

DOCKETED

| | |
|-------------------------|--|
| Docket Number: | 16-ALT-02 |
| Project Title: | 2017-2018 Investment Plan Update for the Alternative and Renewable Fuel and Vehicle Technology Program |
| TN #: | 214204 |
| Document Title: | Tim Dummer Comments: Wrightspeed - Outline Proposal for 2017/2018 Budget Year Funding |
| Description: | N/A |
| Filer: | System |
| Organization: | Tim Dummer |
| Submitter Role: | Public |
| Submission Date: | 10/26/2016 4:50:23 PM |
| Docketed Date: | 10/26/2016 |

Comment Received From: Tim Dummer

Submitted On: 10/26/2016

Docket Number: 16-ALT-02

Wrightspeed - Outline Proposal for 2017/2018 Budget Year Funding

Heavy Duty Range-Extended Electric Vehicle (REV) Powertrains - Manufacturing Investment & Vehicle Fleets

Additional submitted attachment is included below.

California Energy Commission (CEC)

Demo Fleet Funding Proposal

For 2017/2018 Budget Year

Wrightspeed

Heavy Duty Range-Extended Electric Vehicle Powertrains

Background:

Wrightspeed is a World Economic Forum Technology Pioneer award winner and a leading manufacturer of Range-extended Electric Vehicle (REV) powertrain systems for heavy duty urban cycle applications (refuse trucks, city buses, package delivery trucks etc) - designed to deliver economic, environmental and performance benefits in both OEM-installed new vehicles and existing fleet retrofits including:

- Up to 60% reduction in fuel consumption
- Up to 60% reduction in maintenance costs
- Up to 60% reduction in emissions

Each new vehicle platform requires re-packaging of Wrightspeed REV powertrain systems to customize the installation and optimize the performance for that vehicle model.

Wrightspeed thanks the California Energy Commission (CEC) for their support of the development and commercialization of core Wrightspeed REV powertrain technology over the last 5 years. To date Wrightspeed has been awarded \$7 M in CEC grants.

Outline Proposal for 2017/2018 Budget Year CEC Funding:

Wrightspeed is now scaling its commercial production capacity at its factory in Alameda, CA. This expansion enables:

- Development of more new vehicle platforms (adaptations of Wrightspeed REV powertrains)
- Fleet demos (in addition to single vehicle demos) of the performance, economic & environmental benefits of Wrightspeed REV powertrains

Potential CEC Funded Programs Include:

- Port drayage equipment (Los Angeles, Oakland, San Diego etc)
- City bus fleets (Sacramento, San Francisco, Oakland, Los Angeles, San Diego etc)
- Urban refuse collection fleets (Sacramento, San Francisco, Oakland, Los Angeles, San Diego etc)

2017/2018 Budget Year CEC Funding Request = Total \$23 M:

- For Vehicle Fleets & Demos = \$18 M
 - \$5.0 M for each demo fleet (re-packaging NRE + powertrain kits for up to 20 vehicles)
 - \$1.0 M for each demo vehicle (re-packaging NRE + a powertrain kit for 1 vehicle)
- For Manufacturing Investment = \$ 5M

These investments will accelerate the widespread deployment of Wrightspeed REV powertrain-enabled fleets – resulting in significant economic and environmental benefits in California. In addition it will accelerate both direct & indirect job creation in California and continue to strengthen the State’s position as the technology leader and supplier for this major new global industry.