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Zero Emission Vehicle Market Trends

Ports and Off-Road Equipment

May 20, 2020

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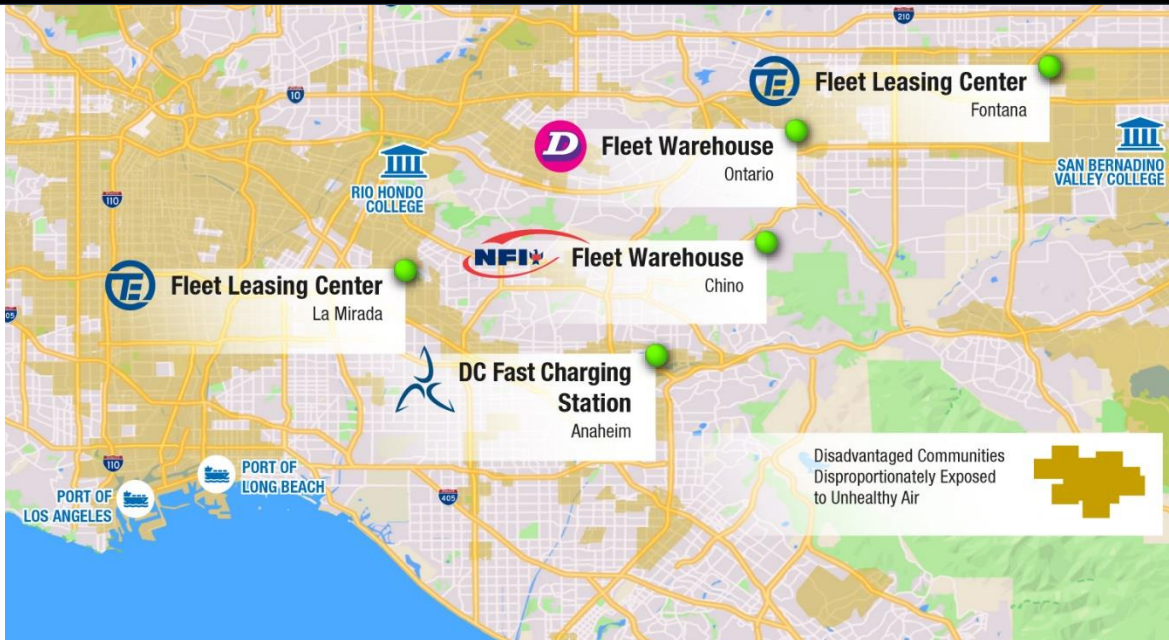


Demonstrating innovations critical to the commercial success of battery electric trucks and equipment for goods movement

LIGHTSproject.com



PROJECT PARTNERS



23 Battery Electric Heavy-Duty Trucks



29 Battery Electric Equipment



58 Public & Private Chargers



2 Colleges Designing Electric Truck Maintenance Programs



1.8 Solar Energy Generation
Million KWH



2 Ports Providing Infrastructure Planning

■ News

SOUTH COAST AQMD AWARDS VOLVO CONSTRUCTION EQUIPMENT \$2M TO TEST ELECTRIC HEAVY EQUIPMENT IN CALIFORNIA

4/22/2020

By Press Information

Volvo Construction Equipment (Volvo CE) was awarded a \$2 million grant for a commercial pilot of the company's electric, zero-emissions excavator and electric wheel loader in California. The grant, administered by the South Coast Air Quality Management District (South Coast AQMD), is funded by the U.S. Environmental Protection Agency's (EPA) Targeted Air Shed Grant Program which helps agencies develop plans and conduct projects to reduce air pollution in areas with the highest level of smog and soot in the United States. South Coast AQMD is responsible for attaining state and federal standards by improving air quality in the South Coast Air Basin of California.



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Mack Trucks Unveils Fully Electric Mack® LR Refuse Demonstration Model

05-06-2019

LAS VEGAS (May 7, 2019) – Mack Trucks unveiled today its highly anticipated Mack® LR battery electric vehicle (BEV) at WasteExpo 2019. Combining the refuse industry-leading design of the Mack LR model with a fully electric Mack drivetrain, the demonstration model will begin real-world testing in 2020 in the **demanding operations of the New York City Department of Sanitation** (DSNY).

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ZEV Market Concerns in California

- The transition to ZEV vehicles is a paradigm shift – forcing greater interdependence among fleets, utilities, truck manufacturers, and policymakers.
- The single largest obstacle to success of the heavy-duty ZEV market is charging infrastructure.
- Infrastructure availability, timing and cost challenges are all worsened by the COVID-19 pandemic.
- Successful heavy-duty ZEV product adoption requires a coordinated, single point source of public financial support for fleets to take purchase risk.