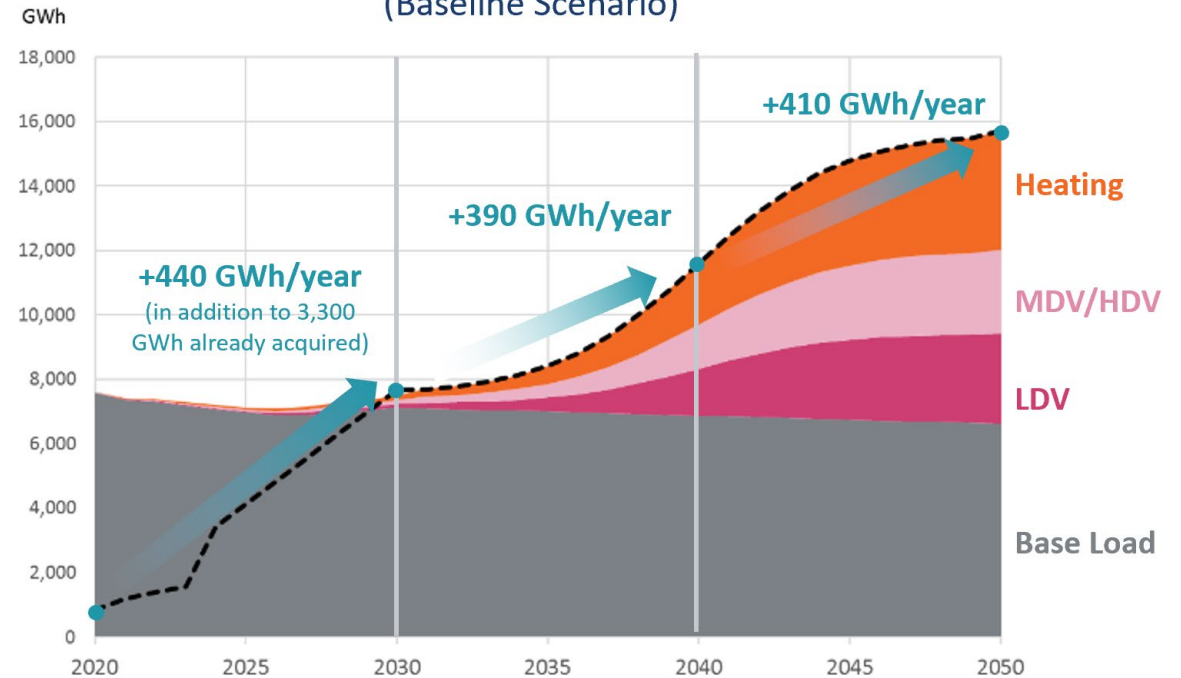
After 2030, electricity use is projected to rise as demand increases with the electrification and decarbonization of heating & transportation.



RI must therefore continue to add renewable energy to **stay at 100%** beyond 2030

- With other states also moving away from fossil fuels, the power system becomes less flexible, more intermittent.

2020-2050 RI Load Projection
(Baseline Scenario)



600 MW Offshore Wind RFP

600 MW of OSW could power **36%** of the state's annual electricity demand in **2030**, powering **407,000** homes each year – or nearly every household in Rhode Island.

If 600 MW of new OSW were added to existing clean energy commitments, RI would already meet **82%** of estimated **2030** electricity demand with renewables.

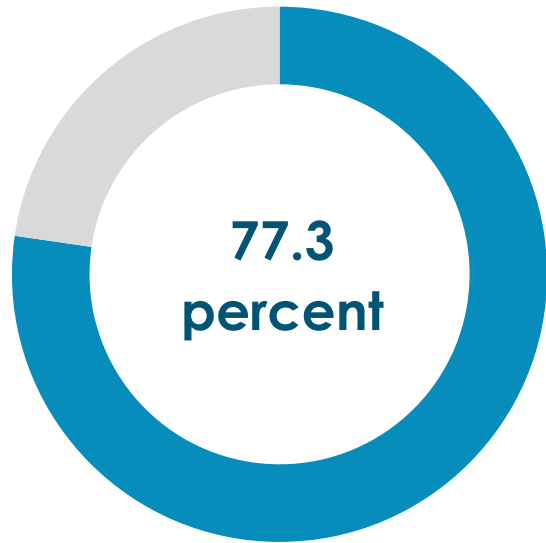
Tentative Timeline

- Late-November 2020 ● Draft RFP Filed with PUC
- 1Q 2021 ● PUC decision on RFP
- 2Q-3Q 2021 ● RFP issued; Bid development
- 3Q-4Q ● Bid evaluation
- 1Q 2022 ● Contract(s) filed with PUC
- 3Q 2022 ● PUC decision on contract(s)



Clean Energy Jobs

As of the end of **2019** the state's clean energy sector employed **16,348** workers.

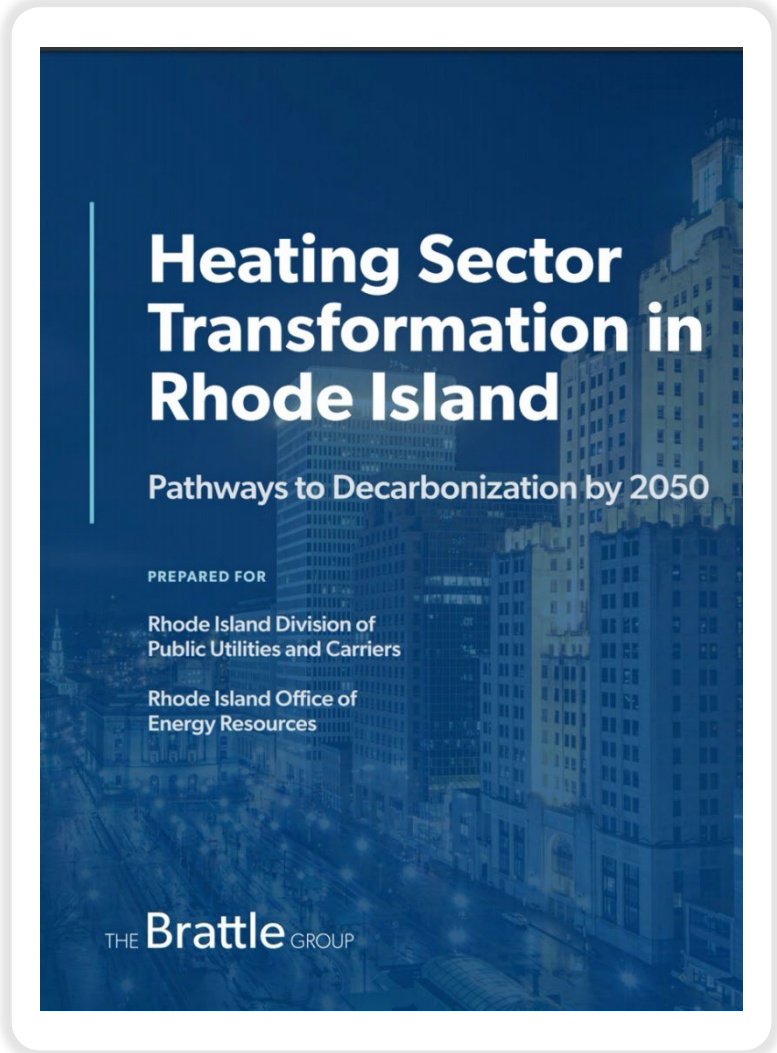


Increase in jobs since **2014**.

The energy efficiency sector accounted for **66 percent** of all new clean energy jobs created since **2014**.



Heating Sector Transformation



Governor Raimondo

signed Executive Order 19-06 in July 2019



Led by OER & DPUC

Retained The Brattle Group as consultant



Final Report Issued

April 22, 2020



3 Public Workshops

Attracted 60+ attendees each

Transportation

Electrify RI program is an electric vehicle charging station incentive program, administered by OER, that seeks to make more charging stations accessible to Rhode Island drivers.

- Funded with \$1.4M of the VW Settlement Funds. The program launched in **October 31, 2019**
- As of **October 31, 2020** we have installed:
 - 52 Level 2 charging stations
 - 7 DCFC (fast-charging) stations
- As of **June, 2020** there were 3078 Zero Emission Vehicles' registered in RI
- As of **November 2020** there are 132 Level II charging stations and 17 DCFC fast-charging stations in Rhode Island (includes known public and private installations).



#3

In the United States for
energy efficiency

*According to the American Council for an
Energy-Efficient Economy (ACEEE)*



Energy efficiency benefits

Energy efficiency is paying off for Rhode Islanders



877

Full-time equivalent jobs in 2019



1,151

Firms delivered energy efficiency services in 2019



1 million

Metric tons of greenhouse gas emissions prevented over the life of efficiency measures installed in 2019. Equivalent to taking

217,244 cars

Off the road for one year



\$605 million

Total benefits achieved by energy efficiency programs in 2019

GOVERNOR GINA M. RAIMONDO

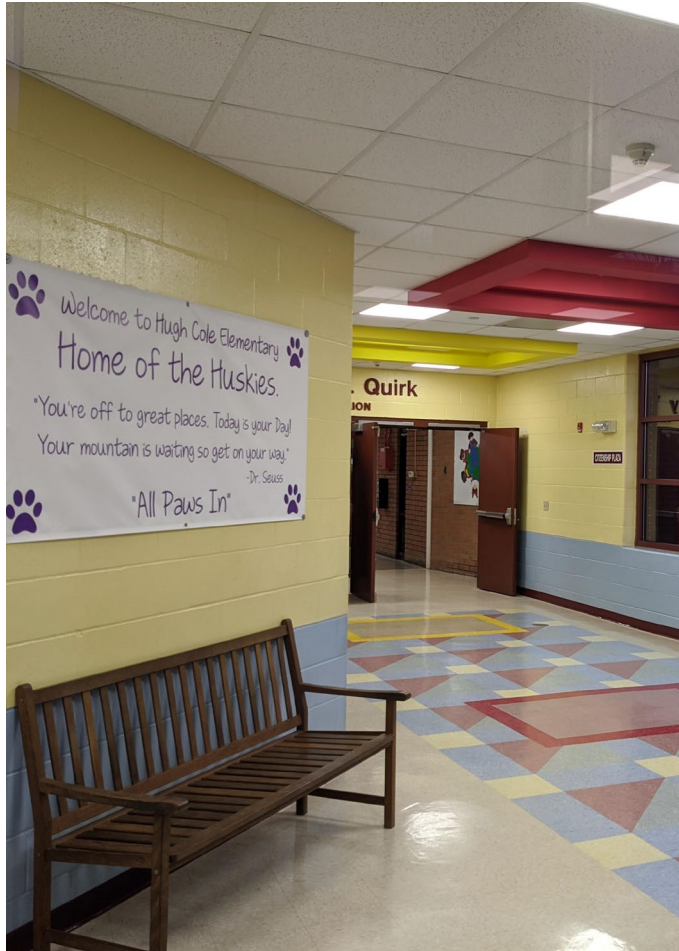
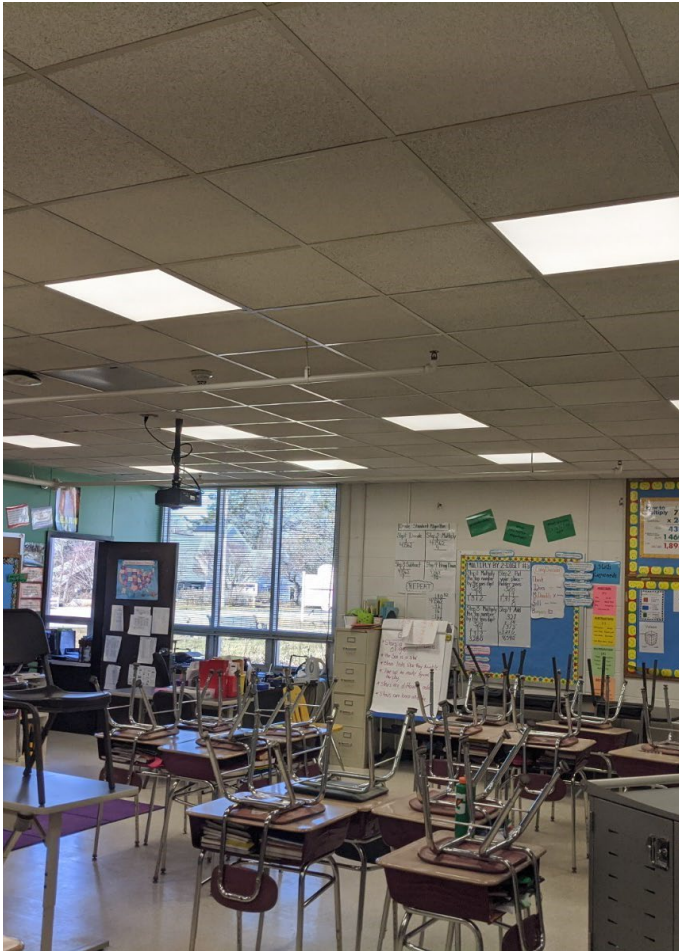
CHRIS PORTER

**National Grid
Rhode Island**

Presentation of accomplishments

PUBLIC SCHOOLS

Bristol Warren Regional School District



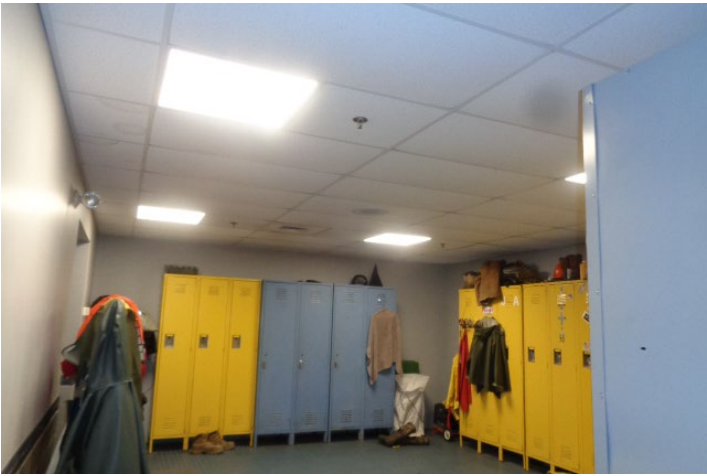
Installation of LED fixtures to save \$5,000 annually

Middletown Public Schools



Lighting upgrade with LED and advanced control

North Kingstown School Department



High school LED project to save approximately \$100,000 annually

Tiverton Schools



Lighting retrofit with advanced control for all three Tiverton elementary schools

Warwick Public Schools



District-wide LED project to save \$42,300 annually

PUBLIC SCHOOL
Lead by Example
Clean Energy Award

Scituate Public School



Multiple energy efficiency measures installed district wide

MUNICIPALITIES

Town of East Greenwich



New LED lighting fixtures at four municipal buildings and three electric vehicle charging stations

City of East Providence



Town wide high-performance LED lighting project to save \$25,000 annually

City of Providence



Installed the city's first three municipal-owned electric vehicle charging stations

West Warwick Regional Wastewater Treatment Plant



New LED lighting fixtures received \$39,000 in utility incentives

MUNICIPALITY
Lead by Example
Clean Energy Award

Town of South Kingstown



Comprehensive energy improvement projects throughout town buildings and ground-mounted solar arrays on capped landfills

STATE AGENCIES

DOA/DCAMM - Lighting – HVAC – Charging Stations



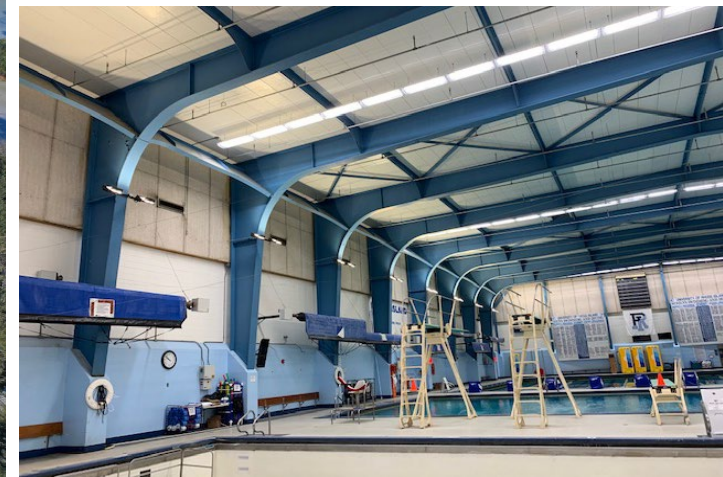
LED lighting project leads to annual energy savings of over 1M kWh and over \$170,000

RIDOT Midstate Highway and Bridge Maintenance Facility



Upgraded HVAC equipment leads to increased energy efficiency

University of Rhode Island



Comprehensive energy conservation measures across campus

Rhode Island College



Installed five, dual port, level II electric vehicle charging stations

William M. Davies, Jr. Career & Technical High School



Students gain hands-on experience and install ground mount PV array system

STATE AGENCY
Lead by Example
Clean Energy Award

Rhode Island Army National Guard



Rooftop solar installation at RI Army National Guard facility

QUASI-PUBLIC AGENCIES

Rhode Island Convention Center



High efficiency cooling system project to reduce the consumption of electricity by 25% and natural gas by 20%

Rhode Island Public Transit Authority



RIPTA installed auxiliary solar power system on diesel fleet

QUASI-PUBLIC
AGENCY

Lead by Example
Clean Energy Award

Narragansett Bay Commission



76% of electricity needs now come from renewable energy sources

**Congratulations to all
nominees and award winners.
See you next year!**