

Motion by Directors DuBois and Knabe

Cap and Trade Demonstration Project Grant application

Regular Board Meeting – April 30, 2015

The California Air Resource Board (ARB) is expected to release a request for grant application for \$200 million in Cap and Trade funding for low-carbon transportation in April.

MTA staff, Calstart, the South Coast Air Quality Management District and the Gateway Cities Council of Governments have discussed the potential for creating a demonstration project whereby up to twelve near-zero emission (NZE) hybrid trucks would be equipped with technology to utilize a “zero-emissions fence zone” in a designated area adjacent to the San Pedro Bay Ports and convert to CNG or other low-emission fuel beyond the zero-emission zone. The trucks would also be equipped with connected-vehicle technology to allow more fuel-efficient operation.

The goals of the demonstration are to:

- Demonstrate the capabilities of ZE/NZE Drayage Trucks in day-to-day operation
- Support demonstrable air quality improvement in disadvantaged communities as defined by CalEPA
- Learn about infrastructure needs and refueling requirements for ZE/NZE trucks
- Demonstrate ITS technologies that can improve efficiency and truck safety, while further reducing emissions
- Lay the groundwork for economic growth in the region via a green goods movement area.

To accomplish these goals, the project will:

- Propose a demonstration project consisting of up to 12 ZE/NZE hybrid drayage trucks, for approximately \$12 Million in grant funding.
- Equip these trucks with advanced ITS systems, such as the Connected Vehicle Technology that are in the Freight Advanced Traveler Information Systems (FRATIS) program.
- Establish a geo-fence to create a “Zero-Emission Zone” whereby anywhere within that perimeter, a hybrid truck will operate in ZE mode. This enables disadvantaged communities to experience ZE truck benefits from NZE trucks.

We, therefore, move that

- A. Staff work collaboratively with the South Coast AQMD, the Gateway Cities and South Bay Councils of Governments to structure a competitive application in support of the ZE Drayage Demonstration and;
- B. Instruct staff to explore generating a 25% match through Department of Transportation, Department of Energy, in-kind funds from project participants, Regional and Local funds.