NC Clean Transportation Plan

Energy Policy Council
February 16, 2022
Gross GHG Emissions by Economic Sector in 2018

- Transportation: 35.9%
- Electricity: 32.8%
- Industry*: 12.2%
- Agriculture: 6.6%
- Waste: 5.6%
- Home: 3.5%
- Commercial: 3.3%

2018 Gross GHG Emissions

159.5 million metric tons of CO₂e

CO₂ emissions from fossil fuel combustion: 81.3% of total gross emissions
CO₂ emissions removed by forests & other lands: 26.4% of total gross emissions

2005 - 2018 Change in Gross GHG Emissions

- ▼ 34.7% — Electric Generation
- ▼ 16.5% — Residential
- ▼ 3.5% — Transportation
- ▲ 1.7% — Industry*
- ▲ 3.3% — Commercial

Statewide Net GHG Reductions (2005-2018)

23.0%

https://deq.nc.gov/energy-climate/climate-change/greenhouse-gas-inventory
Executive Orders 80 and 246

**EO 80 (2018)**
- Reduce economy wide emissions by 40% below 2005 levels by 2025
- Increase total number of registered ZEVs to at least 80,000 by 2025
- Reduce energy consumption in state-owned buildings by 40% below 2002-2003 levels

**EO 246 (2022)**
- Reduce economy wide emissions by 50% below 2005 levels by 2030
- Increase total number of registered ZEVs to at least 1.25 million by 2030
- Increase the sale of ZEV so that 50% of in-state sales are zero emission by 2030
NC ZEV Registrations

Active Vehicle Registrations of ZEVs

Electric | Plug-in Hybrid | Total ZEV

- July 2018
- Nov 2018
- Dec 2018
- Jan 2019
- Mar 2019
- Apr 2019
- May 2019
- Jun 2019
- Jul 2019
- Aug 2019
- Sept 2019
- Oct 2019
- Nov 2019
- Dec 2019
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- Apr 2020
- May 2020
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- Jan 2021
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- Mar 2021
- Apr 2021
- May 2021
- Jun 2021
- Jul 2021
- Aug 2021
- Sept 2021
- Oct 2021
- Nov 2021
- Dec 2021
NC Clean Transportation Plan

1. Availability, sales, and usage of zero-emission vehicles to levels beyond current market projections, including a focus on Medium- and Heavy-Duty ZEVs;
2. Reductions in vehicle miles traveled;
3. Investment in clean transportation infrastructure;
4. Equitable access to clean mobility options;
5. Increased availability of non-vehicle transportation modes;
6. A transition to zero- and low-emission fuels; and
7. Other relevant topics.
NCCTP Objectives

➢ Share **best-practices** and **increase awareness** of the current landscape of clean transportation initiatives in North Carolina;

➢ Assess the **opportunities, challenges, and considerations** with creating a more equitable clean transportation system in the state, with a specific focus on the potential impacts on **underserved populations** and communities;

➢ Develop **actionable strategies**, with an emphasis on near-term action, that will support achievement of the goals in E.O. 246 and any other goals developed as part of NCCTP process.

➢ Develop **accountability metrics** to track progress for priorities such as ZEV registrations, ZEV sales, environmental justice, and workforce development.
NCCTP Stakeholder Groups

- 18 individuals
- Provide strategic direction for NCCTP process

Advisory Group

- At least 10-12 “experts” in the workgroup topic
- Recommend actionable strategies

Stakeholder Group

- Broad and diverse group of stakeholders
- Input on challenges and opportunities

Targeted Outreach

- EJ Advisory Board
- Cities Initiative
- Councils of Gov’t

Workgroups
## NCCTP Workgroups

<table>
<thead>
<tr>
<th>Workgroup</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>ZEV Plan 2.0</strong></td>
<td>• Focus on light duty vehicle transition</td>
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<td>• Vehicle availability and consumer education</td>
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<td>• Incentives and affordable financing options</td>
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<td><strong>M/HD ZEV Action Plan</strong></td>
<td>• Builds off the multistate M/HD MOU</td>
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<td>• Environmental Justice outreach to impacted communities</td>
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<td>• Includes low-carbon fuels</td>
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<td><strong>Fleet Transition Plan</strong></td>
<td>• Public entities (state and local fleets)</td>
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<td>• Private entities</td>
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<td>• School buses</td>
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<td><strong>VMT Task Force</strong></td>
<td>• Builds off existing VMT Task Force</td>
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<td>• Includes transit, bike-ped, passenger rail and other non-vehicle</td>
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<td>transportation modes</td>
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<td><strong>Clean Transportation Infrastructure</strong></td>
<td>• EV Charging Infrastructure</td>
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<td>• Alternative fuels infrastructure</td>
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<td>• Includes mapping, siting and identification of gaps</td>
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Cross-cutting Themes

NCCTP

- Equitable Access
- Education and Outreach
- Incentives and Financing
- Economic and Workforce
- Health Impacts
- Policies and Programs
NCCTP Timeline

January 7, 2022
EO 246 Signed

February 2022
Kick-off with Advisory Committee

March 2022
Stakeholder Workshop #1

April - Sept 2022
Workgroups meet to develop Action Plans

June 2022
Stakeholder Workshop #2

October 2022
Stakeholder Workshop #3

March 2023
Stakeholder Workshop #4

September 30, 2022
Action Plans Due

November - December 2022
NCDOT drafts report

January 2023
Public Comment Period

April 7, 2023
Final Report
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