### **Act on Climate Mandates**

- By 12-31-2025 (and every 5 years), the EC4 must submit an updated <u>Climate Change Strategic Plan</u>, 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 <u>GHG</u>
  <u>Reduction Plan</u> to Governor & General Assembly (2016)
- Develop <u>public metrics and an online public 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



## Context: Transportation Sector

#### **2021 Act on Climate Reduction Requirements**

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

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 baselineassume reduction of about 1.18 tons/yearthat comprises 27% of the required reduction between 2020 & 2030





turbine would replace marginal sources of grid electricity.

Estimates provided by US EPA GHG Equivalencies Calculator: <u>https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator</u>

#### **EC4 Priority Themes**



#### **Organizational Structure**

![](_page_5_Figure_1.jpeg)

![](_page_6_Picture_0.jpeg)

#### 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