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Item 6: Realizing California's Electric Vehicles As Grid Assets

October 12, 2022 Business Meeting

Jeffrey Lu, Air Pollution Specialist Fuels and Transportation Division



Vehicle-Grid Integration Benefits to Californians









Grid decarbonization

- Integrate renewables
- Load flexibility



- Grid export (V2G)
- Emergency response

Resilience and backup power

- Backup power (V2H)
- Microgrids

Customer savings

- Bill savings
- Other compensation

This slide includes visuals from Flaticon.com

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VGI Vision



Diverse options for customer compensation and value



Easy-to-use, interoperable products and services



VGI options with any charger, any vehicle, even if the customer chooses not to participate



Widespread, grid-aware charging load flexibility



Agency-wide Actions Will Support VGI

Planning and Analysis

- Analyze and quantify VGI potential
- EV load and grid modeling (Assembly Bill 2127, Integrated Energy Policy Report)

Technology and Funding Deployment

- Accelerate availability of VGI products
- Funding to electrically prepare sites for charging and VGI

Regulation Implementation

- Load Management Standards
- Internet accessible database of current electricity rates

Standards Analysis and Support

- Connector and communication guidance
- Support standards implementation, testing, certification
- V2G equipment list