



NARUC Electric Vehicles State Working Group

SEPTEMBER MEETING

SEPTEMBER 22, 2020

AGENDA (Eastern Time)

| | |
|---------|--|
| 3:00 PM | Welcome and Introductions (5 minutes) <ul style="list-style-type: none">• Agenda review• Roll call, by state |
| 3:05 PM | Presentation and Q&A: NASEO (10 minutes) <ul style="list-style-type: none">• Cassie Powers, Managing Director at NASEO, will talk about regional efforts through REV West |
| 3:15 PM | Presentation and Q&A: NESCAUM (10 minutes) <ul style="list-style-type: none">• Kathy Kinsey, Senior Policy Advisor at NESCAUM, will discuss regional coordination in the Northeast as well as the multi-state medium- and heavy-duty ZEV initiative |
| 3:25 PM | Presentation and Q&A: Great Plains Institute (10 minutes) <ul style="list-style-type: none">• Brendan Jordan, Vice President of Transportation and Fuels at the Great Plains Institute, will discuss multistate efforts in the Midwest |
| 3:35 PM | Presentation and Q&A: Duke Nicholas Institute (10 minutes) <ul style="list-style-type: none">• Jennifer Weiss, Senior Policy Associate in the Climate and Energy Program at Duke's Nicholas School of the Environment, will review actions in the Southeast |
| 3:45 PM | Q&A (10 minutes) <ul style="list-style-type: none">• Speakers will take additional questions from working group members |
| 4:00 PM | Closed Door Discussion (30 minutes) <ul style="list-style-type: none">• Working group members will discuss their own views and the actions their states have taken to date. |
| 4:25 PM | Next Steps and Announcements (5 minutes) |
| 4:30 PM | Adjourn |

Roll Call – Read from Webinar

Working Group Members

States:

- ▶ Arizona
- ▶ California
- ▶ Colorado
- ▶ Connecticut
- ▶ D.C.
- ▶ Florida
- ▶ Georgia
- ▶ Hawaii
- ▶ Illinois
- ▶ Maryland

- ▶ Massachusetts
- ▶ Michigan
- ▶ Minnesota
- ▶ Missouri
- ▶ Nevada
- ▶ New Jersey
- ▶ New York
- ▶ North Carolina
- ▶ Ohio
- ▶ Oregon
- ▶ Puerto Rico

- ▶ South Dakota
- ▶ Texas
- ▶ Vermont
- ▶ Washington
- ▶ Wisconsin

National/Federal Partners:

- ▶ NARUC
- ▶ U.S. DOE
- ▶ U.S. EPA



Regional Coordination for Transportation Electrification: REV West

Cassie Powers, NASEO
September 22, 2020



About NASEO



- Formed by the states in 1986
- Membership includes the 56 Governor-designated energy policy officials from each state and territory, as well as private sector affiliates
- Facilitates peer learning across states to improve the effectiveness of energy programs and policies
- Serves as a resource for and about State and Territory Energy Offices
- Advocates on behalf of the State Energy Offices with Congress, federal agencies, and private-sector organizations
- Works through topical committees to facilitate peer learning across states to improve the effectiveness of energy policies and programs
- Visit www.naseo.org for more information



Regional Collaboration: REV West

- Memorandum of Understanding signed by governors of eight states
 - [Original MOU – 2017](#)
 - [Updated MOU – 2019](#)
- Working together to create a seamless EV driving experience across the intermountain west





Key Activities from REV West MOU



Create framework for creating an Intermountain West Electric Vehicle Corridor

Create best practices to enhance EV adoption

Coordinate on charging station locations to avoid redundancy and “minimize inconsistencies between EVSE

Create Voluntary Minimum Standards

Incorporate EV charging into planning and development processes

Encourage EV manufacturers to stock and market within REV West

Identify and collaborate on funding opportunities





Progress

- Over 90 fast-charging stations built or planned by private and public sectors in region since MOU launch
- Voluntary minimum standards for DC fast charging stations released and promoted in REV West states
- Enhanced coordination between state energy, environment, and transportation agencies to identify regulatory barriers to station development and address infrastructure gaps
- Policy Baseline report released

REV WEST: VOLUNTARY MINIMUM STATION STANDARDS

Background

In October 2017, the Governors of Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming signed a Memorandum of Understanding to establish a Regional Electric Vehicle Plan for the West ("REV West Plan"). Through the REV West Plan, the Signatory States are working together to create an Intermountain West Electric Vehicle (EV) Corridor that will make it possible to seamlessly drive an EV across the western states' major transportation corridors. As part of this regional planning effort, the REV West states have developed Minimum Voluntary Standards for the deployment of DC fast-charging stations along the Intermountain West EV Corridor. It will be up to each state to apply these standards as they see fit.

Process

In August 2018, a Voluntary Minimum Standards Working group comprised of REV West states was convened to develop these recommended standards. The group issued a request for information in October 2018 to gather feedback from industry, government, and nonprofit stakeholders on what should be considered in developing these standard recommendations. Using the feedback received, the Working Group developed a set of voluntary minimum standards that the REV West states may follow. The Working Group also established a set of stretch standards for those states that want to go beyond the minimum standards.

Voluntary Minimum Standards

The standards listed below were developed to promote buildout of DC fast-charging stations along the Intermountain West EV Corridor that are convenient, reliable, and safe for EV drivers. While these standards are voluntary, they represent minimum best practices, and their use will help ensure a consistent and consumer-friendly experience. Across the Intermountain West, conditions may exist at some potential locations that limit application of all minimum standards or lack the amenities found in more populated areas. For instance, some locations may lack adequate electrical capacity to install a DC fast-charging station. Where this is the case, states are encouraged to provide or promote the development of charging options that still meet as many of the minimum standards as possible. Stretch standards are included in italics. The Voluntary Minimum Standards Working Group will update these standards as needed.

Station Siting Standards

REV West states should work to ensure that charging stations are sited in consumer-friendly locations. Whenever possible stations should be sited in locations that allow:



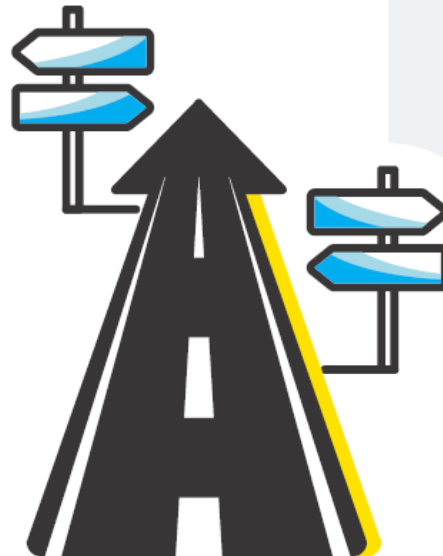
Progress: CORWest

- Pursued and obtained federal funding to identify barriers, raise awareness, and enhance accessibility in rural and remote areas, and coordinate infrastructure investment through “CORWest” project with Clean Cities Coalitions

Needs Assessment,
Tool Aggregation &
Strategy Development



Communication,
Branding, EV
Materials Toolkit



Infrastructure
Deployment,
Consumer Demand,
and Replication





More Information



More information can be found on the REV West webpage here:

<https://www.naseo.org/issues/transportation/rev-west>

*Please contact Cassie Powers, Managing Director of Programs, NASEO
with questions (cpowers@naseo.org).*



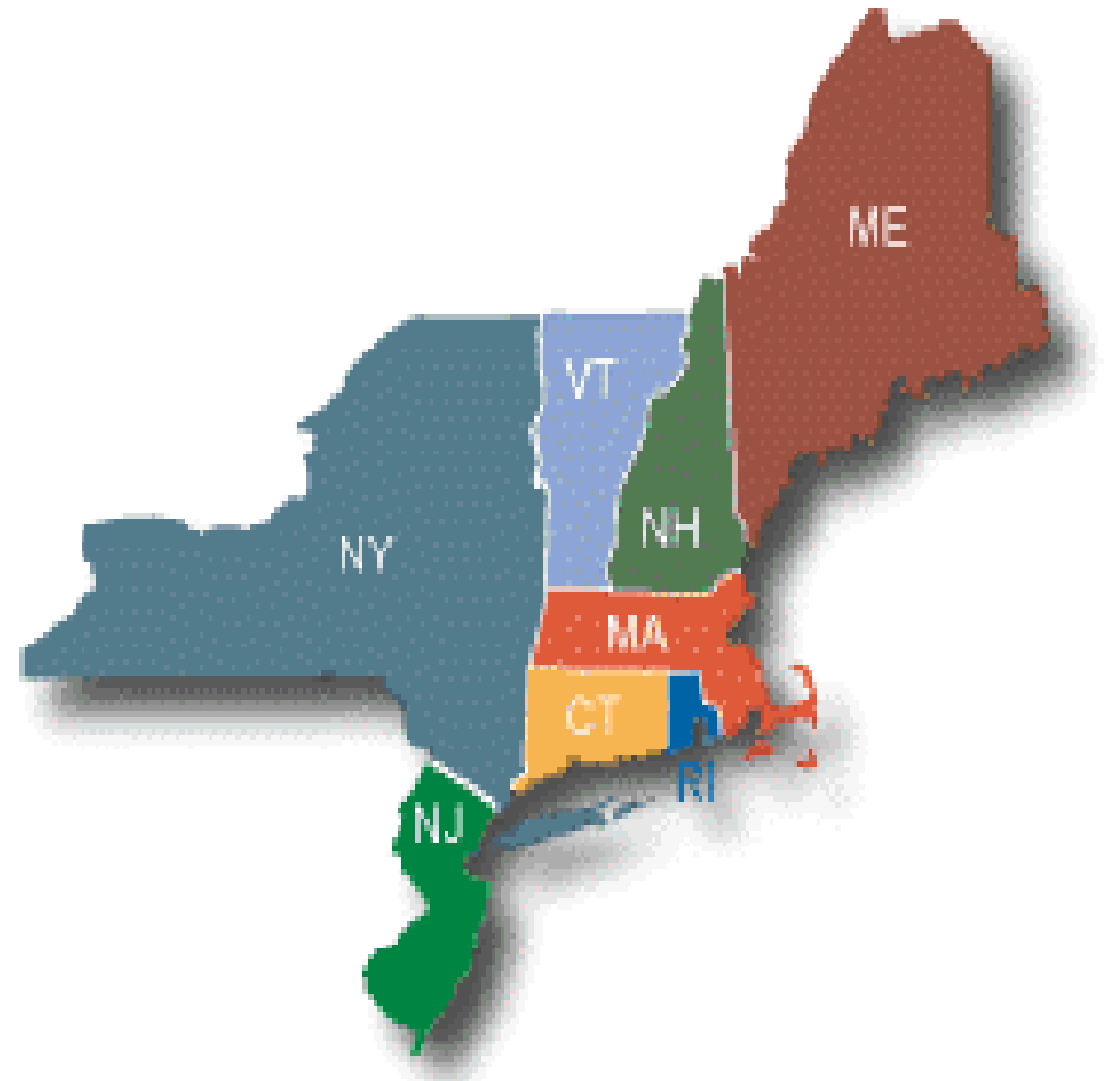
Multi-State Zero Emission Vehicle Initiatives

Kathy Kinsey
Senior Policy Advisor

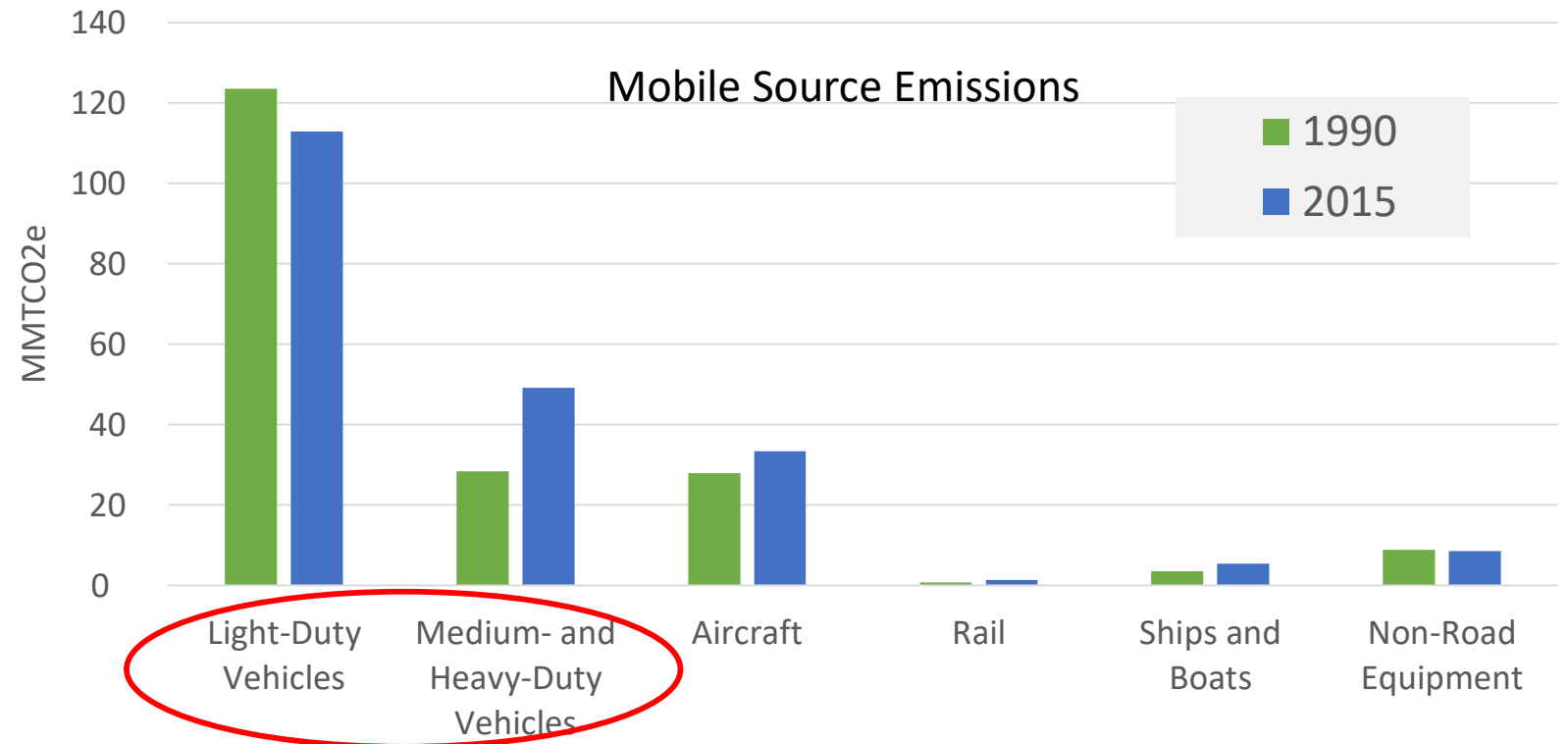
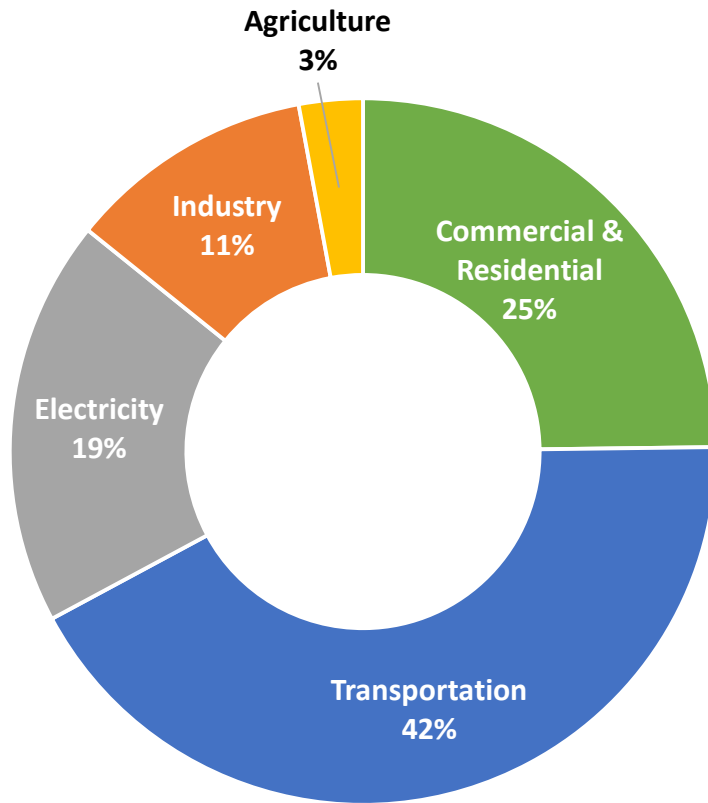
September 22, 2020

About NESCAUM

- An association of the air pollution control agencies of the six New England states, New Jersey and New York formed in 1967
- Serve as a technical and policy advisor on air quality, climate and clean transportation issues
- Significant focus on transportation electrification
- Seven of eight NESCAUM states have adopted California's motor vehicle emission standards under Section 177 of the Clean Air Act

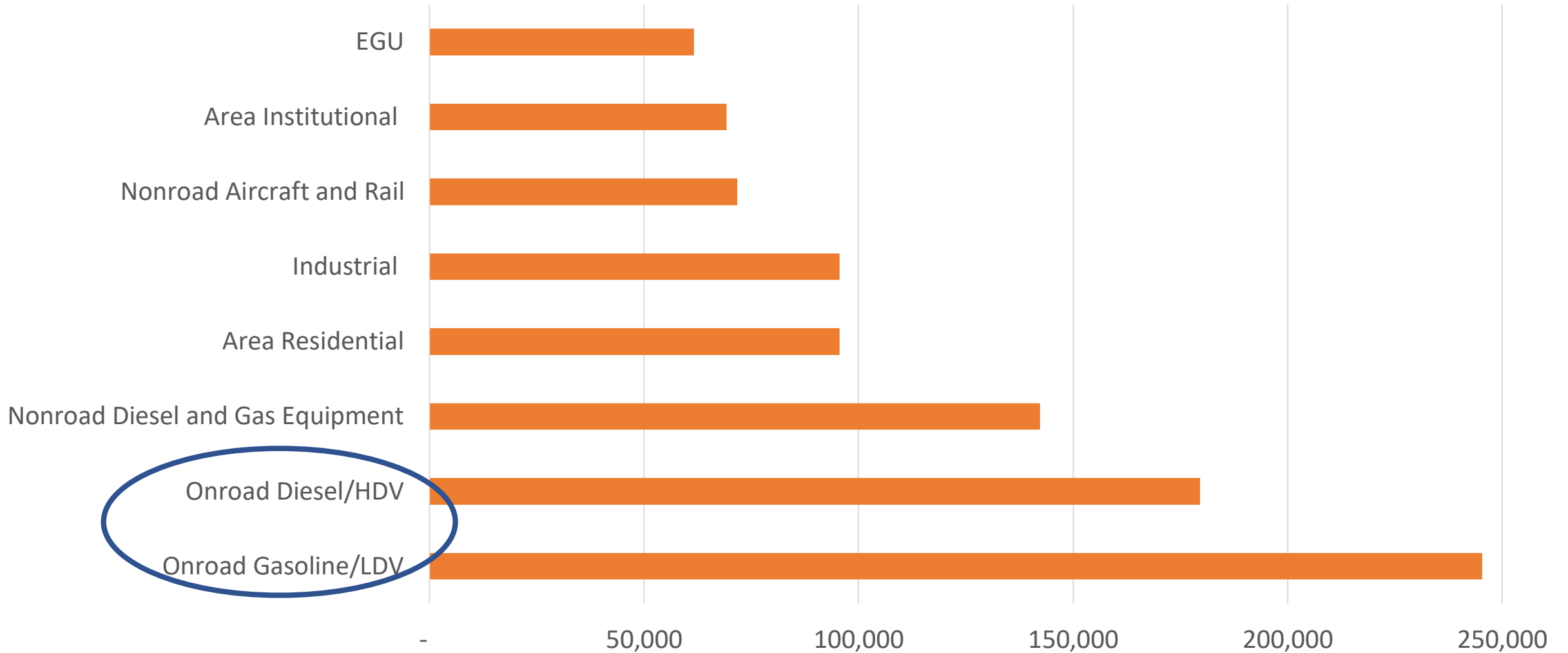


Greenhouse Gas Emissions in the NESCAUM States

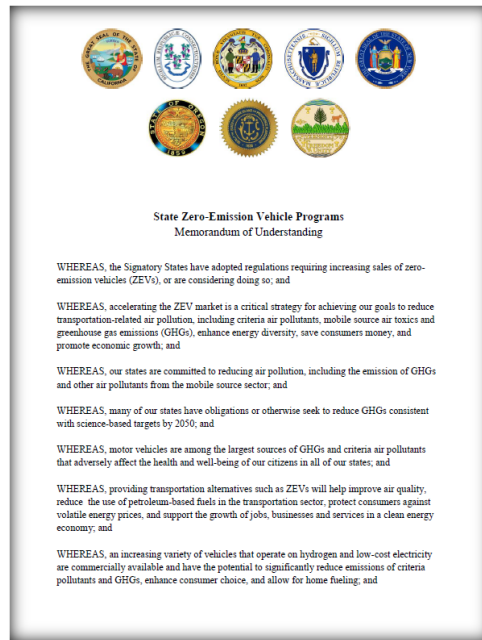


Source: State Inventory Tool (2015 emissions)

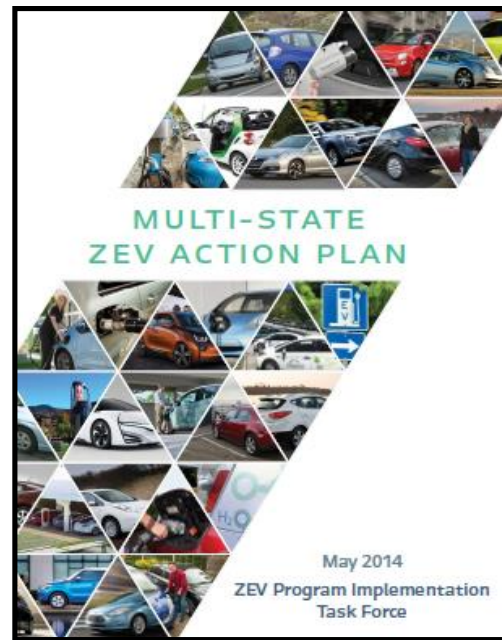
2017 NOx Emissions (Tons) in Mid-Atlantic/Northeast



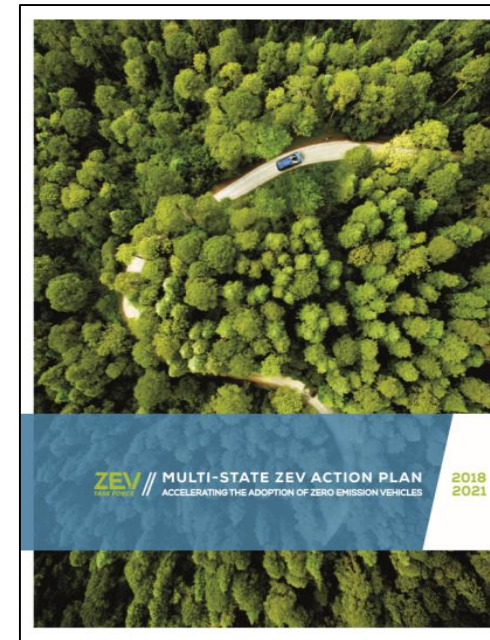
Multi-State Electric Vehicle Initiatives



2013
Governors MOU



2014
ZEV Action Plan



ZEV Action Plan
2018 – 2021



2018 Regional EV
Charging Infrastructure Plan

Medium- and Heavy-Duty ZEV MOU



MULTI-STATE MEDIUM- AND HEAVY-DUTY ZERO EMISSION VEHICLE

MEMORANDUM OF UNDERSTANDING

WHEREAS, the Signatory States and the District of Columbia¹ recognize the importance of state leadership and coordinated state action to ensure national progress in the effort to reduce greenhouse gas (GHG) emissions and stabilize global warming;

WHEREAS, the Signatory States have statutory obligations or otherwise seek to significantly reduce statewide GHG emissions by 2050, consistent with science-based targets;

WHEREAS, transportation is now the nation's largest source of GHG emissions, and, after light-duty vehicles, medium- and heavy-duty trucks are the next largest source of transportation sector GHG emissions;

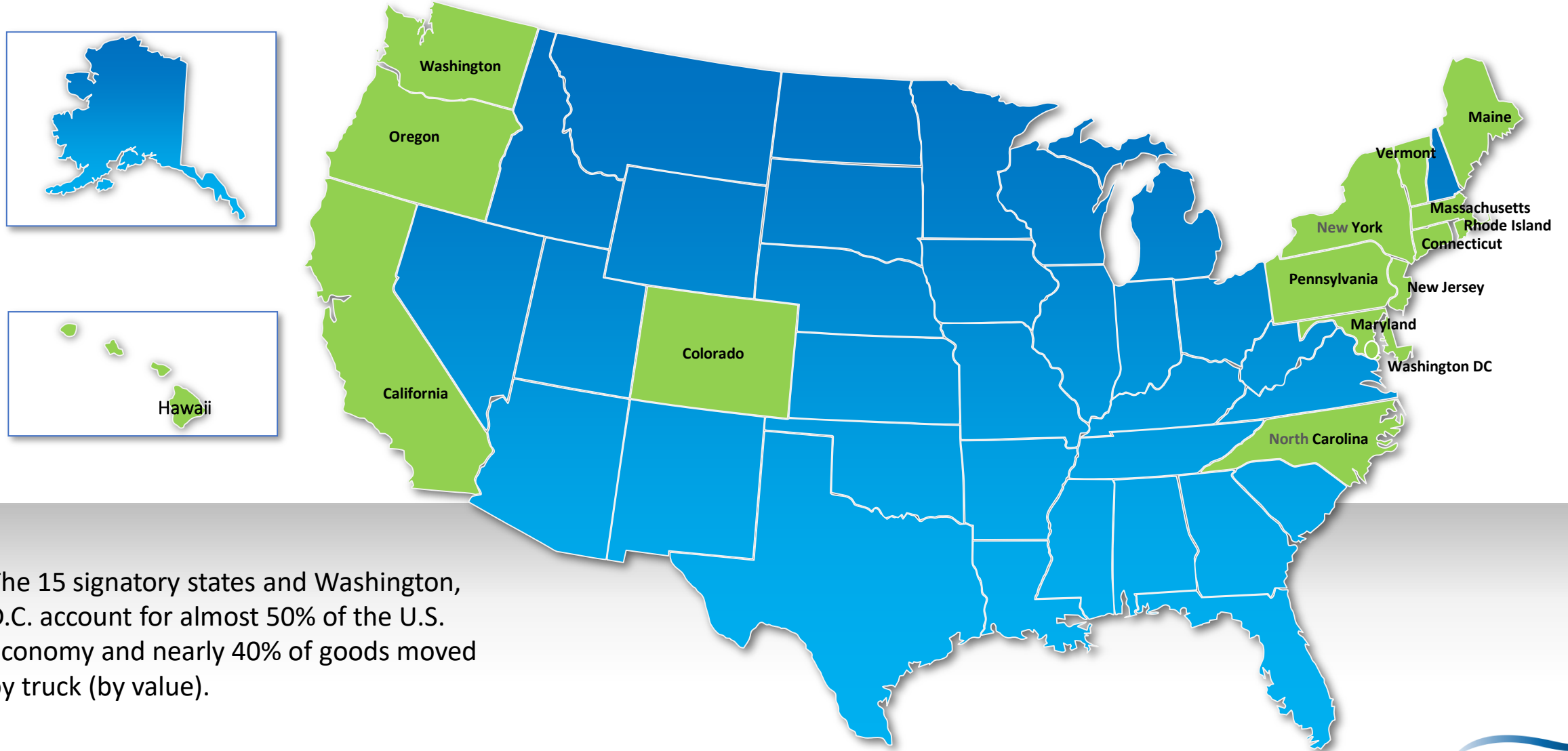
WHEREAS, the Signatory States have a statutory obligation to provide their citizens with air quality that complies with national health-based air quality standards, which are required to be protective of health and the environment with an adequate margin of safety;

WHEREAS, fossil fuel related emissions from medium- and heavy-duty vehicles (MHDVs) are a major source of nitrogen oxides (NO_x), particulate matter, and toxic air emissions, which are preventing many densely populated areas from achieving compliance with federal ambient air quality standards;

WHEREAS, emissions from MHDVs are a widely acknowledged, but unaddressed, environmental justice problem that directly and disproportionately impacts disadvantaged communities located near freight corridors, ports and distribution centers;

- Announced in July 2020.
- Builds off success of 2013 MOU and ZEV Action Plans for passenger cars and trucks.
- Commits signatories to work together to foster a self-sustaining market for zero emission trucks and buses.
- Sets sales goals: 30% of new truck and bus sales to be zero-emission by 2030 and 100% by 2050.
- Emphasizes deployment of zero-emission trucks and buses to benefit disadvantaged communities.
- Directs the existing multi-state ZEV Task Force to develop and implement a MHD ZEV Action Plan.

MHD ZEV MOU SIGNATORIES



The 15 signatory states and Washington, D.C. account for almost 50% of the U.S. economy and nearly 40% of goods moved by truck (by value).

Sources:

U.S Bureau of Economic Analysis <https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1>;

FHWA Freight Analysis Framework <https://faf.ornl.gov/faf4/Extraction1.aspx>

FIRST STEP – STAKEHOLDER OUTREACH



- Disadvantaged/EJ Community Advocates
- Truck and Bus Manufacturers
- Battery Manufacturers
- Trucking Companies
- EVSE Providers
- Utilities
- Commercial Fleets
- Environmental Advocates
- Labor Unions

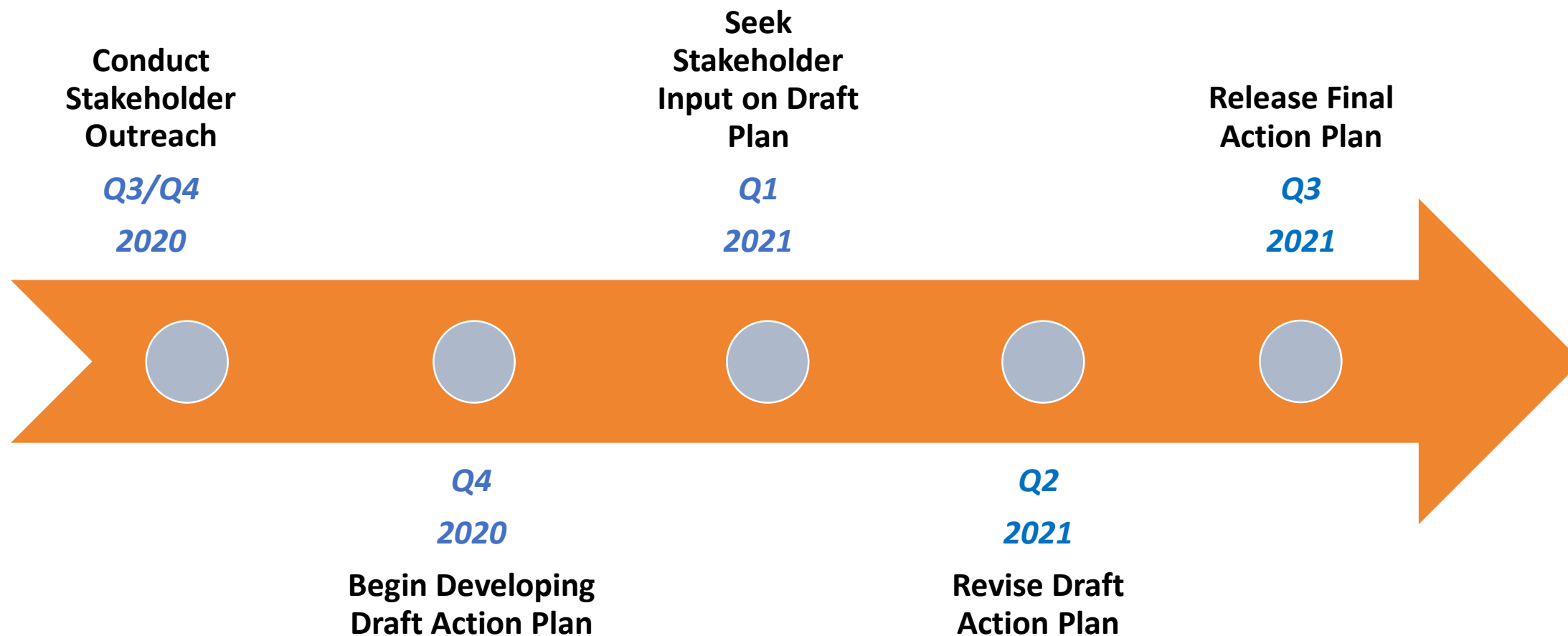


NEXT STEP – Action Plan Development

The MHD ZEV Action Plan developed by the Task Force will consider the need for a range of market-enabling actions such as:

- Incentives for vehicles and infrastructure;
- Adoption of regulatory standards (e.g., California's Advanced Clean Trucks Regulation);
- Utility actions to support infrastructure buildout and beneficial rate design;
- Measures to increase the use of zero emission trucks and delivery vans in densely populated areas;
- Innovative financing models and new funding sources;
- Actions to encourage fleet purchases; and
- Uniform standards and data collection requirements.

Tentative Timeline



Resources for Truck and Bus Electrification

- Navigant, Ceres, the California Trucking Association. *The Road to Fleet Electrification: Eight ways utilities, regulators and policymakers can enable fleet operators to electrify commercial transportation and reduce carbon emissions.* May 2020.
<https://www.ceres.org/resources/reports/road-fleet-electrification>
- Whited, Melissa; Frost, Jason; Havumaki, Ben. *Best Practices for Commercial and Industrial EV Rates.* Synapse Energy Economics, Inc, May 2020.
https://www.synapse-energy.com/sites/default/files/Best-Practices-Commercial-Industrial-EV-Rates_18-122.pdf
- Fitzgerald, Garrett, and Chris Nelder. *DCFC Rate Design Study.* Rocky Mountain Institute, 2019.
<http://www.rmi.org/insight/DCFC-rate-designstudy>
- Cynthia Shahan, Cleantechnica, *West Coast Electric Utilities Map Out I-5 Electric Truck Charging Sites.* June 2020.
<https://cleantechnica.com/2020/06/25/west-coast-electric-utilities-map-out-i-5-electric-truck-charging-sites/>



For questions, please contact:

Kathy Kinsey // kkinsey@nescaum.org



Transportation Electrification Coordination in the Southeast

**NARUC EV Working Group
September 22, 2020**



Nicholas Institute for Environmental Policy Solutions

Our Mission Statement:

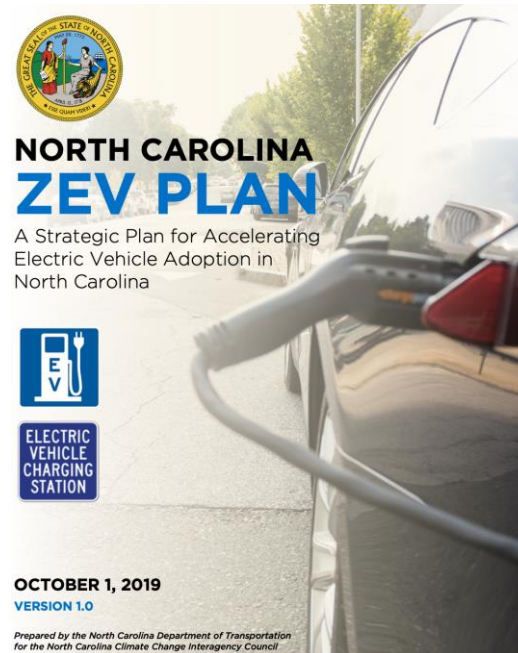
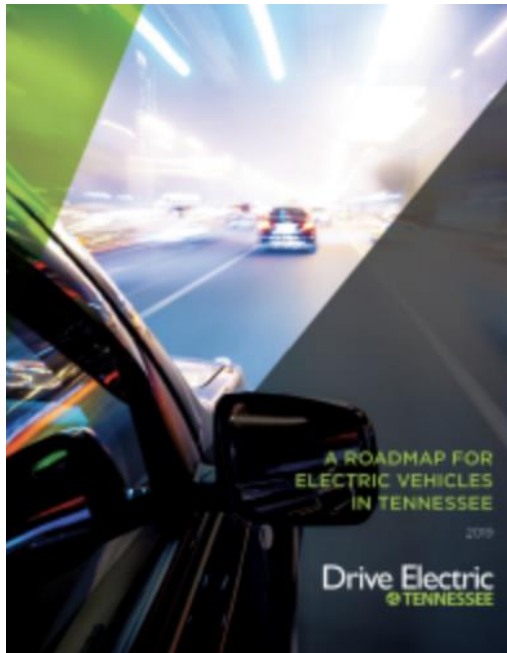
To help decision makers create timely, effective, and economically practical solutions to the world's critical environmental challenges.

Electrifying the Southeast

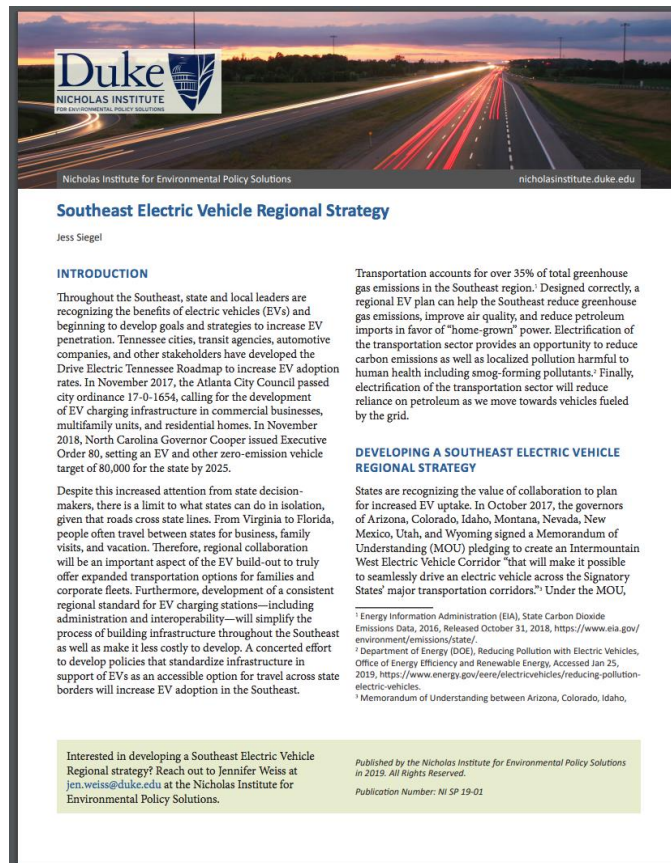


- Over 97 million people
- 580,000 square miles
- Over 18,000 miles of coastline (plus, mountains, lakes, cultural destinations)
- Home to light, medium and heavy duty vehicle manufacturers

State-focused Initiatives



Benefits of Regional EV Collaboration



- Coordinated network of charging infrastructure
- Accessibility of EVs in rural communities.
- Voluntary minimum standards for EV infrastructure
- EV-ready building codes
- Economic development opportunities
- Regional plan for marketing, education, and outreach that promotes EV adoption in the region

Southeast Coordination

- Southeast EV Information Exchange
 - State Energy Offices
- Southeast Regional EV Partnership
 - Academic, Industry, NGOs, Utilities
- Southeast Regional EV Initiative (SE REVI)
 - Governor's offices, DOTs, state agencies
- Electrify the South

Southeast EV Information Exchange

- Led by Southeast State Energy Offices
 - Facilitated by NASEO and Nicholas Institute
- Share information and best practices
- Identify potential areas for collaboration
 - EV Infrastructure
 - Education and outreach
 - Policy development
- Promote EV solutions in rural and low-income communities

Southeast Regional EV Partnership



Proposed: Southeast Regional EV Initiative (SE REVI)

Voluntary agreement, signed by SE Governors:

Promote and enable EV adoption in the Southeast to provide new economic opportunities for the states, helping to grow an already vibrant auto manufacturing industry and promoting zero emission vehicle (ZEV)-based tourism



ELECTRIFY THE SOUTH

A PROGRAM OF SOUTHERN ALLIANCE FOR CLEAN ENERGY



HOME

DRIVING ELECTRIC

RESOURCES

TAKE ACTION

POLICY

REPORTS

TEST DRIVE AN EV

PROTECT OUR COAST: DRIVE ELECTRIC

WE'RE GOING ELECTRIC!

Electrify the South is a program of the Southern Alliance for Clean Energy to educate and empower individuals, communities, municipalities, policymakers, and utilities to transition to clean, electric transportation throughout the Southeast.



<https://www.electrifythesouth.org>

Questions??

Jen Weiss
Senior Policy Associate
jen.weiss@duke.edu
504-606-8148

Peer Discussion – Commissioners and Commission Staff Only

Facilitators

- ▶ Working Group Chair Maria Bocanegra and Illinois Commerce Commission Staff
- ▶ Working Group Vice-chair Jason Stanek and Maryland Public Service Commission Staff

Discussion Questions

- ▶ What challenges do you anticipate will emerge for commissions around regional coordination?

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- ▶ Do you expect that your commissions would be interested in getting involved in regional efforts? If so, how?

Discussion Questions

- ▶ What challenges do you anticipate will emerge for commissions around regional coordination?
- ▶ Do you expect that your commissions would be interested in getting involved in regional efforts? If so, how?
- ▶ Do your state regulations prohibit utilities from cost-sharing on federal grant projects? If so, how has your commission dealt with these issues?

Upcoming EV SWG Calls: Always on a Tuesday, 3-4:30pm ET / 12-1:30pm PT

- ▶ Next webinar: **October 27: State policy development**
 - ▶ Dates for your calendar: **November TBD** (likely annual meeting session), **December 15** (*moved from 12/22*)
- ▶ Annual Meeting **Nov 5-6 & 9-11**
 - ▶ Concurrent Session: **Nov 10th- *Preparing for Commercial Fleet Electrification: Where will EV fleet growth occur and how will that affect charging infrastructure buildouts?***
- ▶ EVSWG Listserv: NARUC-EVSWG@lists.naruc.org
- ▶ Presentations and recordings of past EVSWG events: www.naruc.org/cpi-1/energy-infrastructure-modernization/electric-vehicles/