Medium- and Heavy-Duty Zero Emission Vehicle Memorandum of Understanding

Air Quality Technical Advisory Committee Meeting
December 10, 2020
Harrisburg, PA

Tom Wolf, Governor
Patrick McDonnell, Secretary
Greenhouse Gas Emissions in the Northeast

- Transportation: 42%
- Commercial & Residential: 25%
- Electricity: 19%
- Industry: 11%
- Agriculture: 3%

Source: State Inventory Tool (2015 emissions excludes Pennsylvania)
Greenhouse Gas Emissions in Pennsylvania

- Industry: 31%
- Electricity: 29%
- Transportation: 24%
- Residential and Commercial: 11%
- Waste: 2%
- Agriculture: 3%

Source: State Inventory Tool (2017)
2017 NOx Emissions in Mid-Atlantic/Northeast

- EGU
- Area Institutional
- Nonroad Aircraft and Rail
- Industrial
- Area Residential
- Nonroad Diesel and Gas Equipment
- Onroad Diesel/HDV
- Onroad Gasoline/LDV

Tons
MOU Concepts

• Commits signatories to work together to foster a self-sustaining market for zero emission medium- and heavy-duty duty (MHD) vehicles.
• Call 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 MHD ZEV Action Plan.
Affected Vehicles

Truck Classifications

- Vehicle classes are based on gross vehicle weight rating (GVWR)
- Class 2 is subdivided into:
  - Class 2a with a GVWR of 6,001-8,500 lb; and
  - Class 2b vehicles with a GVWR of 8,501-10,000 lb.
- MHDVs consist of classes 2b-8.
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).

Sources:
U.S. Bureau of Economic Analysis [https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1](https://apps.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1)
Tentative Timeline

- **Conduct Stakeholder Outreach**
  - Summer 2020

- **Seek Stakeholder Input on Draft Plan**
  - Jan-Feb 2021

- **State Approval Process**
  - April-May 2021

- **Develop Draft Action Plan**
  - Fall 2020

- **Revise Draft Action Plan**
  - March 2021

- **Release Final Action Plan**
  - 3rd Quarter 2021
Outreach

• NESCAUM is speaking with national leaders in the fields of electric vehicles and infrastructure such as:
  o Automobile Manufacturers
  o Electric Utilities / PUCs
  o Environmental Justice Advocates
  o NGOs
  o Electric Vehicle Supply Equipment Providers
  o Commercial Truck Fleets

• DEP will continue outreach efforts to engage similar types of Pennsylvania-specific stakeholder groups.
Contact

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