

San Diego Regional Medium- and Heavy-Duty Zero Emission Vehicle Blueprint



Project Overview

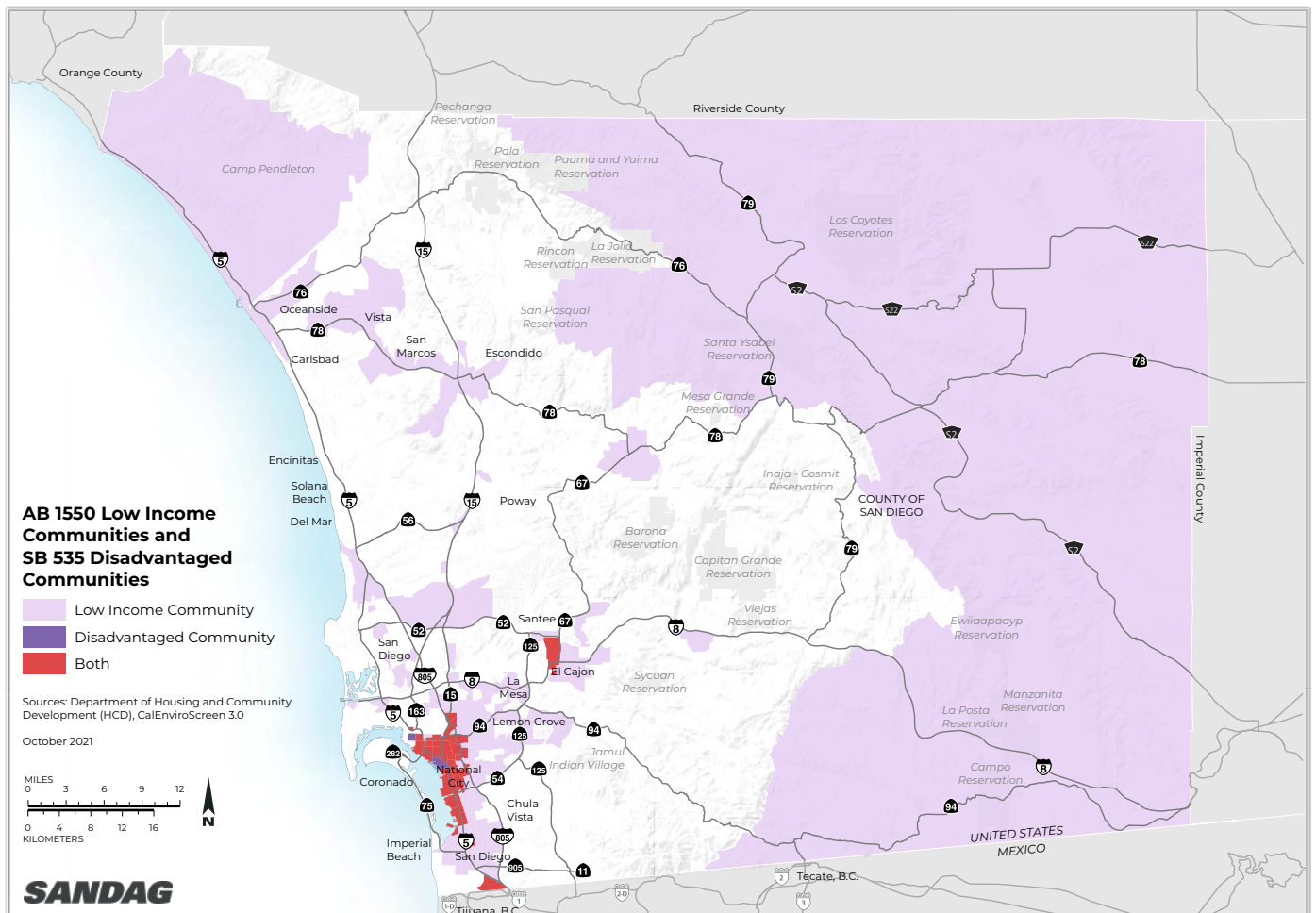
SANDAG and the Port of San Diego were awarded a California Energy Commission grant to develop the San Diego Regional Medium- and Heavy-Duty Blueprint (Blueprint). This Blueprint serves as a regional guide for the transition of medium- and heavy-duty (MD-HD) freight and transit vehicles to zero emission vehicles (ZEVs). The Blueprint provides the region with an understanding of the existing and future MD-HD ZEV landscape, a set of recommended siting criteria for infrastructure development, and near- and long-term strategies for SANDAG and its regional partners to consider and implement to accelerate the adoption of ZEV trucks and buses. SANDAG and the Port partnered with the Environmental Health Coalition to support local environmental justice goals and seek input from impacted communities. The strategies outlined in the Blueprint are designed to promote continued collaboration and position the region at the forefront of sustainable transportation, setting a standard for ZEV adoption and infrastructure development that can serve as a model for others to follow.

Key Deliverables

- [San Diego Regional MD-HD ZEV Blueprint](#)
- A [MD-HD ZEV Needs Assessment](#) that includes extensive research on the state of the industry and regional analysis
- A [MD-HD ZEV Technology and Siting Criteria](#) that provides key criteria for siting charging and fueling infrastructure
- [Near- and Long-Term Implementation Strategies](#) that identify approaches to best address current gaps and barriers to adoption

Key Regional Benefits

- Reduce GHG emissions from transportation
- Reduce air pollution in communities of concern
- Accelerate ZEV adoption
- Inform regional plan investments for MD-HD ZEV
- Identification of best practices



Moving Forward

Strategy	Recommended Actions
Regional Policy and Funding Support	<ul style="list-style-type: none"> · Collaborate with state agencies and utilities to increase accessibility to funding and credits · Advocate for consistent ZE policies across state and national border · Develop targeted incentive programs to reduce cost of vehicles and equipment · Prioritize incentive programs for disadvantaged communities and small businesses · Promote safety protocols for battery electric vehicles and fuel cell electric vehicles (hydrogen), along with clean hydrogen production
Siting, Land Use, Zoning and Permitting	<ul style="list-style-type: none"> · Leverage existing resources for public infrastructure planning · Identify grid and hydrogen availability to enhance grid capacity · Streamline infrastructure development · Leverage available permitting tools
Promote Public-Private-Partnership Models	<ul style="list-style-type: none"> · Leverage public-private-partnership (P3) models · Streamline public procurement processes and revenue sharing
Public Education and Community Outreach	<ul style="list-style-type: none"> · Showcase proof of concept · Raise awareness of regulations and incentives · Facilitate bidirectional communications
Workforce Development	<ul style="list-style-type: none"> · Integrate MD-HD ZEV deployment goals into future planning efforts · Collaborate with jurisdictions to monitor impact of MD-HD ZEVs on local air quality · Convert public fleets to zero emission

Related MD-HD State Regulation

California has established ambitious climate, air quality, and public health goals and has recently set zero emission goals for medium- and heavy-duty (MD-HD) vehicles including truck and bus fleets to . Governor Newsom’s Executive Order N-79-20 creates state goals for 100% of passenger cars and truck sales to be zero-emission vehicles (ZEVs) by 2035, 100% of drayage trucks in the state to be zero-emission by 2035, and for all MD-HD vehicles in the state be zero-emission by 2045 for all operations where feasible. The California Air Resources Board has published several regulations intended to help reach these MD-HD ZEV goals:

- [Advanced Clean Trucks](#)
- [Innovative Clean Transit](#)
- [Advanced Clean Fleets](#)

Related Efforts

[Sustainable Freight Strategy Implementation Plan - SANDAG](#)
[Port MCAS](#)

[San Diego Port Truck Transition Plan](#)
[CERP AB 617](#)
[Portside communities](#)

[Border communities](#)
[CTC SB 671](#)
[MTS and NCTD Innovative Clean Transit Plans](#)

Project Team



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