

May 26, 2015

Zero Emission Truck and Bus Section  
Heavy Duty Implementation Branch  
Mobile Source Control Division  
Air Resources Control Board  
1001 I St.  
Sacramento, CA 95814

Dear Zero Emission Truck and Bus Section,

We appreciate the opportunity to provide comments on the Heavy-Duty Technology and Fuels Assessment Overview. We strongly support the initiatives of the California Air Resources Board to meet California's long-term air quality goals and help facilitate the transition to zero-emission technologies in the heavy-duty sector.

Proterra is the leading U.S. manufacturer of zero-emission commercial transit solutions and makes the world's first all-electric, fast-charge public transit bus. These buses are currently in service in California at Foothill Transit and Stockton RTD, as well as many locations throughout the country. Proterra buses charge along their routes in less than 5 minutes with an automated roof top charger and then continue on their routes all day long, offering functionally unlimited range. In addition, Proterra now offers range-extension on the fast-charge public transit bus to address the needs of transit operators for longer routes. Proterra's CATALYST bus achieves 21+ miles per gallon equivalent performance, 500%+ better than diesel and CNG buses. Proterra's advanced technology reduces carbon emissions by 70% or more compared to CNG or diesel buses. Zero-emission transit buses provide the opportunity for all Californians to ride an electric vehicle and realize the health and other associated benefits.

We appreciate the inclusion of Proterra's technology in the Heavy-Duty Technology and Fuels Assessment Overview. To ensure that the most current and accurate information is available for the Heavy-Duty Technology and Fuels Assessment Overview, we respectfully request the California Air Resources Board update this section to the following:

*The new Proterra CATALYST™ bus, made from advanced composite materials, is the lightest and most efficient 40' transit vehicle on the market. Proterra offers multiple energy storage and charging options to meet the needs of all transit routes. Its Fast Charge buses have a battery pack capacity of up to 130 kWh and recharge in less than 10 minutes through use of conductive rooftop charging and feature a nominal range of up to 50 miles between charge events. Proterra's newly-introduced Extended Range Catalyst™ vehicles have a battery pack capacity of up to 321kWh and offer a nominal range of up to 180 miles per charge, which allows for both range-extension and fast-charge during service. The Catalyst™ is capable of switching back and forth between XR and FC batteries to adjust the range of the vehicle as needed. Collectively, these buses offer the longest range per kWh of available energy storage.*

In addition, please include this photo of the Proterra bus, as it is the new CATALYST™ bus that has been deployed throughout the United States. This is a photo of the bus and the overhead charger for the Fast Charge CATALYST™ bus.



We thank you for the opportunity to comment on the Heavy-Duty Technology and Fuels Assessment Overview and appreciate the efforts of the California Air Resources Board to reduce the mobile source criteria pollutants, toxics, and greenhouse gas emissions in order to help improve air quality in communities throughout California.

Sincerely,

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