MARYLAND COMMISSION ON CLIMATE CHANGE

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Maryland Commission on Climate Change 2025 Working Group Priorities: Science and Technical Working Group

Working Draft
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2025 Priorities: Science and Technical Working Group

- Look more closely at N_2O for the greenhouse gas inventory.
- Update the comprehensive assessment of climate change impacts in Maryland, the "Global Warming and the Free State", published in 2008.
- Create a scenario analysis for carbon net zero in Maryland for inspiration purposes.

Science and Technical Working Group Priority 1: Possible N_2O addition to greenhouse gas inventory

- Identify current sources of N_2O such as agriculture, waste, and energy.
- Quantify the global warming potential of N_2O over 100 years.
- Assess how N_2O reduction measures could impact Maryland residents, agriculture, and industry.
- Note: the Maryland Greenhouse Gas Inventory currently tracks N_2O emissions in the State.

Estimated time: 6-8 months

Science and Technical Working Group Priority 2: Comprehensive Assessment

- Using "Global Warming and the Free State" (2008) assessment as a reference, update the impact of climate change to Maryland.
- Include findings from a recent study by the Maryland Department of Health and University of Maryland College Park School of Public Health.
- Utilize experts from within and outside of STWG for completion

Estimated time: 12-18 months

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Science and Technical Working Group Priority 3: Carbon Net Zero Scenario Analysis

Building of off past reports including, "Maryland's Climate Pollution Reduction Plan (2023)":

- While considering prior analyses of Maryland's greenhouse gas emissions across the major sectors: transportation, energy, residential, agricultural, etc.
  - Explore carbon offsets.
  - Identify timelines and milestones.
  - Identify metrics to monitor and track progress.

Estimated time: 15-24 months