<table>
<thead>
<tr>
<th><strong>Docket Number:</strong></th>
<th>21-BUSMTG-01</th>
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</thead>
<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Business Meeting Agendas, Transcripts, Minutes, and Public Comments</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>240874</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>December 8 2021 Business Meeting Presentation</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>N/A</td>
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<tr>
<td><strong>Filer:</strong></td>
<td>Dorothy Murimi</td>
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<tr>
<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<tr>
<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
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<td><strong>Submission Date:</strong></td>
<td>12/8/2021 9:15:48 AM</td>
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<td><strong>Docketed Date:</strong></td>
<td>12/8/2021</td>
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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.
YOU’RE INVITED TO

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

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
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
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

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
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<tbody>
<tr>
<td>CEC Business Meeting</td>
<td>December 8, 2021</td>
</tr>
<tr>
<td>Procurement Complete</td>
<td>March 2022</td>
</tr>
<tr>
<td>CA Covered Buildings List Complete</td>
<td>June 2022</td>
</tr>
<tr>
<td>Platform Implementation Complete</td>
<td>June 2022</td>
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</tbody>
</table>
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

- H₂ Storage System
- Emergency Relief Box
- Fuel Cell
- Battery Enclosures
- Motor
- Export Power Inverter
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
Permitted diesel back-up generators in five air districts.

≈ 21,000 diesel back-up generators
≈ 8,000 MW capacity
≈ 440,000 MT CO₂/year
≈ 95,000 passenger vehicles
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
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 Cazel, Air Pollution Specialist
Fuels and Transportation Division, ZEV Infrastructure and Analysis Office
Benefits to Californians

Transportation Electrification

Accelerates Meeting State Goals

Air Quality Improvement
Project Concepts

Funding

• Start-up/Outreach
• Incentive Projects
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
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.