Environmental Quality Commission Meeting

New Medium- and Heavy-Duty Truck Standards

Agenda Item D, Informational Item May 20, 2021

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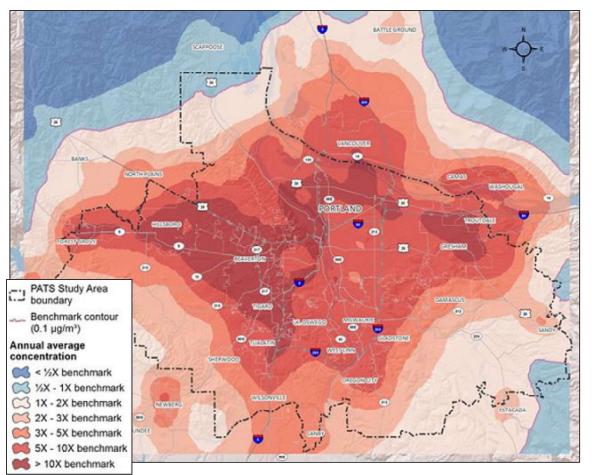
Air Quality Division | Oregon Department of Environmental Quality

Agenda Topics

- Background
- CARB Advanced Clean Trucks rule
- CARB Low NOx Omnibus rule
- Additional Low Emission Vehicle (LEV) rule updates
- Next steps



Diesel Background – Impacts



- Diesel PM causes cancer and other health effects
- Diesel trucks are a major contributor to smog-forming pollution
- Diesel engine exhaust disproportionately impacts communities of color
- Transportation, including freight, is the largest source of GHG emissions in Oregon

Diesel Background – Strategy



Adopt new and cleaner technologies

Support owners and operators transition their fleets



Legal Authorities – Onroad Trucks

Emissions standards for <u>in-use</u> engines

Emissions standards for <u>new</u> engines

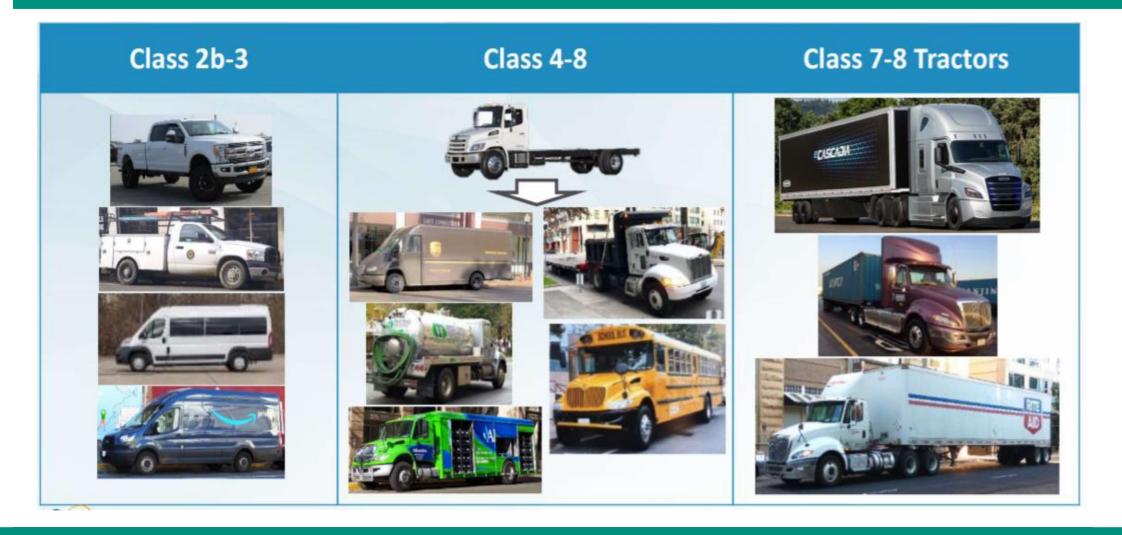


Oregon may adopt its own emission standards for inuse onroad engines. Oregon cannot establish
emission standards for new
onroad engines (motor
vehicles) separate from
federal requirements –
except when adopting
California standards.

Oregon adopted California's Low Emission Vehicle and Zero Emission Vehicle standards for passenger cars and trucks (2005)



Adopt by Reference – California's Advanced Clean Trucks Rule

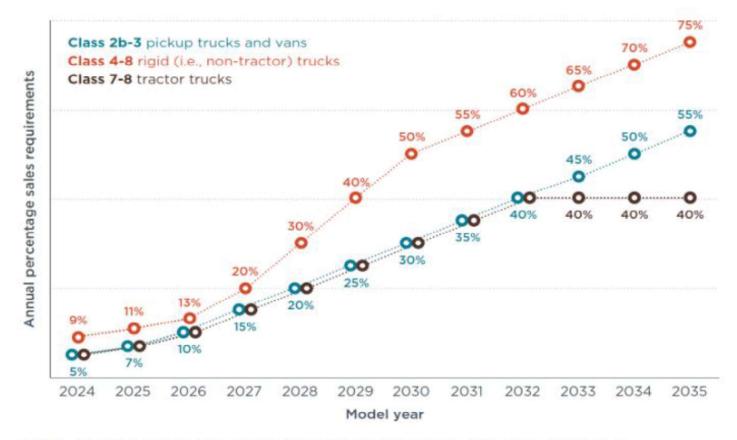




Electric Trucking



Adopt by Reference – California's Advanced Clean Trucks Rule





Source: https://theicct.org/sites/default/files/publications/CA-HDV-EV-policy-update-jul212020.pdf



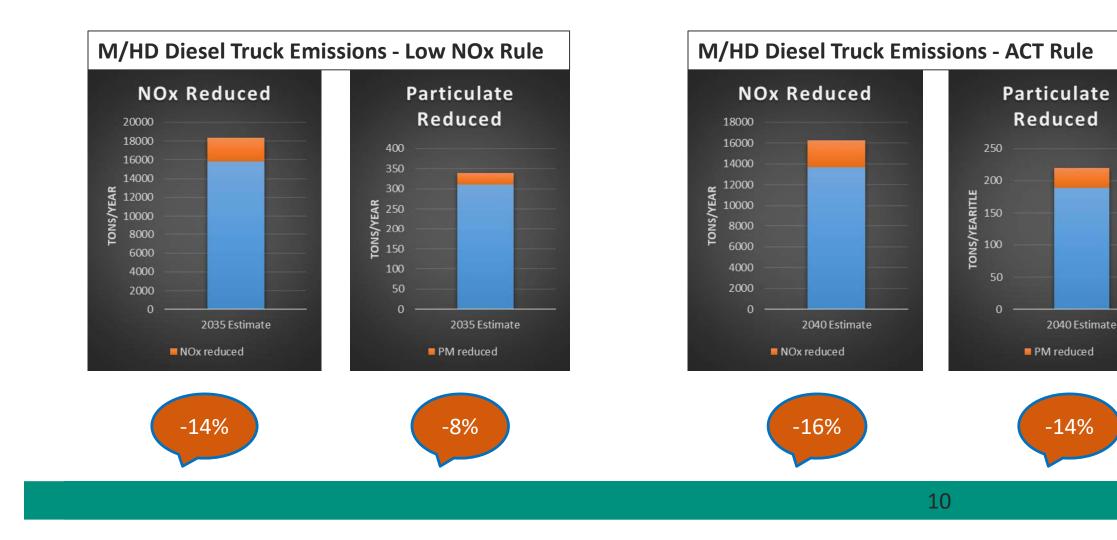
Adopt by Reference – CARB's Heavy-Duty Low NOx Omnibus Rule

- Heavy-Duty Low NOx
 Program Elements
 - Lower NOx and PM_{2.5}
 standards for new truck engines
 - Useful Life and Warranty Periods
 - Testing
 - Other Elements





Estimated Pollutant Reductions



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Adopt by Reference – CARB's Low Emission Vehicle (LEV) Rule Updates

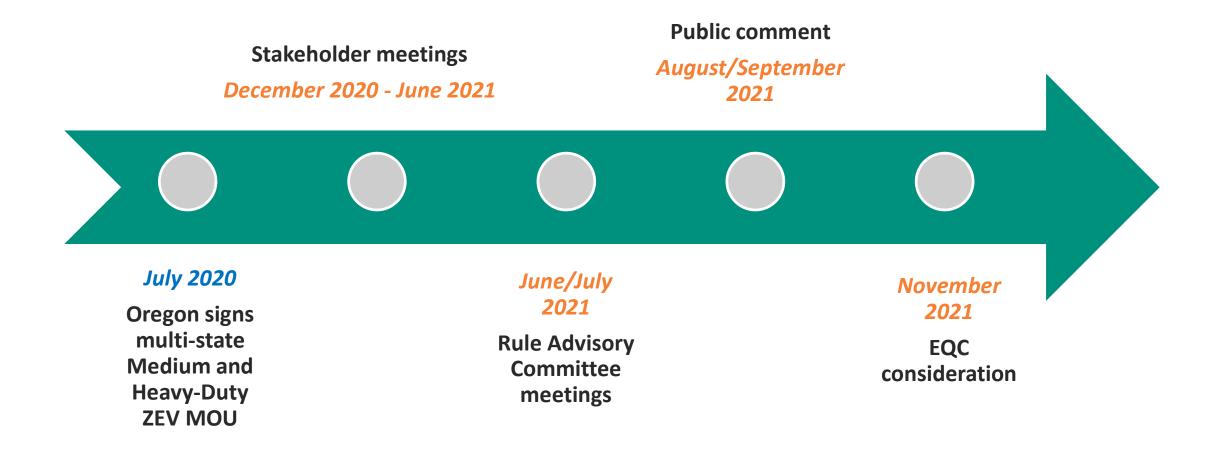
Updates to maintain existing denticality with LEV rules

 On-Board Diagnostic (OBD II) requirements for light-duty vehicles





Actions and Next Steps







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