NESCAUM

Electrifying Trucks and Buses:
Multi-State MHD ZEV Initiative

October 22, 2020

Medium- and Heavy-Duty Zero Emission Vehicle MOU

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

MEMORANDUM OF UNDERSTANDING

WHEREAS, the Signatory States and the District of Columbia[1] 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 (NOx), 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;

- Builds off success of 2013 governors MOU and subsequent Action Plans for light-duty vehicles.

- Commits signatories to work together to foster a self-sustaining market for zero emission medium- and heavy-duty vehicles.

- Calls for 30% of new truck and bus sales to be zero-emission by 2030 and 100% by 2050.

- Emphasizes need to accelerate deployment of zero-emission trucks and buses in disadvantaged communities.

- Directs development and implementation of a MHD ZEV Action Plan.
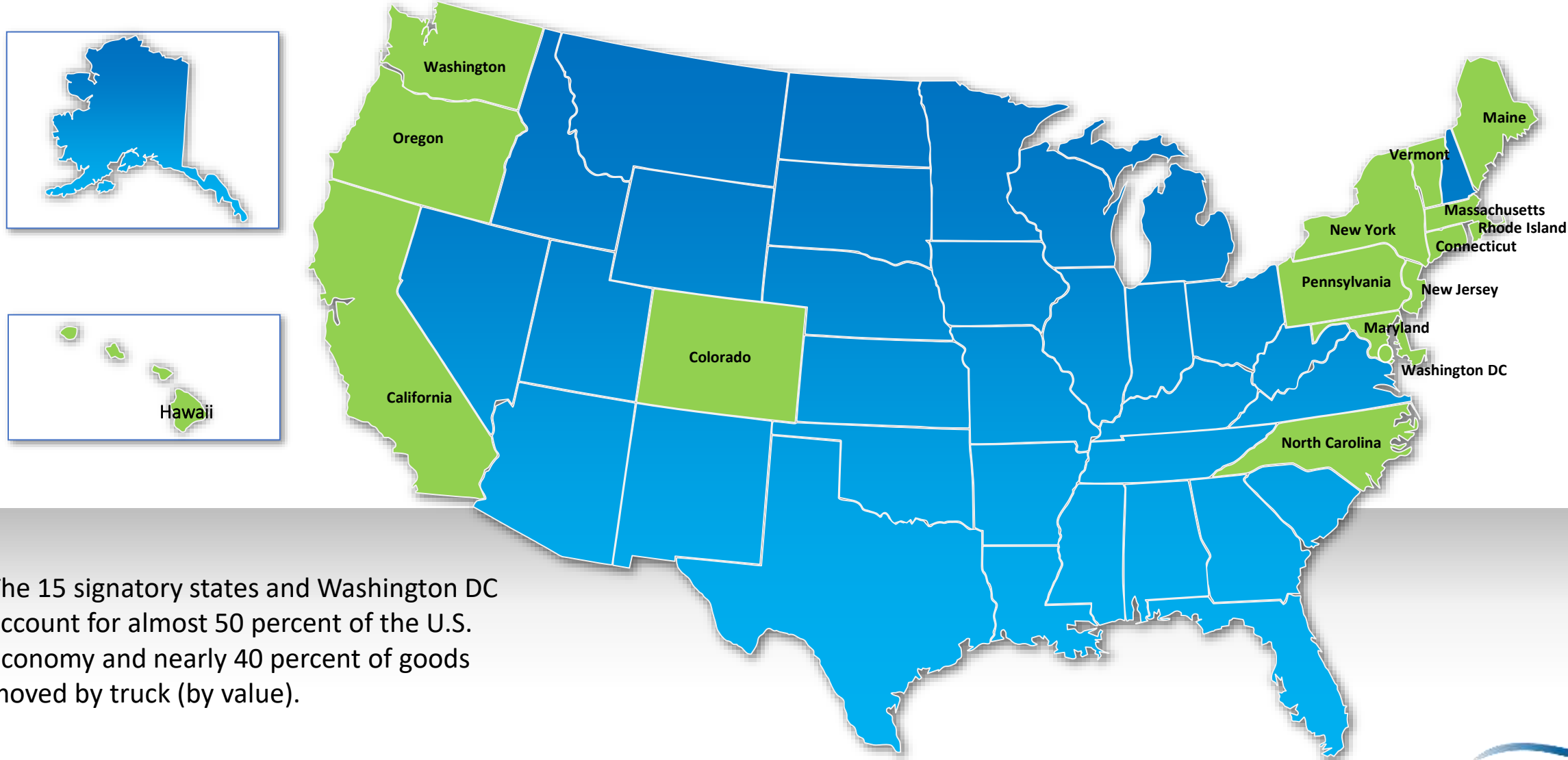
NESCAUM

Truck Classifications

- Vehicle classes are based on gross vehicle weight rating (GVWR).

- Class 2 is subdivided into:
  - Class 2a vehicles with a GVWR of 6,001-8,500 lbs.; and
  - Class 2b vehicles with a GVWR of 8,501-10,000 lbs.

- MHDVs consist of classes 2b-8.

Source: U.S. Department of Energy

Class 1 - 6,000 lbs & Less
Minivan | Cargo Van | SUV | Pickup Truck

Class 2 - 6,001 to 10,000 lbs
Minivan | Cargo Van | Full-Size Pickup | Step Van

Class 3 - 10,001 to 14,000 lbs
Walk-in | Box Truck | City Delivery | Heavy-Duty Pickup

Class 4 - 14,001 to 16,000 lbs
Large Walk-in | Box Truck | City Delivery

Class 5 - 16,001 to 19,500 lbs
Bucket Truck | Large Walk-in | City Delivery

Class 6 - 19,501 to 26,000 lbs
Beverage Truck | Single-Axle | School Bus | Rack Truck

Class 7 - 26,001 to 33,000 lbs
Refuse | Furniture | City Transit Bus | Truck Tractor

Class 8 - 33,001 lbs & Over
Cement Truck | Truck Tractor | Dump Truck | Sleeper

MHD ZEV MOU Signatories

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

NESCAUM

NEXT STEPS
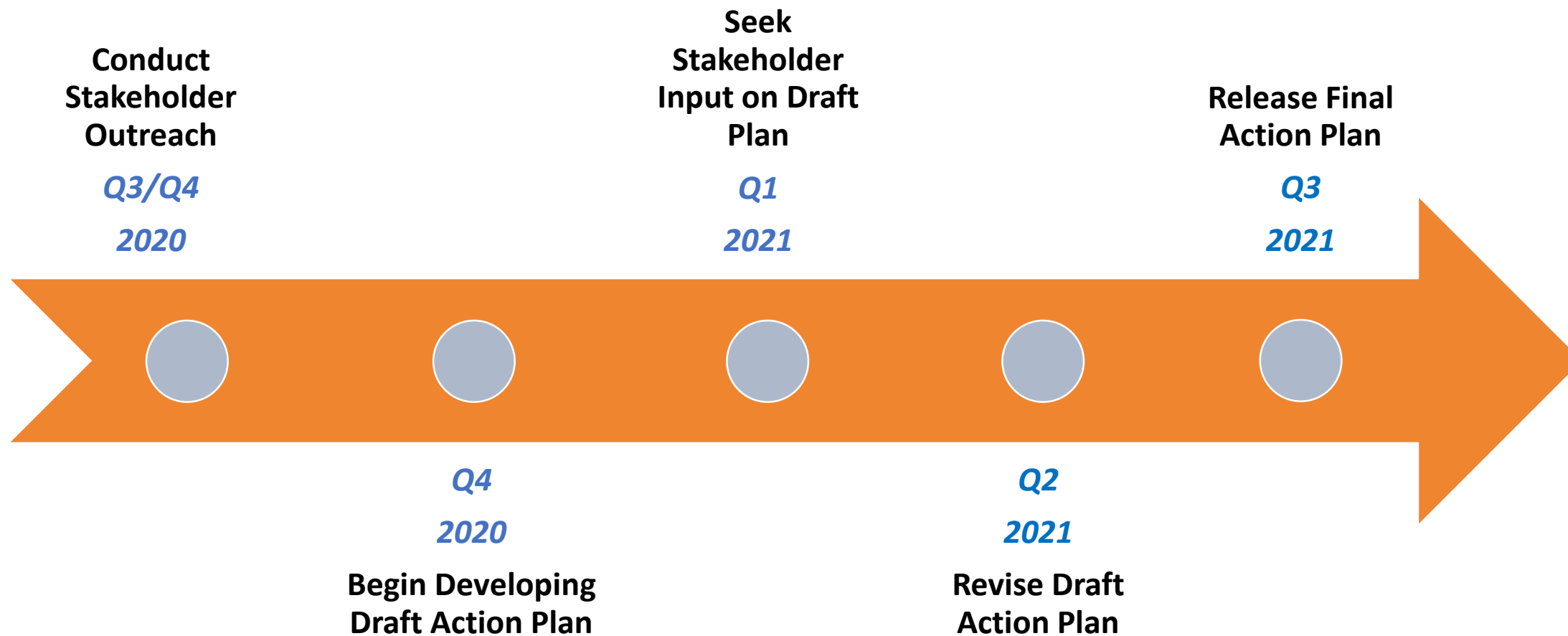

The ZEV Task Force will conduct stakeholder outreach and develop a multi-state Action Plan that considers the need for market-enabling actions such as:

- 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

Conduct Stakeholder Outreach

Q3/Q4

2020

Seek Stakeholder Input on Draft Plan

Q1

2021

Release Final Action Plan

Q3

2021

Q4

2020

Begin Developing Draft Action Plan

Q2

2021

Revise Draft Action Plan

NESCAUM

REQUEST FOR INPUT

- What are you concerned or excited about?

- What data or studies do you have?

- Are there model or pilot programs we should know about?

- Are there experts we should talk to?

- Are there particular strategies we should consider for the Action Plan?

NESCAUM

Questions?

Please contact:

Colton Brown coltbrown@pa.gov

PA Department of Environmental Protection