

DOCKETED

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**California Energy Commission
Business Meeting
December 8, 2021
10:00 a.m.**



Pledge of Allegiance



**I pledge allegiance to the Flag
of the United States of America,
and to the Republic for which it stands,
one Nation under God, indivisible,
with liberty and justice for all.**

#CleanEnergyHOF

YOU'RE INVITED TO



December 10, 2021
2:00 p.m. - 3:30 p.m. PST
Join via Zoom

<http://bit.ly/CleanEnergyHOF>



CONGRATULATIONS

2021 CLEAN ENERGY HALL OF FAME AWARDEES!



Dr. Peter A. Lehman

Lifetime Achievement Award
Founding Director,
Schatz Energy Research Center



Abigail Solis

Clean Energy Champion
Manager of Sustainable
Energy Solutions,
Self-Help Enterprises



Eddie Ahn

Clean Energy Champion
Executive Director,
Brightline Defense



Youth for Environmental Justice

Youth Game-Changer Award
Communities for a Better
Environment's Youth for
Environmental Justice



Nicole Capretz

Clean Energy Champion
Founder and Executive Director,
Climate Action Campaign



Mutual Housing California

Clean Energy Champion
Mutual Housing California



Item 1: Consent Calendar

- a. Guidelines for California's Solar Electric Incentive Programs (Senate Bill 1), Seventh Edition. Contact: Edgar Rodriguez
- b. Prospect Silicon Valley. Contact: Kate Reid
- c. Prospect Silicon Valley. Contact: Kate Reid
- d. Schneider National Carriers, Inc. Contact: Kate Reid



Item 2: Committee Report on the Application for a Small Power Plant Exemption for the Great Oaks South Generating Facility

December 8, 2021 Business Meeting

Ralph Lee, Hearing Officer
Hearing and Policy Unit, Chief Counsel's Office



Great Oaks South Backup Generating Facility 20-SPPE-01



Application for Small Power Plant Exemption



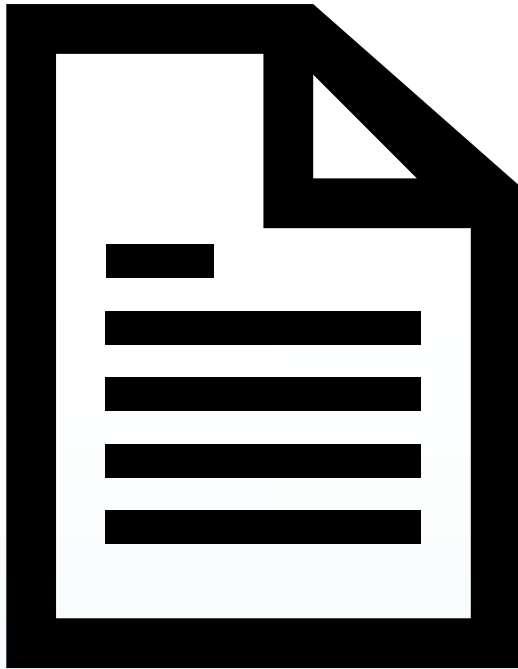
Item 3: Order Instituting a Rulemaking Proceeding for Amendments to Procedures for Delegating Geothermal Certification and for Small Power Plant Exemptions

December 8, 2021 Business Meeting

Jared Babula, Attorney IV
Office of the Chief Counsel



Benefits to Californians



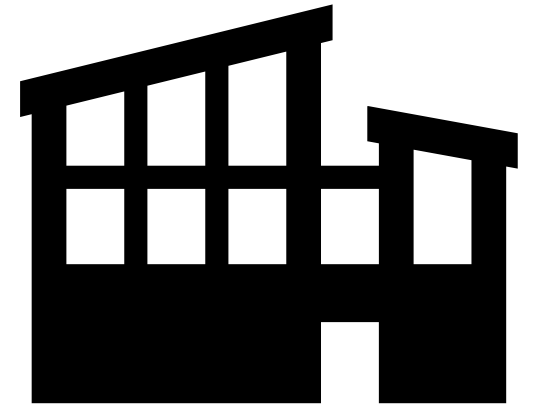
- **Align** state policy to accelerate procurement of renewable and carbon free energy
- **Modernize** text to reflect changes in California's electricity sector and related regulatory and market environments
- **Streamline** redundant and obsolete processes



Purpose of Rulemaking Proceeding

Amend 2 powerplant siting processes:

- 1) Delegation of geothermal power plant siting authority to local government (Title 20 sections 1802, 1804 and 1860-1870)
- 2) Exemption of small power plants (Title 20 sections 1934-1948)





Staff Recommendation

Approve the order granting authority to staff to take all actions reasonably necessary to:

- 1) Develop proposed regulations complying with requirements of the Administrative Procedure Act and the California Environmental Quality Act; and
- 2) Present the proposed regulations at a business meeting for final adoption.



Item 4: Touchstone Benchmarking

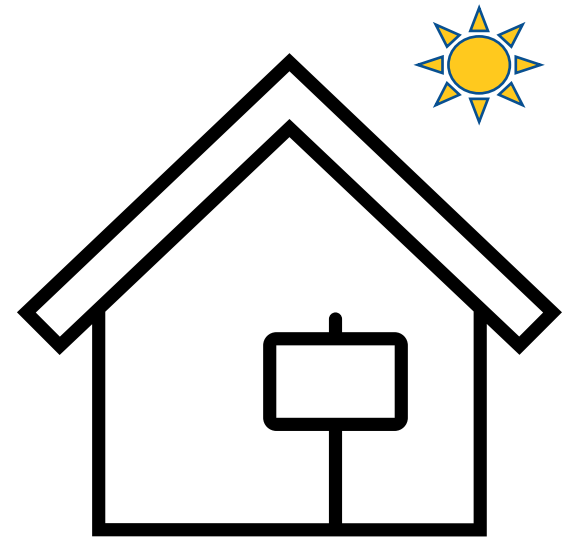
December 8, 2021 Business Meeting

Christine Collopy, Assistant Deputy Director
Efficiency Division



Benefits to Californians

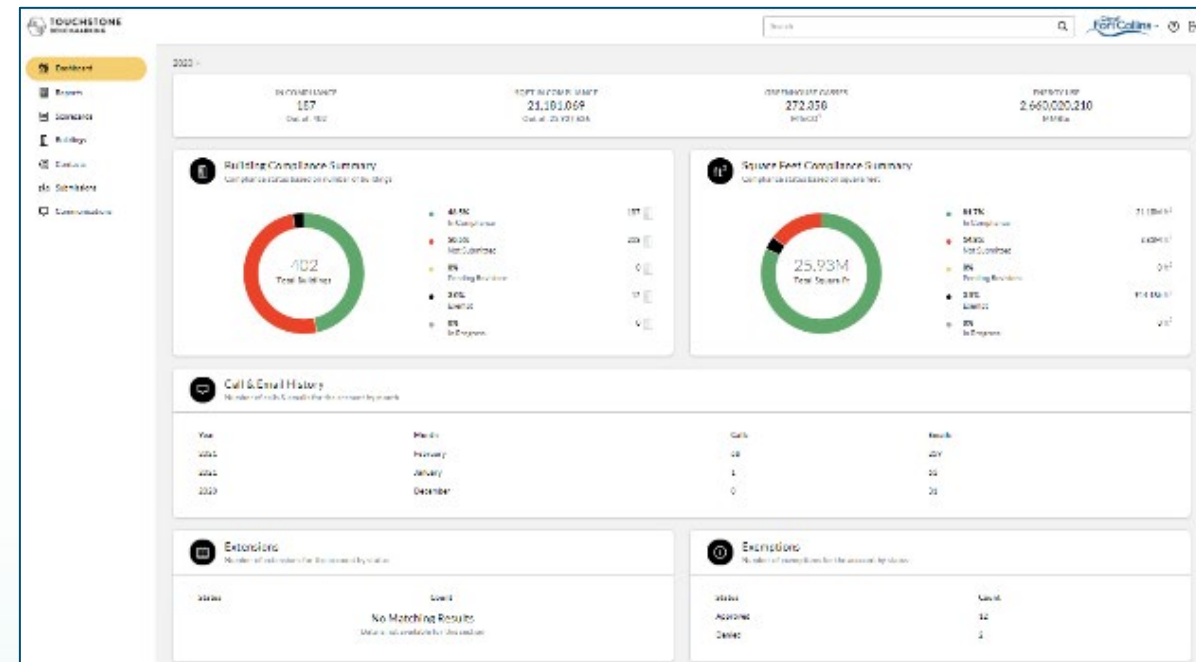
- Tracks building-specific energy performance compared to similar buildings
- Creates single, statewide buildings list
- Amplifies building owner outreach and education
- Improves data quality
- Provides real-time data downloads





Proposed Scope of Work

- CA buildings list – updated annually
- Touchstone Benchmarking™ cloud-based Software-as-a-Service (SaaS) solution
- Software system set-up, integration, configuration
- Data collection | tracking
- Dashboard for reporting
- Building owner scorecards
- CEC staff technical support



Sample Dashboard



Interactive Map

Customized web-based map

- Enhanced visuals
- Comparison capabilities

Individual building performance metrics

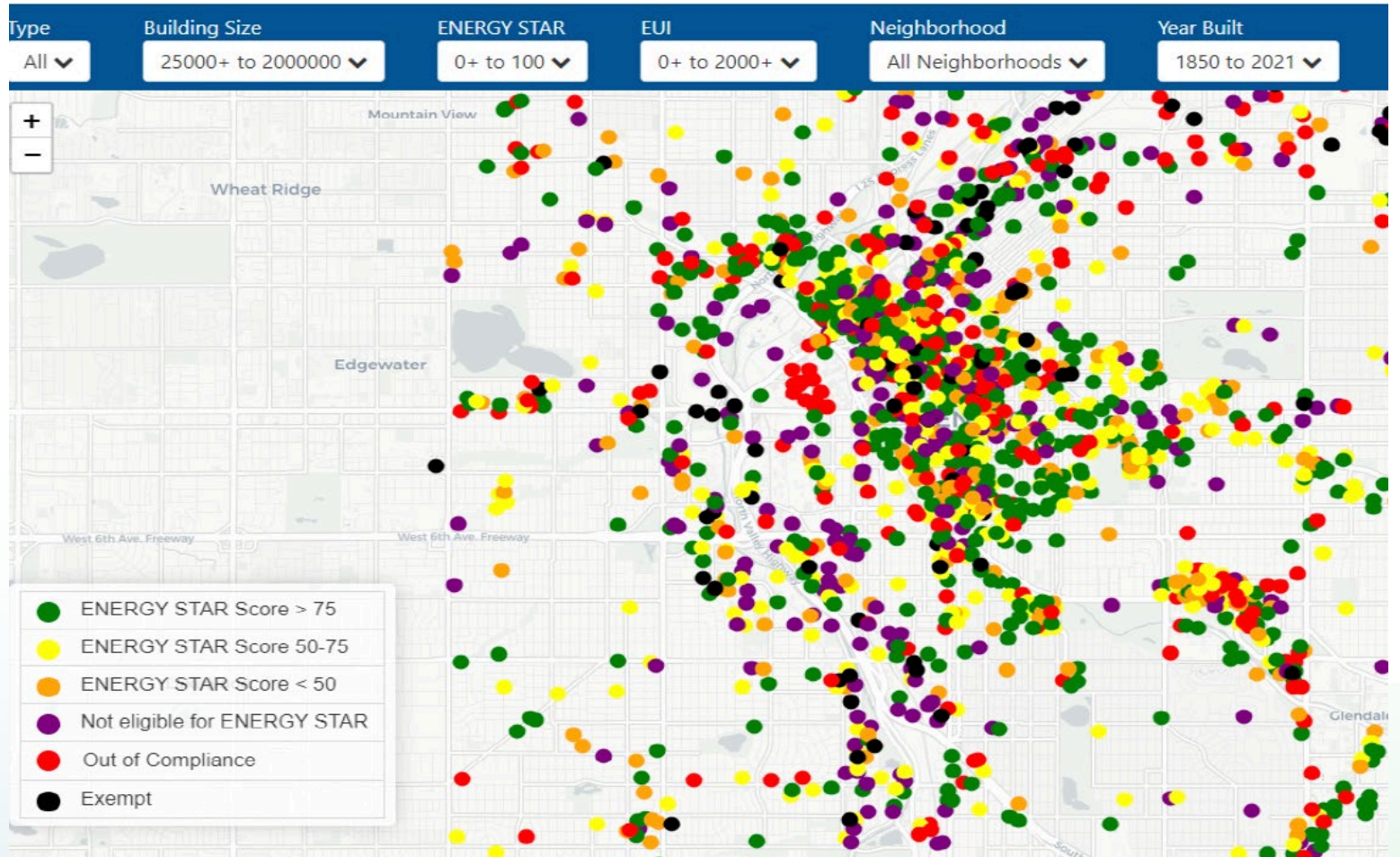
- Building compliance statistics
- ENERGY STAR score
- Energy use intensity

Compare buildings

- Size
- Type
- Location

Historical data

- Compiled annually for comparison





Timeline

Activity	Date
CEC Business Meeting	December 8, 2021
Procurement Complete	March 2022
CA Covered Buildings List Complete	June 2022
Platform Implementation Complete	June 2022



Staff Recommendation

- Approve Touchstone Benchmarking, LLC agreement



Item 5: Hydrogen Back-Up Generation Vehicle (H₂BUG)

December 8, 2021 Business Meeting

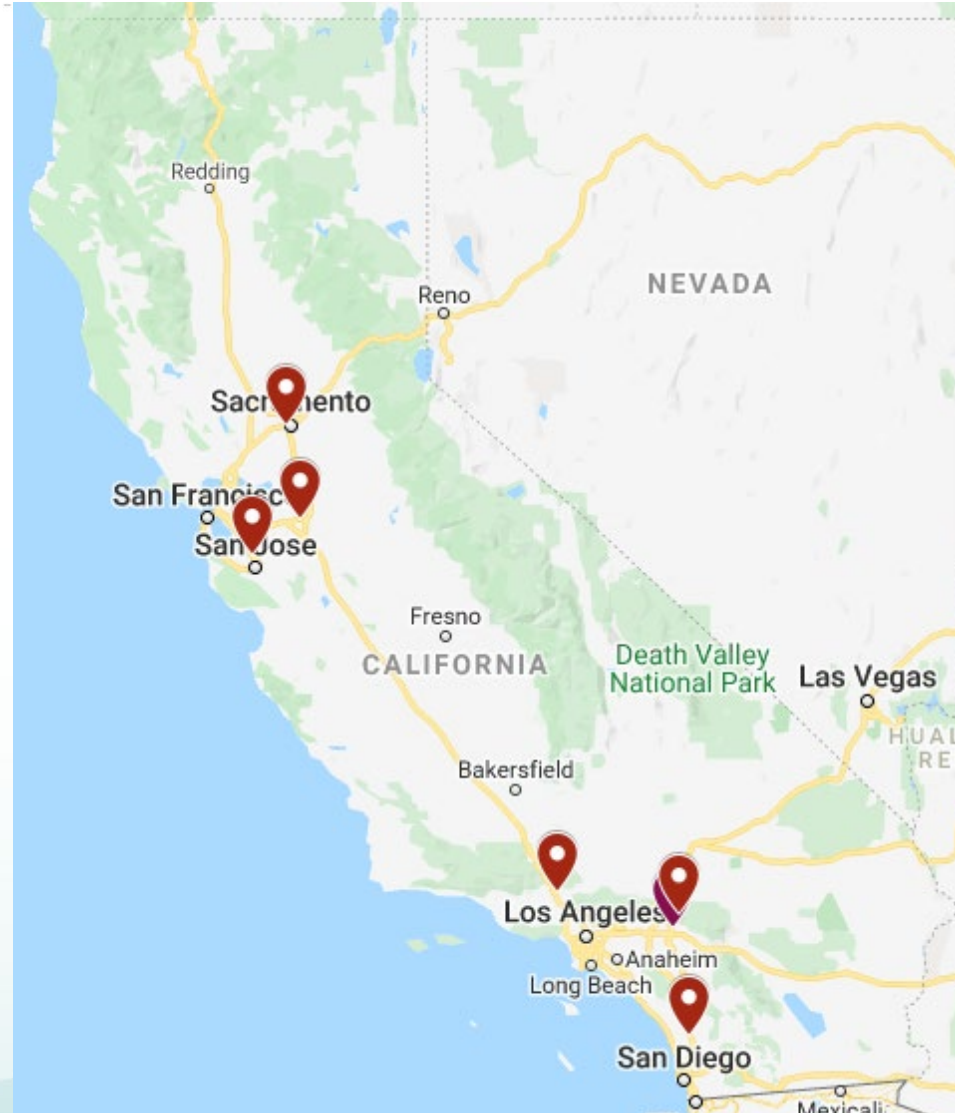
Quenby Lum, Associate Energy Specialist
Energy Research and Development Division
Energy Systems Research Office



Benefits to Californians

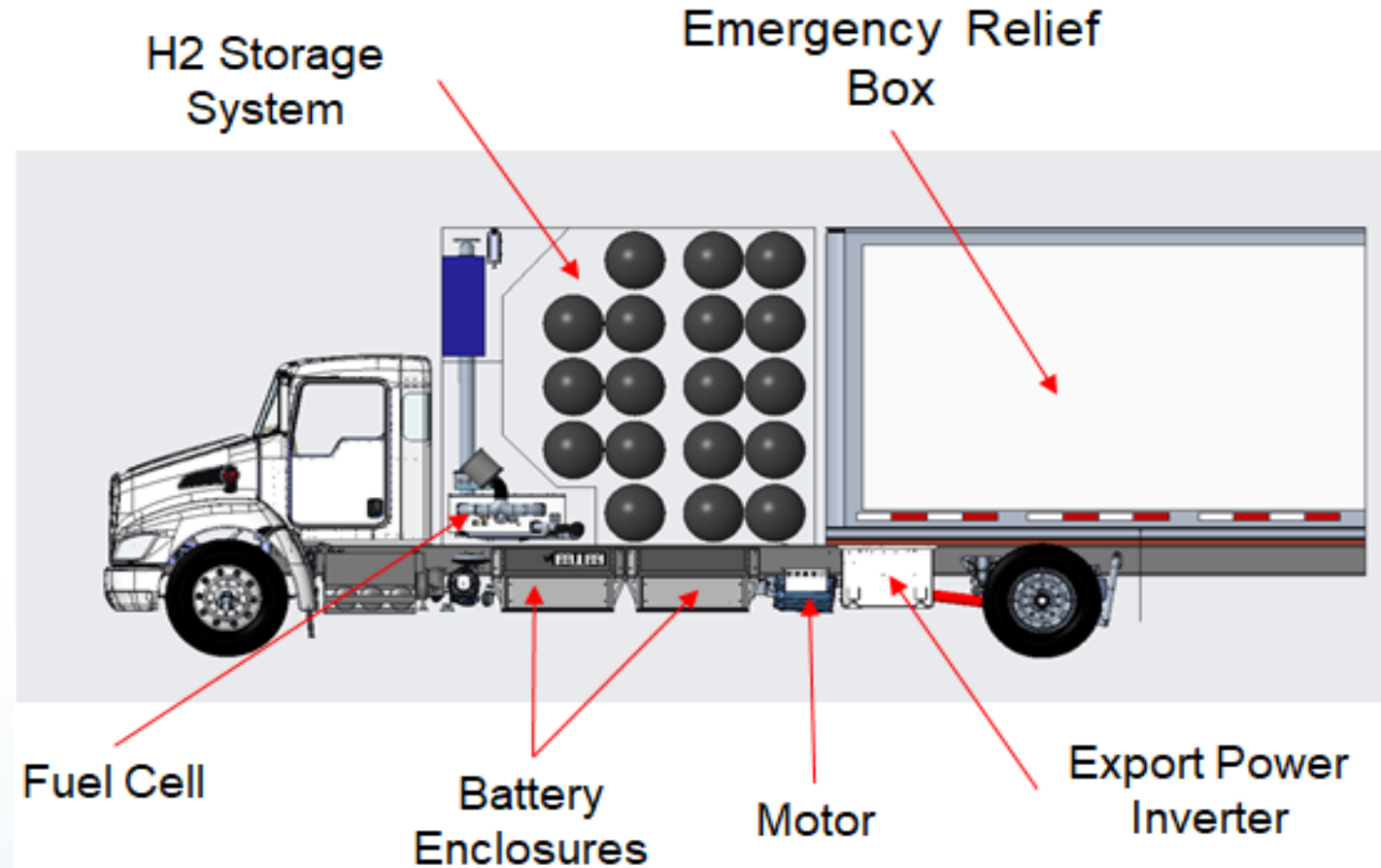
Advances:

- Reliability
- Resiliency
- Safety
- Reduced Emissions
- Equity





Project Overview



H₂BUG vehicle concept diagram





Project Overview



Federal Emergency Management Agency (FEMA) incident command vehicle



Truck supporting an evacuation center during the Valley Fire in 2015



Electrical outlets and user interface on a truck



California Market Potential



≈ 21,000 diesel back-up generators

≈ 8,000 MW capacity

≈ 440,000 MT CO₂/year

≈ 95,000 passenger vehicles

*Permitted diesel back-up generators in five air districts.
M.Cubed, May 2020.*



Staff Recommendation

- Approve grant agreement
- Adopt staff's determination that project is exempt from CEQA



Item 6: Agreement with Rail Propulsion Systems LLC for Wireless Power Transfer Charging System for Battery-Electric Locomotive (ZVI-21-008)

December 8, 2021 Business Meeting

Alex Wan, Associate Energy Specialist
Fuels and Transportation Division, Medium and Heavy-Duty Zero Emission
Technologies Office



Benefits to California

Enables:

- innovative charging solution
- increased worker safety
- targeted emission reductions in Anaheim area

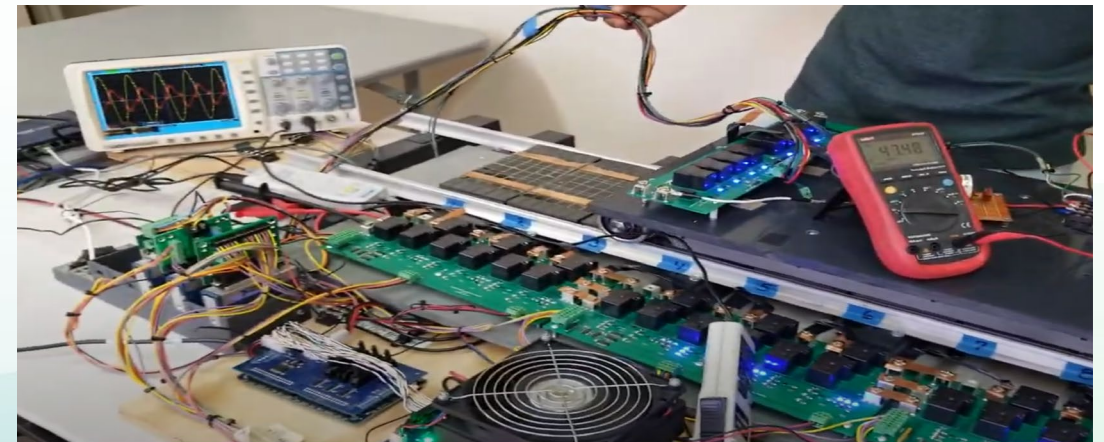




Project Overview

Rail Propulsion Systems LLC will:

- create a sub-scale Wireless Power Transfer System (WPT)
- create, test, integrate, and demonstrate a full-scale WPT on a battery locomotive





Market Potential

Other Locomotives

300+ switcher locomotives in California

Additional Markets

Passenger trains and service yards

Head-end Power

Lighting, air conditioning, and other electric systems on passenger cars



Staff Recommendation

Approve

- Agreement for \$270,000 with Rail Propulsion Systems LLC.

Adopt

- Staff's determination that this action is exempt from CEQA.



Item 7: Second Block Grant for Light-Duty Electric Vehicle Charger Incentive Projects – GFO-20-607

December 8, 2021 Business Meeting

Phil Cazal, Air Pollution Specialist

Fuels and Transportation Division, ZEV Infrastructure and Analysis Office



Benefits to Californians

Transportation Electrification

Accelerates Meeting State Goals

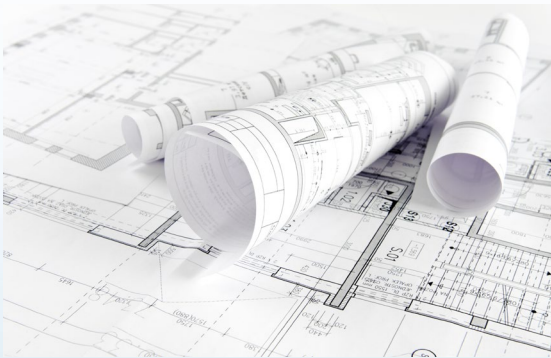
Air Quality Improvement





Guiding Principles

- **Efficient and Effective Deployment**
- **Stakeholder and Community Engagement**
- **Outreach, Support, and Technical Assistance**





Staff Recommendation

Approve Item 7 Agreements

- ZVI-21-006 with CALSTART
- ZVI-21-007 with CSE

Adopt staff's determination that action is exempt from CEQA



Item 8: Amendment #1 for Budget Augmentation for MD/HD Infrastructure Block Grant Project (ARV-20-006-01, CALSTART)

December 8, 2021 Business Meeting

Matthew Kozuch, Air Pollution Specialist
Fuels and Transportation Division, Freight & Transit Unit

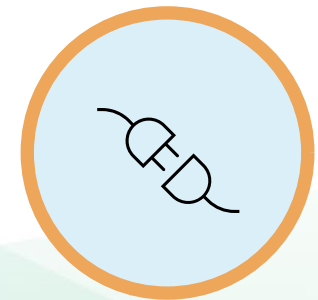


Benefits to California



Enables:

- accessible MD/HD electric charging and hydrogen refueling
- progress converting all MD/HD vehicles to ZE
- targeted emission reductions and health benefits





Project Overview



CALSTART will:

- develop MD/HD ZEV infrastructure projects
- create targeted strategies for transit, school bus, and drayage infrastructure incentives
- release funding publicly in waves, beginning in Q1 2022





Staff Recommendation



Approve

- Amendment to increase agreement spending authority from \$50M to a total of ~\$276M.

Adopt

- Staff's determination that this action is exempt from CEQA.