



## PARTNERSHIP PROPOSAL

# Clean Freight Corridors & NATSO

*Promoting Alternative Fueling and Idle Reduction at Truck Stops*

### **GOAL:**

Pilot a public-private partnership (P3) to demonstrate the benefits of siting alternative fuel facilities (CNG, LNG, propane, hydrogen, and electric) for use by freight vehicles at strategically located truck stops along priority Interstate corridors with the overall goal of reducing vehicle emissions, providing essential goods movement infrastructure, and promoting energy security.

### **ANTICIPATED OUTCOME:**

Provide the fueling and layover infrastructure leading fleets in the region need to purchase and operate the alternative fuel trucks they want, and provide idle-free comfort for drivers during layovers and breaks.

DRAFT

September 2017



## PARTNERSHIP OBJECTIVES

1. Apply for state and federal funding to pilot and demonstrate publicly-accessible alternative fuel infrastructure at truck stops.
2. Conduct outreach to key stakeholders and potential facility users to identify partners to participate in pilot demonstration(s).
3. Assess the business case/model for enhancing “traditional” truck stops with alternative fuel options, and help educate the private sector on the costs and benefits of investing in multi-fuel infrastructure projects.
4. Evaluate the air quality, energy, and other non-monetary benefits of providing alternative fueling and idle-free layover accommodations at truck stops.

continued



## PARTNERSHIP OBJECTIVES

5. Promote collaboration with environmental, energy and planning agencies on efforts to site and expand alternative fuel and idle-free truck stops.
6. Share results of pilot demonstration(s) via a national forum to promote replication of this approach, as appropriate, on Interstate corridors throughout the country.
7. Assist FHWA, Regional Clean Diesel Collaboratives, and allied stakeholders in developing a strategy to fill critical infrastructure gaps along Interstate corridors identified through FHWA's Alternative Fuels Corridor Program.



## PROJECT ADVISORY GROUP

**Project Partners:** U.S. DOT Offices of Environment and Freight, NATSO, CALSTART, and representatives of Regional Clean Diesel Collaboratives.

**Public Sector Stakeholders/Participants:** State and local environmental, energy and transportation agencies, MPOs/RPCs, DOE's Energy Efficiency & Renewable Energy program (and their location-appropriate Clean Cities Coalitions), Transportation Climate Initiative, Ozone Transport Commission, I-95 Corridor Coalition (and/or other location-appropriate transportation coalitions).

**Private Sector Stakeholders/Participants:** Alternative fueling systems providers, truck stop owner(s), state trucking association(s), SmartWay shipper and carrier partners (and other truck fleets), vehicle & onboard equipment manufacturers as appropriate to the fuels/technologies selected, university supply chain/transportation programs (as needed to assist with evaluation).

## POTENTIAL FUNDING SOURCES

U.S. DOT Congestion, Mitigation and Air Quality (CMAQ); Volkswagen (VW) Environmental Trust; Diesel Emissions Reduction Act (DERA); and U.S. DOT Infrastructure for Rebuilding America (INFRA) Grant.

## PROJECT DELIVERABLES

- ★ Executed P3 agreement.
- ★ Analysis of potential truck stop pilot locations along select corridors, and appropriate types of fuels and layover technologies.
- ★ Outreach with partners to stakeholders and broader audience, before and after the pilot project.
- ★ Installation of one or more alternative fuel facilities at selected truck stops(s).
- ★ Case study documenting “lessons learned” and potential strategy for replication/expansion.