Medium-and Heavy-Duty Zero Emission Vehicle Blueprint

Project Overview

Transportation is the leading cause of greenhouse gas (GHG) emissions and air pollution in the San Diego region. To mitigate these negative effects, the state of California is requiring the transition to zero emission vehicles (ZEV). Currently, no county-wide plan exists to enable the transition to ZEV for the freight and transit sectors. SANDAG and the Port of San Diego were awarded a $200,000 California Energy Commission grant to develop a regional Blueprint to guide the transition of medium- and heavy-duty (MD-HD) freight and transit vehicles to ZEV. The Blueprint will address equity considerations and identify the near- and long-term strategies and actions needed to accelerate the adoption of zero emission trucks and buses. SANDAG and the Port of San Diego have partnered with the Environmental Health Coalition to support environmental justice goals through this work related to MD-HD ZEV.

Key Goals

- Develop a Blueprint to guide the transition of goods movement and transit fleets to ZEV
- Develop an understanding of the existing and potential MD-HD ZEV landscape in the region
- Establish qualitative and quantitative MD-HD ZEV goals and objectives
- Identify near- and long-term pilot projects, programs, and policy actions to address equity, barriers, and accelerate the transition to MD-HD ZEV

Key Planning Objectives

- Analyze existing and planned MD-HD ZEV fleets and routes
- Engage diverse stakeholders and communities throughout the region
- Explore available and emerging innovative technologies
- Develop siting criteria to identify locations where charging can be installed to maximize MD-HD ZEV adoption
- Enable workforce development for MD-HD ZEV and infrastructure
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Anticipated Benefits

- Reduce greenhouse gas emissions from transportation region-wide
- Reduce air pollution and improve quality of life in historically underserved communities, including freight and transit adjacent communities
- Accelerate MD-HD ZEV adoption
- Inform regional investments
- Identify best practices for MD-HD ZEV adoption

Related Efforts

- Accelerate to Zero Emissions Collaboration
- SANDAG Sustainable Freight Strategy Implementation Plan
- Port of San Diego Maritime Clean Air Strategy and Truck Transition Plan
- Community Air Protection Program Assembly Bill 617
- Assembly Bill 617 Portside Environmental Justice Neighborhoods
- Assembly Bill 617 International Border Community
- California Transportation Commission Senate Bill 671
- Metropolitan Transit System (MTS) and North County Transit District (NCTD) Zero Emission Bus Plans

For more information

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