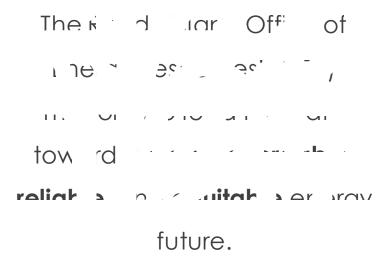
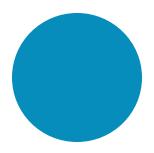


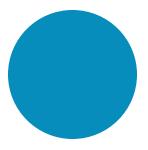
### Miss ) 1 signed hand







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



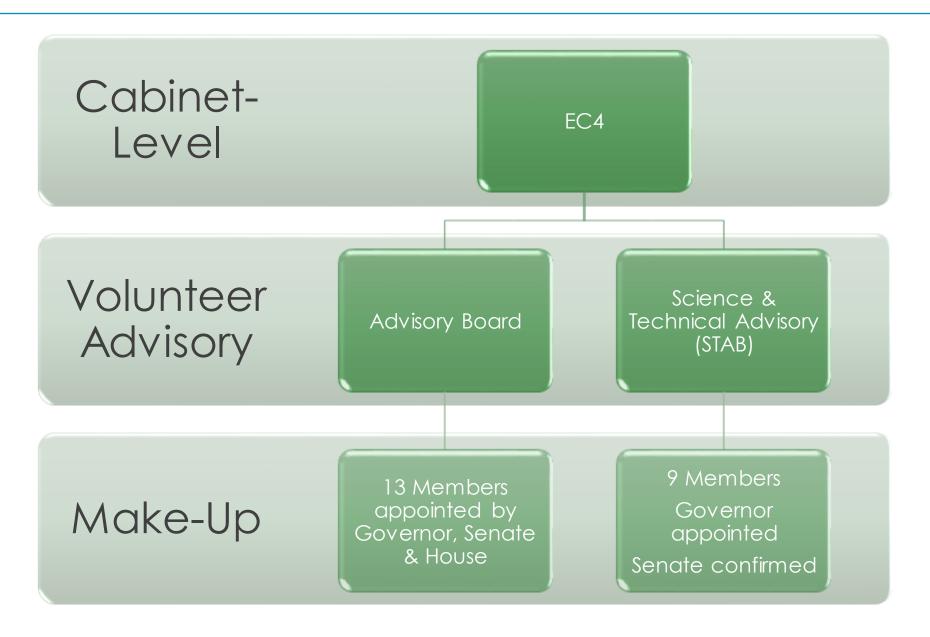
OER is committed to working with public- and private-sector stakeholders to ensure that all Rhode Islanders have access to cost-effective, resilient, and sustainable energy solutions.

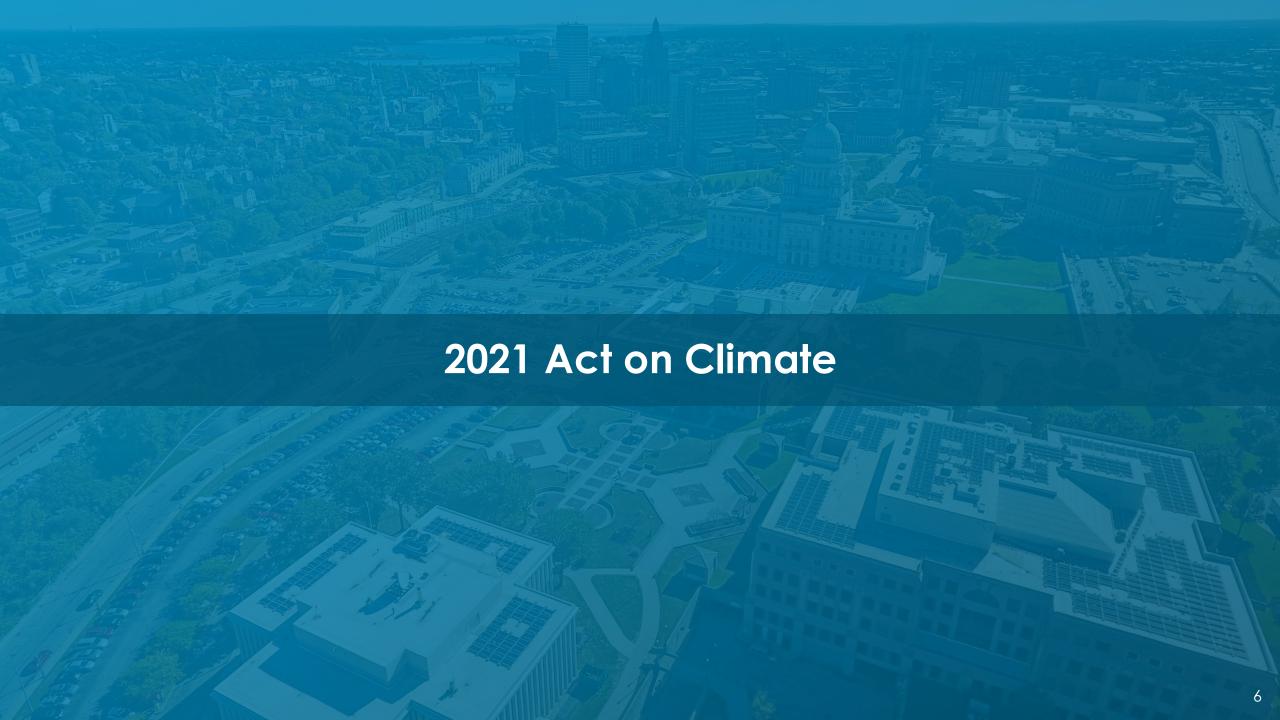


## **Leadership Team**

Executive Climate Change Coordinating Council (EC4)	
DEM (Chair)	Statewide Planning
OER (VC)	CRMC
DOA	Infrastructure Bank
DOT	RIPTA
DOH	DPUC
Commerce	HHS
EMA	

## Organizational Structure





## **Act on Climate Summary**

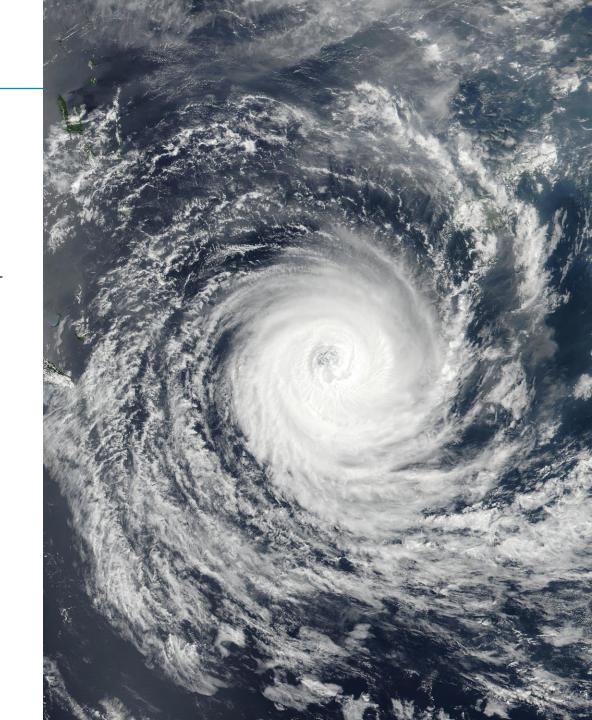
- The Act on Climate establishes economy-wide emissions reduction targets of:
  - > 10% below 1990 levels by 2020;
  - ➤ 45% below 1990 levels by 2030;
  - > 80% below 1990 levels by 2040; and
  - > Net-zero emissions by 2050
- Achievement will require, at minimum:
  - Strategies, programs, and actions to meet economy-wide enforceable targets;
  - > Metrics for measurement;
  - An equitable transition to redress past environmental and public health inequities; and
  - > Support for workers.



Mandates enforceable in RI Superior Court

#### **Act on Climate Mandates**

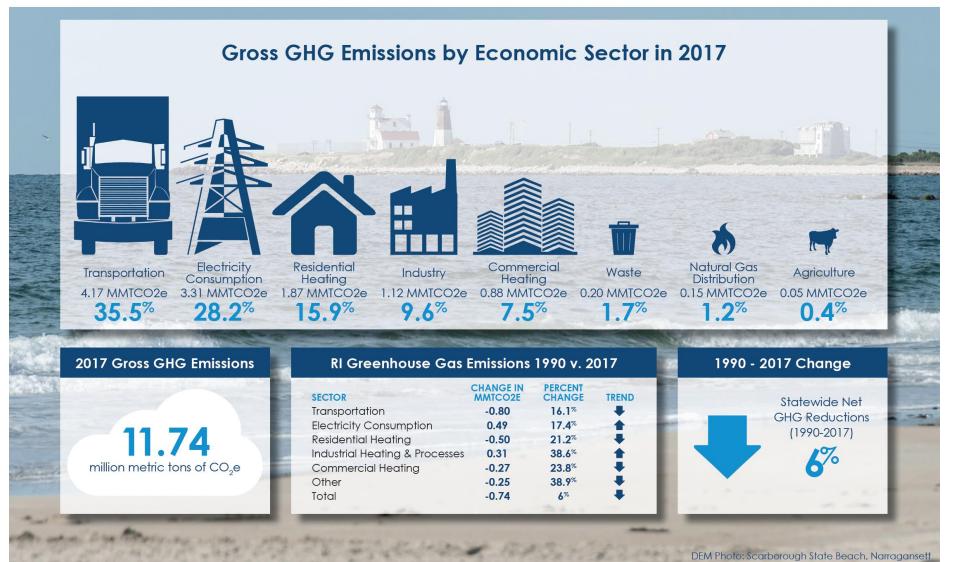
- By 12-31-2022, the EC4 shall submit an update to the GHG Reduction Plan to Governor & General Assembly (2016)
- By 12-31-2025 (and every 5 years), the EC4 must submit a <u>Climate Change Strategic Plan</u>, following public comment, that includes strategies/programs/actions to meet economy-wide targets for GHG reductions.
- Develop <u>public metrics and an online public</u>
   <u>dashboard</u> tracking both emissions reductions and
   sources of energy consumed by the state, updated at
   least annually
- Each agency has authority to <u>promulgate rules and</u> <u>regulations</u> necessary to meet the GHG mandate reduction mandate



## **Quick Facts**

1990-2017

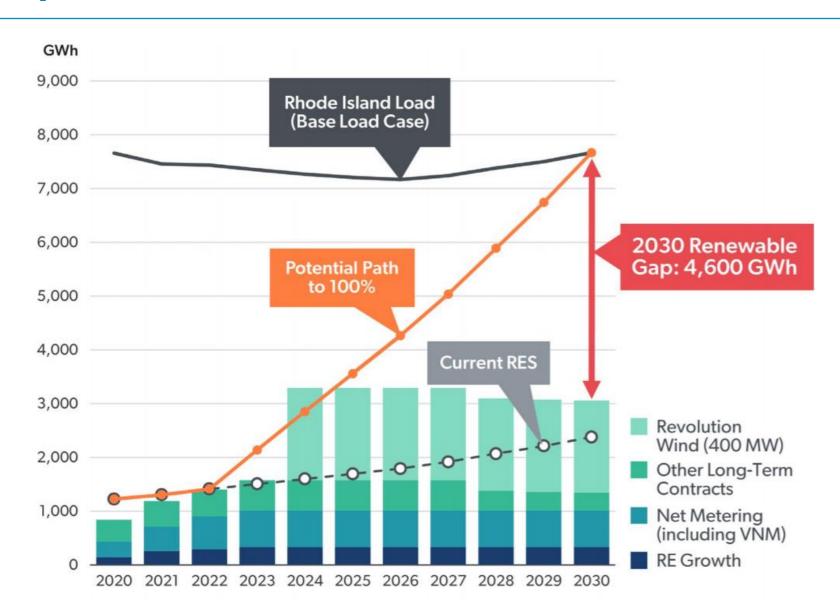
#### Rhode Island Greenhouse Gas (GHG) Emissions Inventory





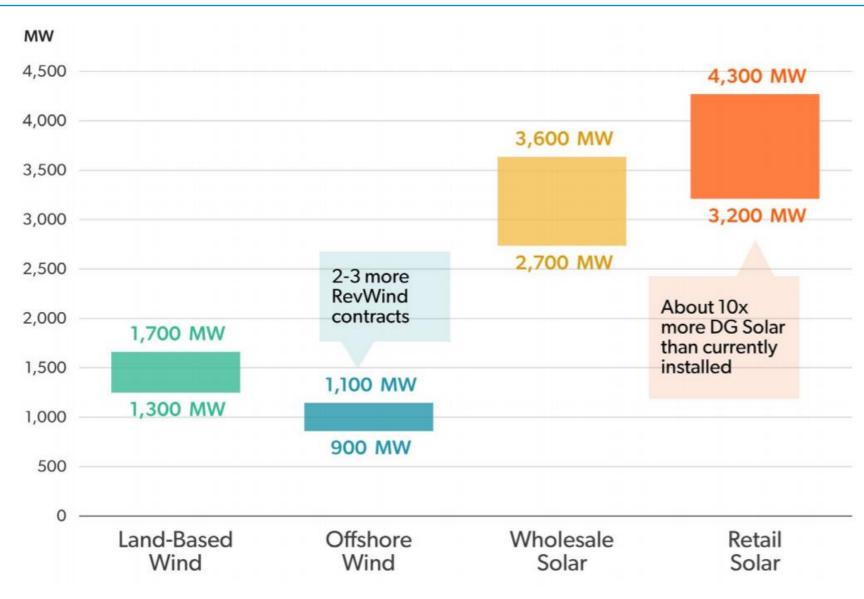
## **Estimating the Gap**

We forecasting renewable energy growth from existing programs and contracts. The difference between demand and renewables is the gap: we will need to build or procure ~4,600 GWh of renewable energy by 2030

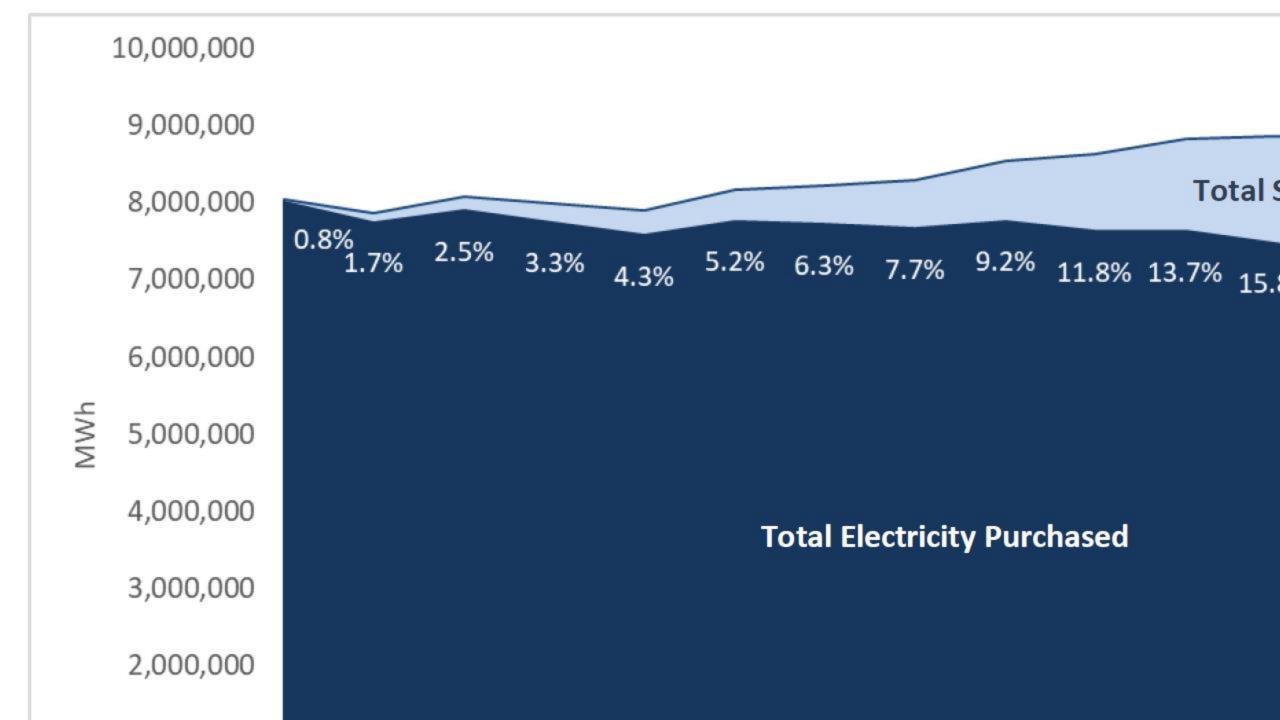


## Filling the Gap in 2030

We considered four renewable energy resource types, first as "technology bookends" and then as pieces of mixed resource portfolios.



## Foundations for Decarbonization



#### **Electric Sector Decarbonization**

- 100% Renewables by 2030 Analysis
  - www.energy.ri.gov/100percent/
- Regional Greenhouse Gas Initiative (RGGI)
- Nation-leading Energy Efficiency Programs
- Suite of renewable energy programs, including Renewable Energy Growth and Net Metering
- Solar Opportunities Study





#### **Offshore Wind**

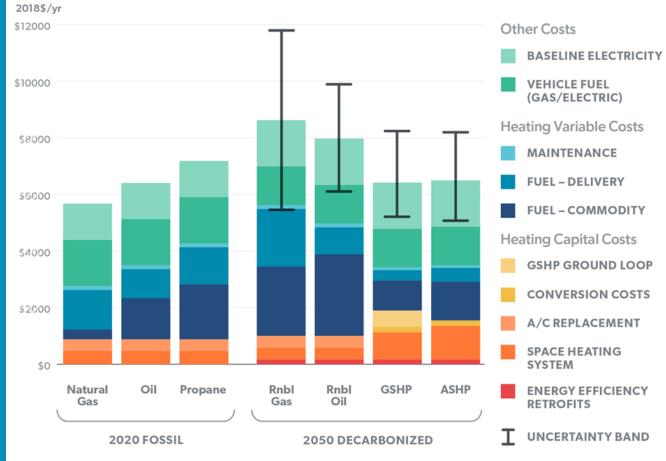
- Block Island Wind Farm
  - First in North America
  - Operational in December 2016

- Selection of 400 MW Revolution Wind offshore project
  - 800+ construction jobs
  - \$40 million port investment
  - Represents ≈ 24% of est. 2030 demand



#### **Heating Sector Transformation**

HST Report (May 2020) identifies economic, energy, and environmental opportunities and challenges posed by our state's heating sector, and establishes policy and programmatic pathways for sector transformation. www.energy.ri.gov/HST/



#### **Clean Energy Jobs**

Clean energy occupations are a source of sustainable-wage employment for Rhode Island residents and high unemployment communities.

- Entry-level clean energy jobs can provide a premium compared to corresponding statewide medians.
- For entry-level workers young adults and those with lower educational attainment – clean energy vocational trades present job opportunities.
- Clean Energy Internship Program
  - Joint initiative by OER and CommerceRI
  - Year-round during Spring, Summer & Fall semesters
  - Supported by local renewable & ee companies

# 2019 Rhode Island Clean Energy Jobs At-A-Glance

Pre-COVID

16,021

**Clean Energy Jobs** 

**74%** 

Growth in clean energy workforce since 2014

Largest Growth Sector:

Renewable & efficient heating and cooling added 134 jobs









Workers are becoming specialized, spending more time on clean energy tasks

Public-private partnerships are increasing clean energy jobs training opportunities





## **EC4** Priority Themes











Community Resiliency

Clean Transportation

Clean Energy
Policies & Programs

Equity and Environmental Justice

**Public Health** 







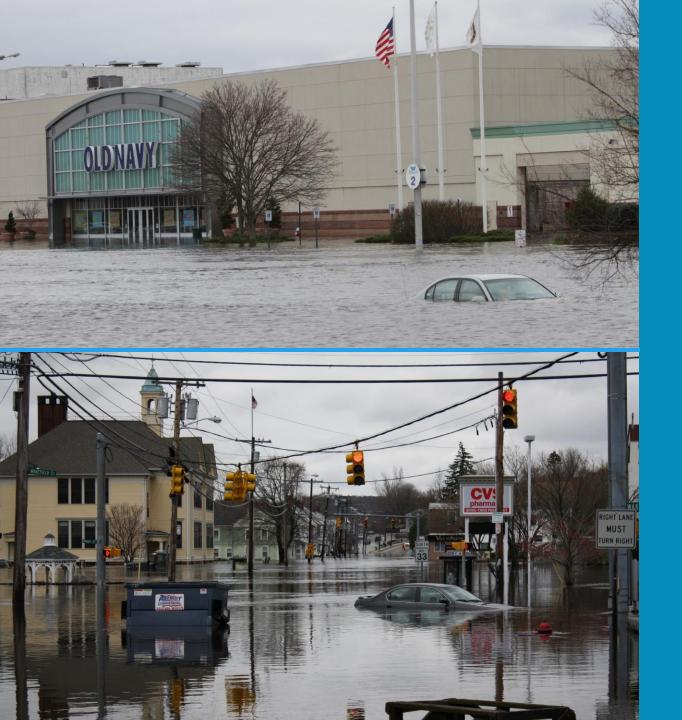
GHG Emissions Inventory



Climate Dashboard and Metrics



Act on Climate
Reporting Mandates



### **Initial Key AoC Workstreams**

Workstream A: Enhance EC4

Workstream B:

Update to 2016 GHG Reduction Plan (12/31/22)

Workstream C:

Climate Change Strategic Plan (12/31/25)

Workstream D:

**Public Dashboard & Metrics** 

Workstream E:

Equity & Environmental Justice Engagement Strategy

