Act on Climate Mandates

• By 12-31-2025 (and every 5 years), the EC4 must submit an updated Climate Change Strategic Plan, following public comment, that includes strategies/programs/actions to meet economy-wide targets for GHG reductions as follows:
  ➢ 10% below 1990 levels by 2020;
  ➢ 45% below 1990 levels by 2030;
  ➢ 80% below 1990 levels by 2040; and
  ➢ Net-zero emissions by 2050.

• By 12-31-2022, the EC4 shall submit an updated GHG Reduction Plan to Governor & General Assembly (2016)

• Develop public metrics and an online public dashboard tracking both emissions reductions and sources of energy consumed by the state, updated at least annually

• Each agency has authority to promulgate rules and regulations necessary to meet the GHG mandate reduction mandate
Context: Transportation Sector
### 2021 Act on Climate Reduction Requirements

<table>
<thead>
<tr>
<th>Year</th>
<th>GHG Reduction Target</th>
<th>GHG Emissions Target (MM Tons CO2/year)</th>
<th>Emission Reductions Needed from 1990 baseline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990 (Baseline) * includes LULUCF Sequestration (-0.29)</td>
<td>N/A</td>
<td>12.48 (baseline)</td>
<td></td>
</tr>
<tr>
<td>2016 INVENTORY *doesn't include LULUCF Sequestration</td>
<td>N/A</td>
<td>11.02 (modeled emissions)</td>
<td></td>
</tr>
<tr>
<td>2017 INVENTORY *doesn't include LULUCF Sequestration</td>
<td>N/A</td>
<td>11.74 (modeled emissions)</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>10% below 1990</td>
<td>11.23 (1.25 reduction from 2017 inventory)</td>
<td>1.25 reduction</td>
</tr>
<tr>
<td>2030</td>
<td>45% below 1990</td>
<td>6.86 (4.37 reduction from 2020 target)</td>
<td>5.62 reduction</td>
</tr>
<tr>
<td>2040</td>
<td>80% below 1990</td>
<td>2.50 (4.36 reduction from 2030 target)</td>
<td>9.98 reduction</td>
</tr>
<tr>
<td>2050</td>
<td>NET-ZERO EMISSIONS</td>
<td>up to 2.50 reduction from 2040 target</td>
<td>up to 12.48 reduction</td>
</tr>
</tbody>
</table>

Getting to Net-Zero means we can still produce some emissions, as long as they are offset by processes that reduce human-caused GHG emissions. For example, planting trees, or drawdown technologies like direct air capture.

TCI Reduction is 30% between 2023 and 2032 based roughly off 2016 baseline—assume reduction of about 1.18 tons/year—that comprises 27% of the required reduction between 2020 & 2030.
<table>
<thead>
<tr>
<th>GHG emissions from:</th>
<th>CO2 emissions from:</th>
<th>Carbon sequestered from:</th>
<th>GHG emissions avoided by:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MMT CO2e is equivalent to:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>217,480 (Passenger vehicles driven for one year)</td>
<td>120,423 (homes' energy use for one year)</td>
<td>1,225,178 (acres of U.S. forests in one year)</td>
<td>208 (Wind turbines running for a year)</td>
</tr>
</tbody>
</table>

| 4 MMT CO2e (Approx. the entire 2017 transportation sector emissions) is equivalent to: |
| 869,920 (Passenger vehicles driven for one year) | 481,693 (homes' energy use for one year) | 4,900,710 (acres of U.S. forests in one year) | 832 (Wind turbines running for a year) |

- There are ~800,000 passenger cars registered in RI. Source: RIDMV
- There are ~410,885 households in RI. Source: Housing Works RI
- There are ~40,000 acres of state-owned land in RI. Source: RIDEM

Estimates provided by US EPA GHG Equivalencies Calculator: [https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator](https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator)
EC4 Priority Themes

- Community Resiliency
- Clean Transportation
- Clean Energy Policies & Programs
- Equity and Environmental Justice
- Public Health
- Heating Sector Transformation
- Clean Energy Sector Workforce Development
- GHG Emissions Inventory
- Climate Dashboard and Metrics
- Act on Climate Reporting Mandates
Organizational Structure

Cabinet-Level

EC4

Volunteer Advisory

Advisory Board

Science & Technical Advisory (STAB)

Make-Up

13 Members appointed by Governor, Senate & House

9 Members Governor appointed Senate confirmed
Initial Key AoC Workstreams

Workstream A: 
Enhance EC4

Workstream B: 
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
Discussion