

DOCKETED

Docket Number:	22-BUSMTG-01
Project Title:	Business Meeting Agendas, Transcripts, Minutes, and Public Comments
TN #:	244356
Document Title:	Business Meeting Presentation (Aug 10, Item 11)
Description:	Vehicle-to-Building for Resilient Backup Power projects
Filer:	Ben Wender
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/8/2022 8:19:10 AM
Docketed Date:	8/8/2022



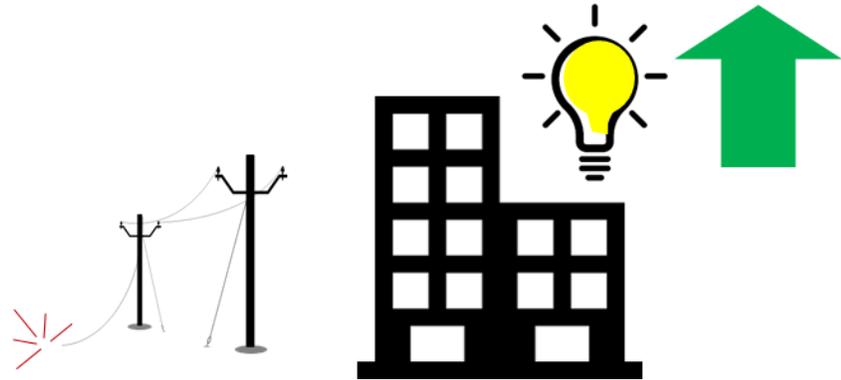
Item 11: Vehicle-to-Building Technologies for Resilient Backup Power (GFO-21-303)

August 10, 2022 Business Meeting

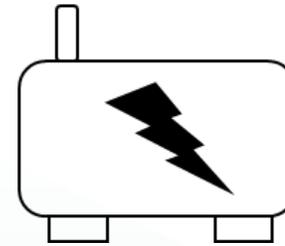
Ben Wender
Energy Research and Development Division
Energy Systems Research Branch



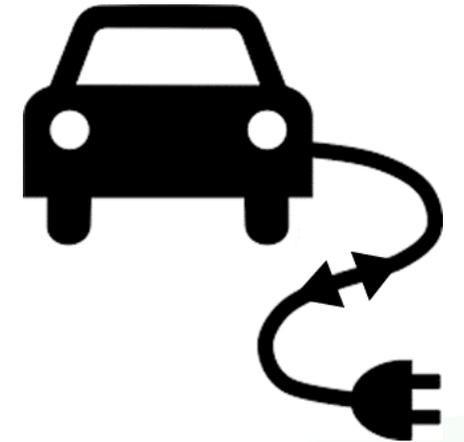
Benefits to Californians



Enhance customer resilience



Reduce harmful emissions

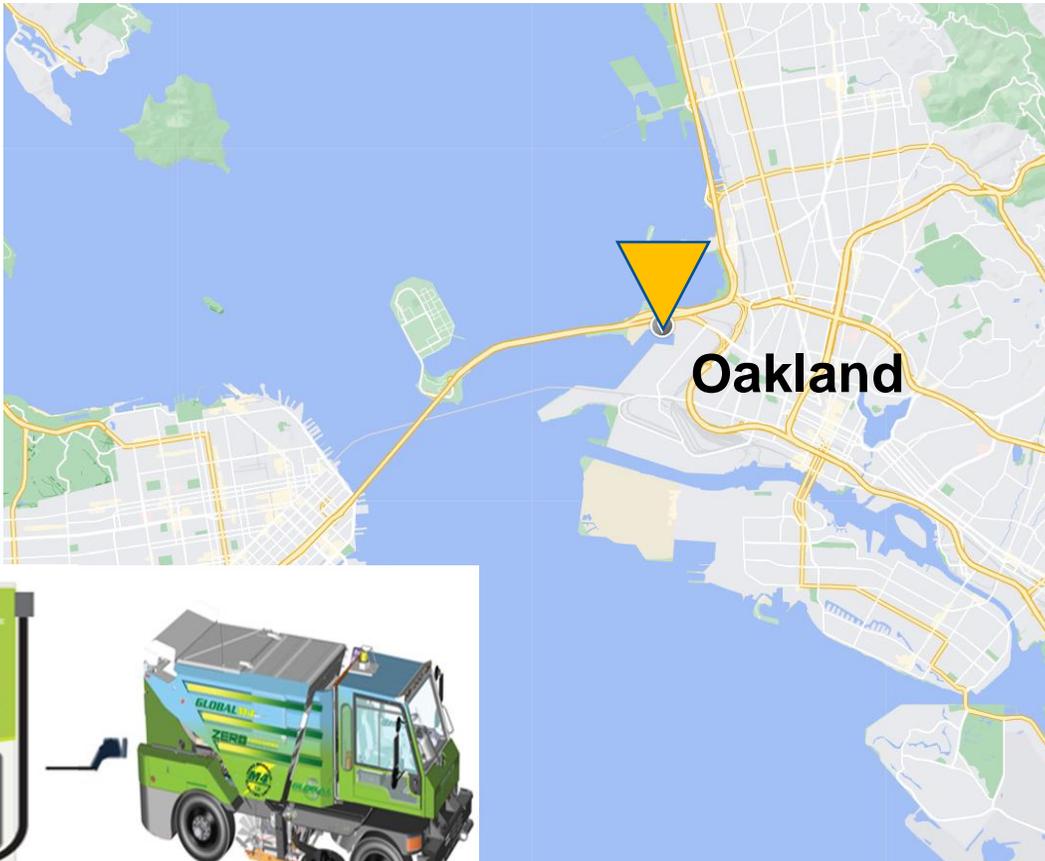


Increase benefits of EVs



11a. The Regents of the University of California, on behalf of Davis Campus

Heavy-Duty Vehicle Electrification and its Potential as a Clean Energy Alternative for Critical Operations



- Implement product enhancements
- Quantify potential battery degradation
- Develop life extending strategies





11b. Gridtractor, A California Corporation

Electric Farm Vehicles as Reliable Grid Assets

- Mobile on-farm microgrid
- Bidirectional electric tractors
- Backup power for irrigation



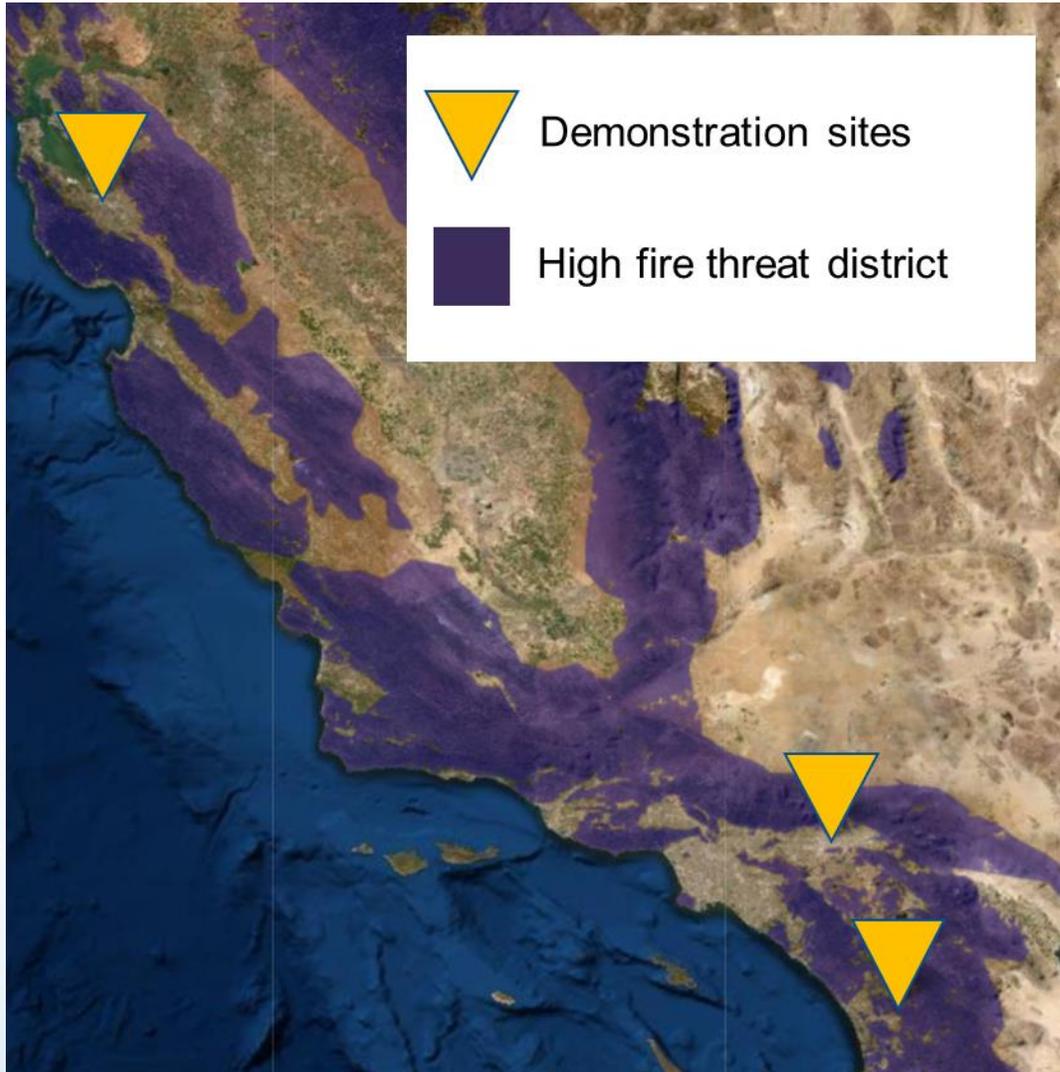
≈ 100,000 tractors in CA



≈ 3 GW charging/discharging load



11c. Gridscape Solutions, Inc.



Scalable, Resilient V2B Multi-Vehicle DC Platform Demonstration at Public Buildings in California

- Rotate multiple vehicles for long-duration backup
- Demonstrated in a disadvantaged, a low income, and a tribal community
- Business case evaluation



Staff Recommendation

- Approve grant agreements
- Adopt staff's determination that projects are exempt from CEQA

