

### 2021 Act on Climate

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
- Net-zero emissions by 2050

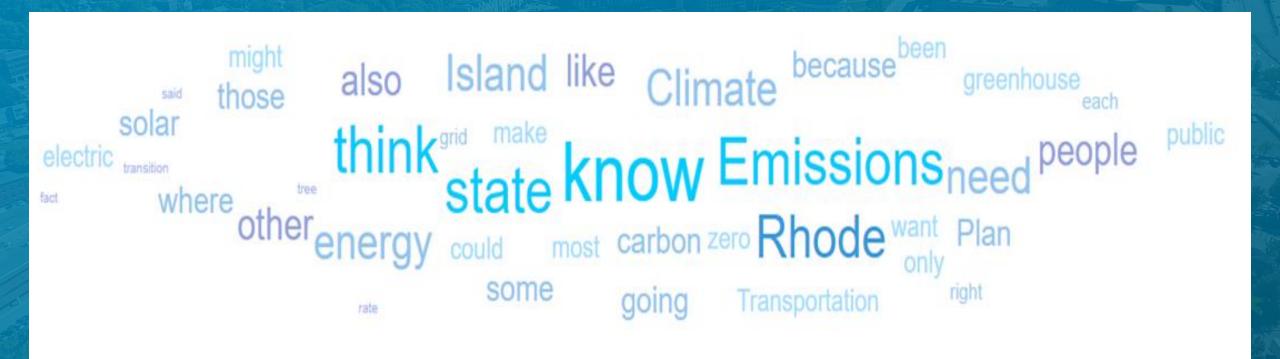
- By 12-31-2022, the EC4 shall submit an update to the **2016 GHG Reduction Plan** to Governor & General Assembly
- By 12-31-2025 (and every 5 years), the EC4 must submit an updated <u>Climate Change</u>
   <u>Strategic Plan</u>, following public comment, that includes strategies/programs/actions to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



### Update – 2016 GHG Reduction Plan

- 6 years since our last significant comprehensive climate report
- Additional research/analysis since 2016 has altered our focus and direction
- RI needs to leverage lessons learned and chart an updated course of action
- Federal disengagement between 2016-2020; drove the need for state leadership

# Engagement Key to Success



20+ listening sessions & workshops



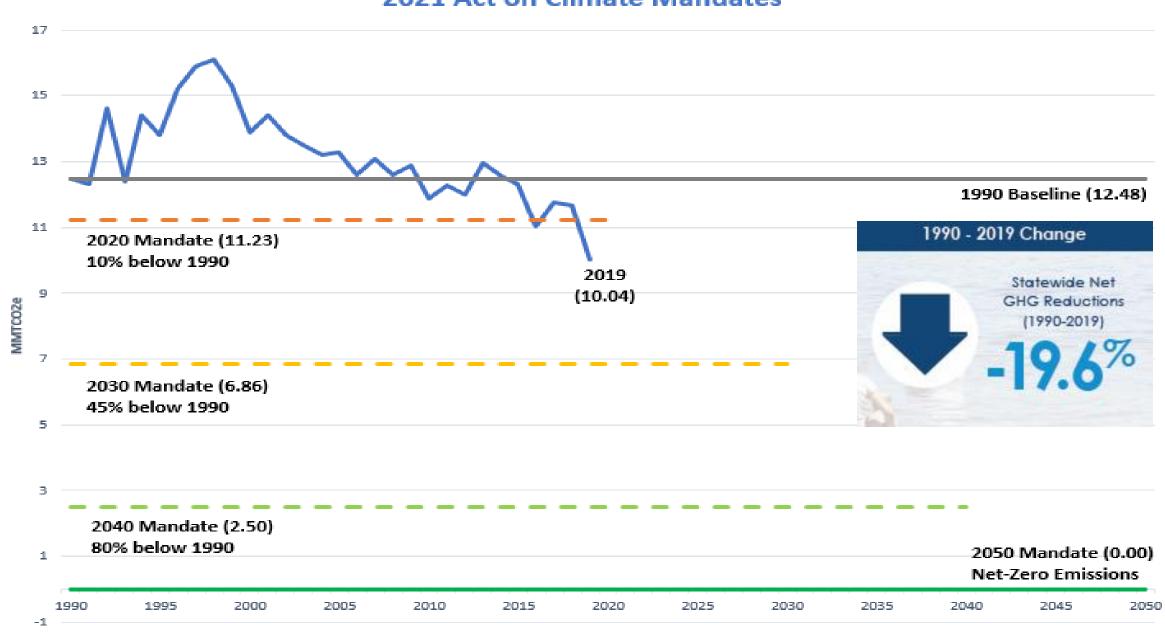
Nearly 400 written sets of comments



### Consensus on Scope

- Be responsive to the 2021 Act on Climate
- Center equity and public participation
- Leverage lessons learned since 2016
- Share high-level modeling results which shows policy impacts
- Focus on near-term actions
- Build a strong foundation for the larger 2025 Climate Strategy

#### Rhode Island Greenhouse Gas Emissions Inventory 2021 Act on Climate Mandates



### Profile of RI's GHG Sources

## **Quick Facts**



Rhode Island Greenhouse Gas (GHG) Emissions Inventory

**Gross GHG Emissions by Economic Sector in 2019** 



1990-2019

Transportation
4.29 MMTCO<sub>2</sub>e
39.7%



Residential Heating 2.09 MMTCO<sub>2</sub>e 19.3%



Electricity Consumption 2.05 MMTCO<sub>2</sub>e

18.9%



Industry 1.03 MMTCO<sub>2</sub>e

9.5%



Commercial Heating 0.94 MMTCO<sub>2</sub>e

87%



Waste

0.23 MMTCO<sub>2</sub>e

2.1%



Natural Gas Distribution

0.14 MMTCO<sub>2</sub>e

1.3%



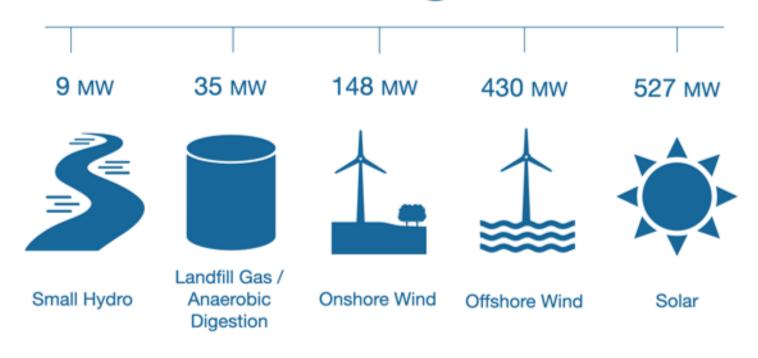
Agriculture 0.05 MMTCO<sub>2</sub>e

0.5%

2022 Jun 30

## Rhode Island Clean Energy Portfolio

# 1,149 Megawatts





### **Key Legislation & Studies**

#### 2021-2022 Enacted Legislation:

- 2021 Act on Climate
- Extension of Least Cost Procurement and State Energy
- Efficiency Programs through 2028
- Extension of the Renewable Energy Fund through 2028
- Updates to Energy Efficiency Appliance Standards
- 100% Renewable Energy Standard by 2033
- 600 to 1,000 MW Offshore Wind Procurement RFP
- \$25M High-Efficient Heat Pump Program (Budget)
- \$23 million EV Charging Station Infrastructure Program Implementation Process (Budget)
- EJ representative on EC4 Advisory Board

#### **Studies:**

- 100% Renewable Energy
- Heating Sector Transformation
- Solar Siting Opportunities



### **Electric Sector Priorities**

- Implement the 100% RES
- Modernize the electric grid
- Deploy advanced meters
- Procure offshore wind
- Continue deep investments in energy efficiency
- Complete RGGI program review



# Transportation Sector Priorities

- Target 10% EV registrations by 2030
- Align future transportation funding with Transit Master Plan & Bicycle Mobility Plan
- Continue RIPTA electrification
- Adopt Advanced Clean Trucks (ACT) rule
- Continue EV/E-Bike incentives
- Model climate impacts of transportation projects
- Develop 'Complete Streets' plan



### **Thermal Sector Priorities**

- Target 15% penetration of electric heat pumps by 2030
- Scale up heat pump incentives
- Adhere to biodiesel blending
- Explore gas system transformation (Future of Gas Docket)
- Continue energy efficiency
   & weatherization
- Begin developing 100%
   Renewable Thermal Standard



### Climate Justice Priorities

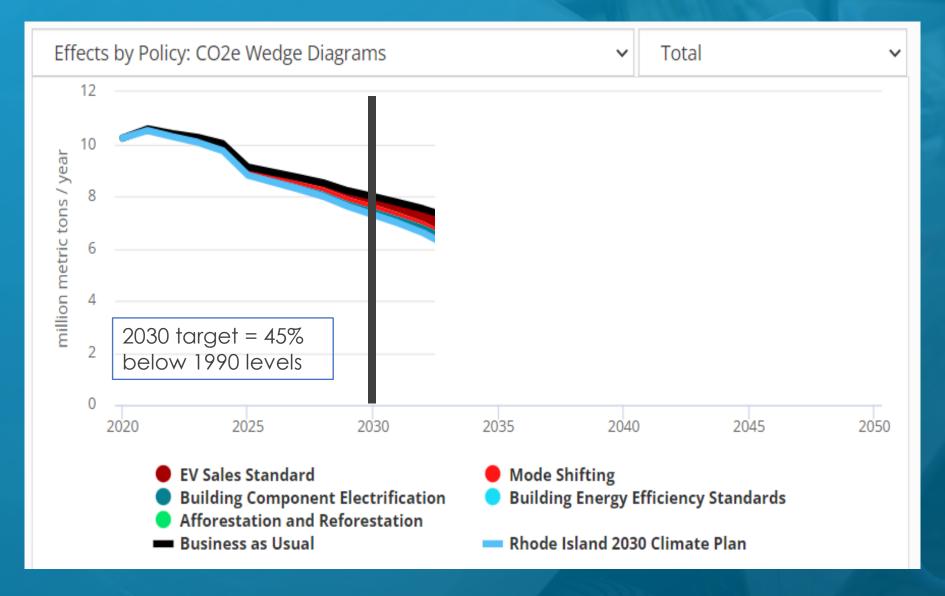
- Better align work of the EC4 with Health Equity Zones (HEZ) priorities/communities
- Create space for meaningful conversation (e.g. climate justice advisory group)
- Better coordinate state & local investments for urban trees
- Provide technical assistance to communities
- Promote research into the impacts of climate change in overburdened and underserved communities



### **Land Use Priorities**

- Explore improvements to siting guidance and incentives that push solar development away from forests and agricultural lands towards previously disturbed sites
- Identify a more stable and predictable funding stream for land conservation
- Coordinate state and local investments in urban tree programs
- Expand existing programs that promote local agriculture
- Promote research and policies that invest in regenerative agriculture practices

## A Peek at the Future – Acadia Center Modeling



- Electrifying the transportation sector & installing efficient electric appliances for space and water heating (e.g. heat pumps) combined have the most significant impact on GHG reductions in RI between 2020 and 2030
- Adoption of all the scenarios modeled results in a 40.8% reduction in GHG emissions by 2030



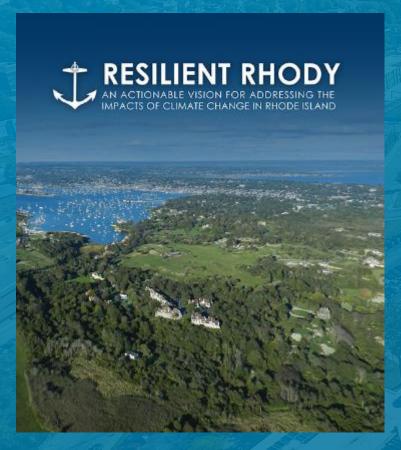
### Highlights for 2023

- Funding to support the EC4
- Implementation & deployment of federal energy funds (infrastructure and inflation laws) for EV charging infrastructure and electrification of households
- Rolling out RI's \$25 Million (Federal Stimulus Funds) High-Efficiency Heat Pump Program
- 600 to 1,000 MW Offshore Wind RFP Procurement Results
- Significant PUC dockets (Future of Gas, Grid Modernization and Smart Meters)
- Center climate and energy justice
- Regulatory actions on clean cars
- Further electrification of transit & school buses
- New climate dashboard
- Investments in urban trees

# Looking Ahead to 2025

- Build off public involvement success to date
- Engagement of disadvantaged/underserved communities
- Engagement of municipalities & businesses
- Harness the expertise of EC4 STAB & Advisory Board
- More refined modeling/more scenarios
- Invest in ports/workforce/just transition
- Resources & budget
- Metrics & dashboard

### Resilience Remains Critical



- Continued implementation of Municipal Resilience Program (MRP)
- Implementation of Ocean State
   Climate Adaptation and Resilience
   (OSCAR) Fund

(2018)