

## DOCKETED

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*Comment Received From: Rick Brown, PhD*

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## **Smart Charging Platform**

I am submitting these comments on behalf of both TerraVerde Energy and the EV Alliance, a nonprofit public/private partnership founded in 2009 whose mission is to accelerate the mass adoption of Electric Vehicles.

The cost-efficient deployment of electric school buses is vitally dependent on deployment and integration of smart charging platforms and distributed renewable resources (especially energy storage and solar) that can reduce demand charges, grid stress, and carbon impact. Substantial knowledge about grid needs and EV infrastructure is required to optimize solutions in specific local contexts. To ensure that EV infrastructure and renewable assets are deployed cost efficiently and in tandem, we believe that school districts should be able to include in their application materials, integrated solutions that include implementation of smart charging technologies and DERs as appropriate to limit demand charges, enable full V2G where feasible and efficient, and reduce carbon impacts. Also, priority should be given to Districts that include applications that draw from outside the school-bus-specific funding bucket to pay for the electrical capacity upgrades, smart charging, and DERs necessary to reduce total cost of ownership of the buses, and minimize emissions related to grid-mix electricity. If CEC provides a simple "one size fits all" reimbursement for chargers, then important opportunities for co-location of DERs and leveraging the full value of managed charging and Vehicle-to-Grid functionality will be lost.