

TRANSPORTATION ELECTRIFICATION

Infrastructure Needs Analysis (TEINA)



Winter 2020



Background

Governor Brown's Executive Order 20-04 calls for the significant reduction of greenhouse gas (GHG) emissions in Oregon.

The transportation sector is responsible for about 40% of Oregon's GHG emissions, the largest of any single source. Transitioning gasoline-powered vehicles to zero-emission vehicles (ZEVs) powered by electricity is an important step in reducing GHG emissions.

A critical driver in the widespread adoption of ZEVs is convenient, accessible charging infrastructure for all Oregonians. The Oregon Department of Transportation Climate Office, working closely with the Oregon Department of Energy, is conducting the TEINA study to identify the charging infrastructure gaps, needs and opportunities statewide to support and accelerate ZEV adoption. The study team will report their findings to the Governor in June 2021 to inform future decisions about ZEV charging infrastructure.

Electrification Goals for Light-Duty ZEVs in Oregon (Senate Bill 1044, 2019):

| | | |
|------|----------------------|---|
| 2020 | 50,000 | registered ZEVs |
| 2025 | 250,000 | registered ZEVs |
| 2025 | 25% | of new state agency light-duty fleet vehicle purchases/leases are ZEVs where feasible and comparable ZEV models are available |
| 2029 | all new | state agency light-duty fleet vehicle purchases/leases are ZEVs where feasible and comparable ZEV models are available |
| 2030 | At least: 25% | of registered vehicles are ZEVs |
| | 50% | of new vehicles sold annually are ZEVs |
| 2035 | At least: 90% | of new vehicles sold annually are ZEVs |

TEINA Study Objectives



To help meet Oregon's transportation electrification and GHG emissions reduction goals, this study will:

- **Develop a vision** of the charging infrastructure needed.
- **Highlight charging infrastructure needs** for light-duty ZEVs in support of the statewide adoption targets for 2025, 2030 and 2035 included in Senate Bill 1044.
- **Provide a near-term and long-term high-level overview** of the charging infrastructure needs for other vehicle classes and use types, ranging from medium- and heavy-duty trucks and buses to e-bikes and e-scooters.
- **Assess the unique charging infrastructure needs** to support transportation electrification in all areas of the state, including rural areas and underserved communities.
- **Propose policy options and identify ways to expand charging infrastructure** to accelerate statewide transportation electrification.
- **Position Oregon to develop an overall ZEV charging infrastructure strategy** that will inform development of EV charging infrastructure.

Visit the TEINA study website to:

- Read more about this study and supplemental efforts
- Sign up to receive project emails
- Learn more about upcoming Advisory Group meetings



www.oregon.gov/odot/Programs/Pages/TEINA.aspx



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