

Climate Office Update

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January 20, 2022

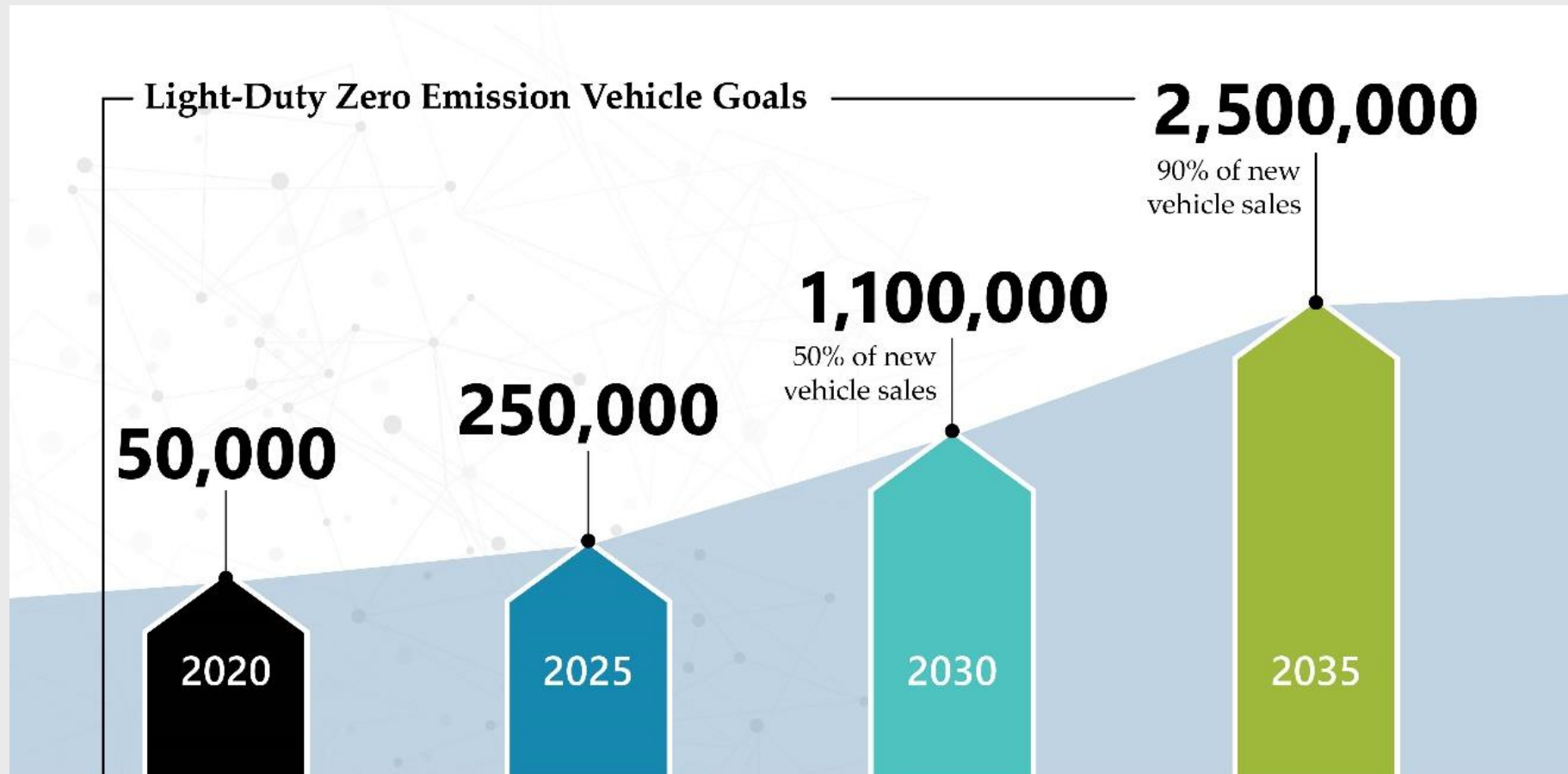
Topics

- Transportation Electrification: Hydrogen Pathway Study
- ODOT Operations, Materials and Fuels
- Climate Lens in Decision Making

Climate Action Plan 2021-2026

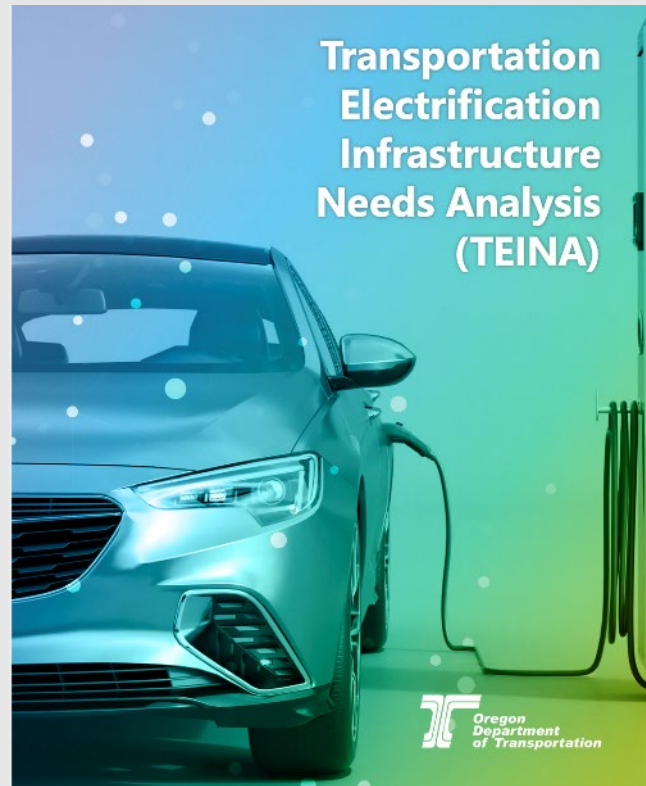


Zero Emission Vehicle Goals

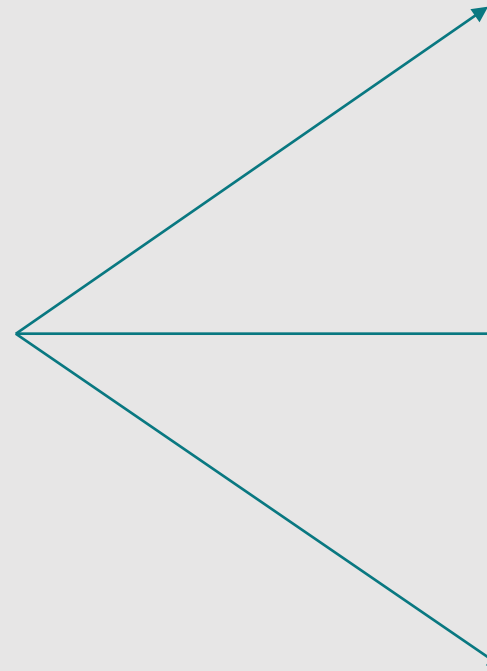


Oregon Senate Bill 1044

Infrastructure Needs Analysis



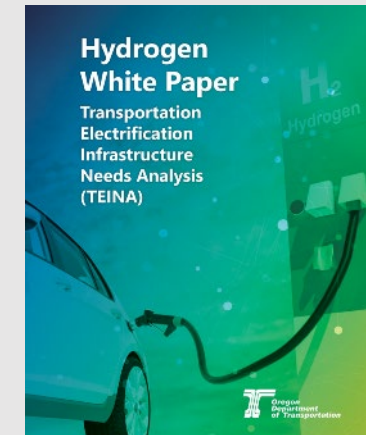
July 2021: Analysis of EV charging needs to meet goals



Charging
Infrastructure
Strategy – Light
Duty Focus



Hydrogen
Pathway Study



E-micromobility
Analysis



Hydrogen Pathway Study

Near-Term (2022-23)

- Coordinate state and regional hydrogen interests
- Support industry-led technology demonstrations and pilots
- Prepare for Federal funding opportunities

Mid-Term (2024-27)

- Coordinate a regional H₂ corridor
- Coordinate with public and private fleets
- Consider setting H₂-specific targets

Long-Term (2028-35)

- Transition from pilots to scaled projects
- Establish consumer and fleet awareness programs

Hydrogen Pathway Study

- Watch leading market indicators
- Station build-out to coincide with vehicle adoption
- Modeled adoption

By 2025

- 5 passenger fueling stations
- Estimated cost \$10 million

By 2035

- 19 medium and heavy duty truck and bus fueling stations
- 59 passenger car fueling stations
- Estimated **cumulative** cost \$255 million

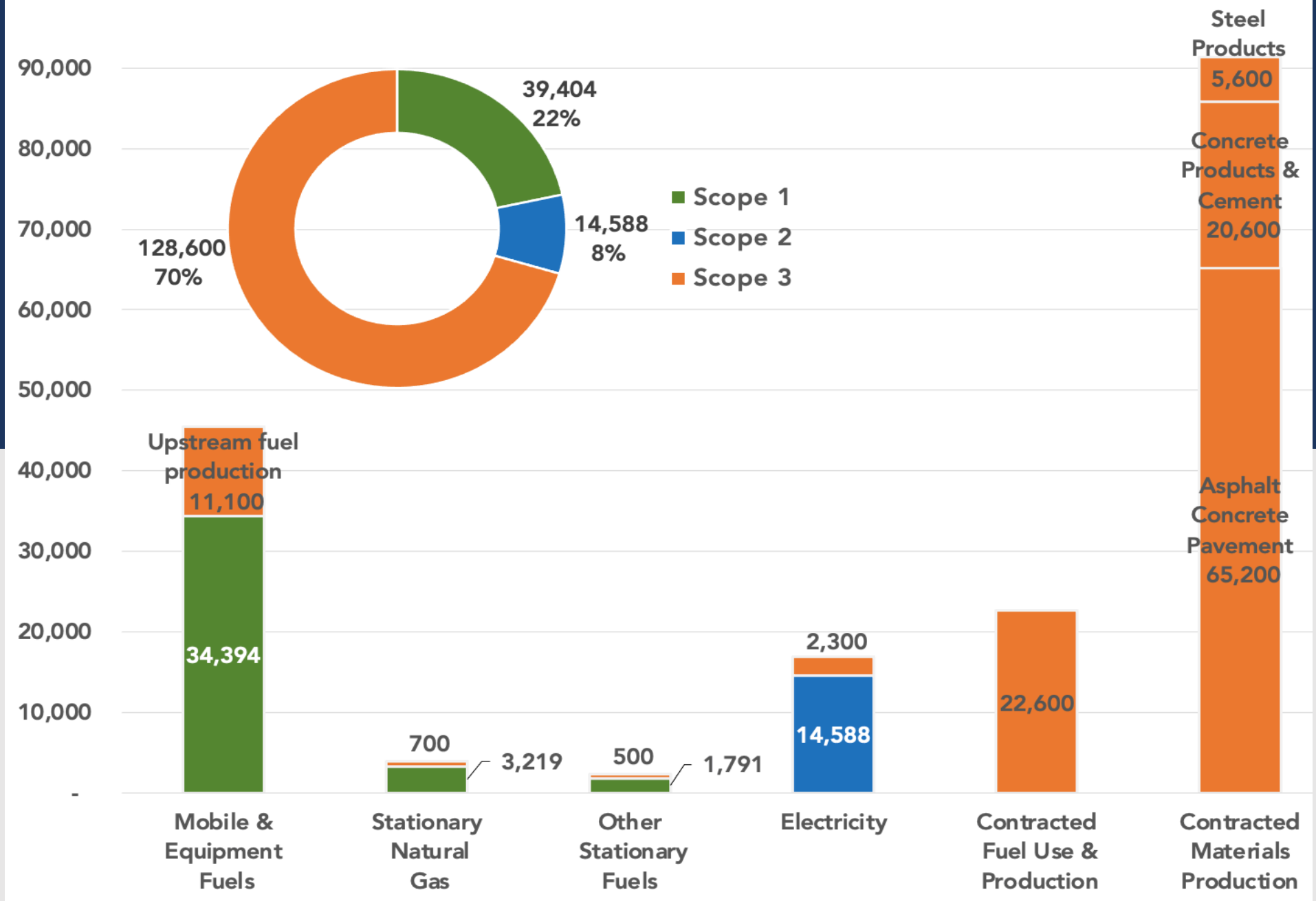


Operations, Materials & Fuels

- Strategic Action Plan:
 - Phase in lower carbon materials, fuels & practices
- Operational GHG Inventory and Recommendations – Completed



Oregon Department of Transportation
Operational Greenhouse Gas Reductions:
Best Practices & Recommendations



Recommendations

- Continue procurement of renewable diesel
- Transition fleet to battery electric and hybrids
- Develop Environmental Product Declaration program
- Purchase renewable electricity and carbon offsets
- Support contractor and materials industry transitions
- Maximize use of alternative cements

2022: Implementation plans and phase-in



Climate Lens on Investment Decisions

PHASE II : GHG LENS IN PROJECT SELECTION															PHASE III: QUANTIFY & REPORT		
2021									2022								
APR	MAY	JUN	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP
Online Survey Data Collection			Programmatic GHG Index Reports					Data Verification			Post-scoping GHG Index Reports				Phase III		
Initial 120-150% project lists & initial business case development			Field-scoping 120-150% projects					Review Funding from Federal Infrastructure Bill			Final business cases due, final leveraging/bundling, & 100% project list development				Draft STIP development		

Questions?

