

**DOCKETED**

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<b>Project Title:</b>	Medium- and Heavy-Duty Zero-Emission Vehicles and Infrastructure
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*Comment Received From: Rakesh Koneru*  
*Submitted On: 6/11/2020*  
*Docket Number: 19-TRAN-02*

## **HummingbirdEV Comments on BESTFIT Draft Solicitation**

See attached letter.

*Additional submitted attachment is included below.*



June 11, 2020

California Energy Commission  
Docket 19-TRAN-02  
1516 Ninth Street  
Sacramento, CA 95814

Re: BESTFIT Innovative Charging Solutions Draft Solicitation Concept

Dear California Energy Commissioners and Staff,

Thank you for the opportunity to provide comments on the BESTFIT Innovative Charging Solutions Draft Solicitation Concept.

HummingbirdEV, headquartered in Livermore, California, is an experienced engineering and manufacturing electric vehicle powertrain provider. We specialize in medium- and heavy-duty electric powertrains and provide innovative well-to-wheel solutions, with a unique onboard fast-charging EVSE, vehicle-to-vehicle (V2V) and vehicle-to-grid (V2G) technologies for on- and off-road zero-emission heavy-duty vehicles. The HummingbirdEV team has a proven track record in the development and scaled deployment of battery-electric trucks and other zero-emission vehicles, which have collectively accumulated more than 8 million zero-emission miles throughout California and beyond.

HummingbirdEV appreciates the Energy Commission's efforts to support novel technologies or business models that highlight innovative charging solutions and form factors that are the "best fit" for the local built environment, use case, and vehicle type. Within the solicitation concept, HummingbirdEV's comments include:

Within the eligible project category, HummingbirdEV supports including vehicle-to-vehicle (V2V) charging as an area of focus and eligible activity. HummingbirdEV has developed a cost-efficient and streamlined V2V charging system built-in to the vehicle itself, which eliminates the added cost and weight of external energy storage, power converters or other electronics. The V2V system is built-in to the vehicle's the powertrain and battery packs and provides up to 200KW of continuous traction power and 100KW of continuous charging power. This provides premium bi-directional, fast charging as a standard option for the end-user, which is particularly helpful in medium- and heavy-duty applications, as well as for roadside service vehicles, such as AAA and utilities.



Therefore, within eligible costs, we respectfully request the inclusion and eligibility of powertrains and battery packs, as these are the “energy storage” systems needed for V2V charging.

Thank you for the opportunity to provide comments on the BESTFIT Innovative Charging Solutions Draft Solicitation Concept. HummingbirdEV looks forward to continuing to work with the Energy Commission to support innovative and novel charging technologies.

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Koneru", is placed above the printed name.

Rakesh Koneru  
COO, HummingbirdEV