2019 Rhode Island Greenhouse Gas Emissions Inventory

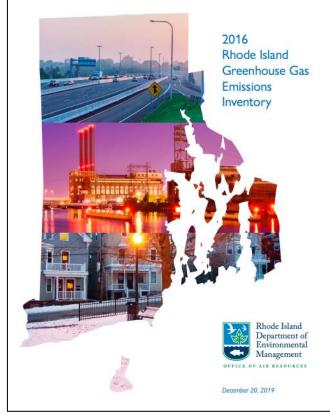
EC⁴ Council Meeting December 15, 2022



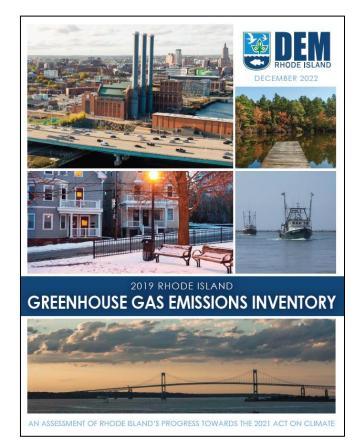
Background



- The 2019 Rhode Island
 Greenhouse Gas Emissions
 Inventory is a "triennial
 summary" report
- Features:
 - 1. Emission Trends
 - 2. Estimation Methodologies
 - 3. Improvement Efforts



1st Triennial Summary Published December 2019



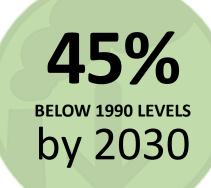
2nd Triennial Summary Published December 2022

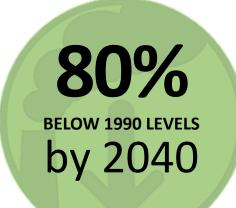
2021 Act on Climate



The Act on Climate's greenhouse gas emission reduction mandates:









DEM's annual GHG emissions inventory serves as the **primary scientific tool** for evaluating progress with the Act on Climate

Quick Facts

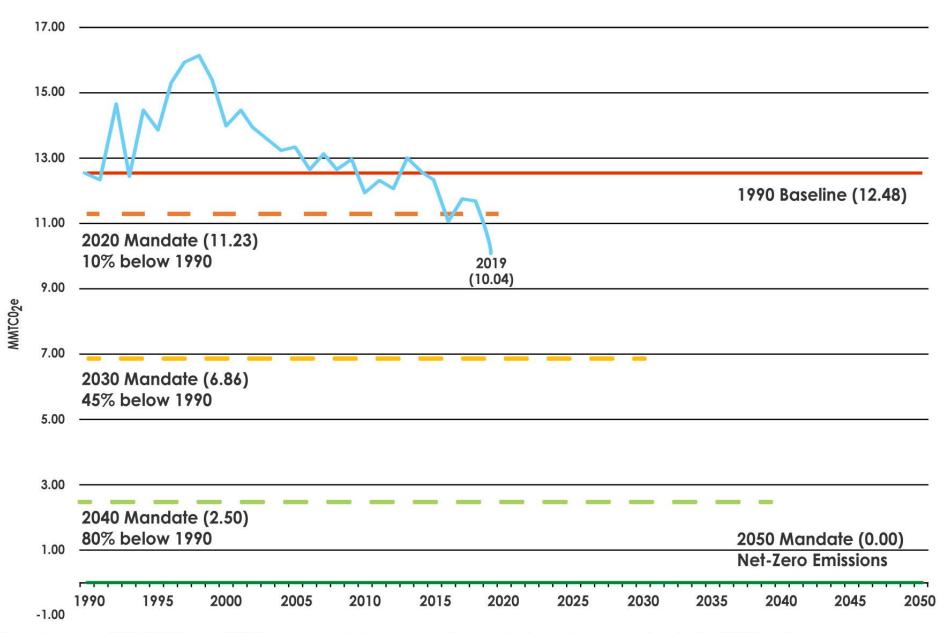
1990-2019



Rhode Island Greenhouse Gas (GHG) Emissions Inventory



RI GHG 2021 Act on Climate Mandates



Major Economic Sector Trends



Since 1990

- Transportation decreased 13.7%
- Residential Heating decreased 12.0%
- Electricity Consumption decreased 27.4%

Since 2016

- Transportation increased 8.8%
- Residential Heating increased 8.8%
- Electricity Consumption decreased 28.0%



Manchester Street Power Station, Providence



Washington Bridge (I-195), East Providence

Spotlighted Inventory Improvements



- 1. Revised methodology for accounting the emissions reductions associated with Renewable Energy Certificates (RECs).
- 2. The addition of a Land Use, Land Use, Land Use, and Use Change, and Forestry (LULUCF) sector to the annual inventory.



Wickaboxet Management Area, West Greenwich



Block Island Wind Farm, New Shoreham

Going Forward



- 1. 2019 was the last "prepandemic" GHG emissions inventory.
- 2. Inventory years 2020 and 2021 are likely "uncharted" territory for GHG accounting because of major economic changes in those years. Analysis may be challenging.
- 3. Further improvements are warranted to ensure accurate net-zero accounting practices.



Providence Skyline

Questions? Thank you!

Joseph Poccia | Air Quality Specialist

Rhode Island Department of Environmental Management

Office of Air Resources

401-222-2808 x 2774106

joseph.a.poccia@dem.ri.gov

Rhode Island Greenhouse Gas Emissions Inventory:

https://dem.ri.gov/ghg-inventory



Rhode Island
Department of
Environmental
Management

OFFICE OF AIR RESOURCES