Peninsula Clean Energy
Board of Directors Meeting

October 24, 2019
Agenda

• Call to order / Roll call

• Public Comment

• Action to set the agenda and approve consent items
Regular Agenda

1. Chair Report (Discussion)
Regular Agenda

2. CEO Report (Discussion)
Staffing Update

Welcome to Shraddha Mutyal!
- Building Electrification Energy Program Manager

Other open positions:
- Strategic Accounts Manager
- Renewable Energy and Compliance Analyst
- Senior Renewable Energy Analyst
- Marketing Communications Manager
PCE Strategic Planning

- 45 minute in-person interviews with all board members/consultant:
  November 13 and November 14

- Strategic Planning Retreat:
  Saturday, January 11, 2020
  8 am to 1 pm
## Reach Codes Status Update

### PCE Service Territory

<table>
<thead>
<tr>
<th>PCE Service Territory</th>
<th>Overall Status</th>
<th>Council Briefing</th>
<th>Council Reading</th>
<th>Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atherton</td>
<td>Exploring</td>
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<tr>
<td>Belmont</td>
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<td>12-Nov</td>
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<td>Brisbane</td>
<td>LOI, Code Developed</td>
<td>7-Nov</td>
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<tr>
<td>Burlingame</td>
<td>LOI, Developing Code</td>
<td>4-Nov</td>
<td>18-Nov</td>
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<td>Colma</td>
<td>LOI, Exploring</td>
<td>9-Oct</td>
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<tr>
<td>County of San Mateo</td>
<td>LOI, Exploring</td>
<td>22-Oct</td>
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<td>Daly City</td>
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<td>12-Nov</td>
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<td>East Palo Alto</td>
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<td>7-Nov</td>
<td>19-Oct</td>
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<td>Foster City</td>
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<td>21-Oct</td>
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<td>Half Moon Bay</td>
<td>Exploring</td>
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<tr>
<td>Hillsborough</td>
<td>Council ok exploring</td>
<td>12-Aug</td>
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<td>Menlo Park</td>
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<td>Millbrae</td>
<td>LOI, Exploring</td>
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<td>Pacifica</td>
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<td>8-Jul</td>
<td>12-Nov</td>
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<td>Portola Valley</td>
<td>LOI, Developing Code</td>
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<td>Redwood City</td>
<td>LOI, Council ok</td>
<td>23-Sep</td>
<td>28-Oct</td>
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<td>San Bruno</td>
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<td>12-Nov</td>
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<tr>
<td>San Carlos</td>
<td>Exploring</td>
<td>25-Nov</td>
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<td>San Mateo</td>
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<td>South San Francisco</td>
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<td>Woodside</td>
<td>8-Oct</td>
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### SVCE Service Territory

<table>
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<tr>
<th>SVCE Service Territory</th>
<th>Overall Status</th>
<th>Council Briefing</th>
<th>Council Reading</th>
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<tbody>
<tr>
<td>Campbell</td>
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<td>County of Santa Clara</td>
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<td>16-Oct</td>
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<td>Cupertino</td>
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<td>Gilroy</td>
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<td>4-Nov</td>
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<tr>
<td>Los Altos</td>
<td>LOI, Exploring</td>
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<td>22-Oct</td>
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<tr>
<td>Los Altos Hills</td>
<td>LOI, Exploring</td>
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<td>19-Sep</td>
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<tr>
<td>Los Gatos</td>
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<td>17-Oct</td>
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<td>Milpitas</td>
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<td>Monte Sereno</td>
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<td>Morgan Hill</td>
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<td>Mountain View</td>
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<td>23-Oct</td>
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<tr>
<td>Saratoga</td>
<td>Exploring</td>
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<td>16-Oct</td>
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<tr>
<td>Sunnyvale</td>
<td>LOI, Exploring</td>
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</table>
**EV Incentive Program Updates**

**New Dealer Incentive Program** launched on October 1 and runs until December 31
- Results as of 10/21:
  * 19 vehicles sold
  * Estimated CO2 emissions avoided over 10 years: 920 Tons

**DriveForward Electric** Used EV/Plug-in EV Program
- Results as of 10/21:
  * 18 vehicles sold
  * Estimated CO2 emission avoided over 10 years: 920 Tons
Legislative/Regulatory Update

Met with Assembly Member Mullin on October 17
Thank you to Donna Colson and Pradeep Gupta for attending

Meetings with State Senators Jerry Hill and Scott Wiener, and Assembly Members Marc Berman and Phil Ting are being scheduled
Upcoming Meetings

- CalCCA Annual Summit: November 6-7, Redondo Beach
  - Elected Officials Luncheon on November 6 from 12:30 – 2:30
  - PCE is co-host and Rick DeGolia is speaking
Regular Agenda

3. Citizens Advisory Committee Report (Discussion)
4. Approve adding new Commercial TOU (Time of Use) rate schedules (Action)
Non-Residential TOU Rate Update

Commercial and Industrial Customers
Non-Residential TOU Rate Update Overview

- Mandatory for all non-residential customers with eligible meters
- New rates will be available November 2019 for Commercial and Industrial (C&I)/March 2020 for Agricultural (Ag)
- Mandatory transition set for Nov. 2020 for C&I and March 2021 for Ag customers
- Solar Grandfathering for eligible customers
- The old TOU rates will be closed to new enrollment when the new rates are available for opt-in
- Super-off peak period for C&I will be from 9am-2pm everyday from March through May only
- Ag TOU periods will have a peak of 5-8pm, no partial peak and no super-off peak
## TOU Residential vs Non-Res Transition

<table>
<thead>
<tr>
<th></th>
<th>Bill Protection</th>
<th>Already on TOU</th>
<th>Mandatory Transition</th>
<th>Regional Roll Out</th>
<th>Dedicated Opt-In Period</th>
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<td><strong>Residential Transition</strong></td>
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<tr>
<td><strong>Non-Residential Transition</strong></td>
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<td>☑</td>
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</table>
# Current vs New TOU Rate Structure

## Current Plan

<table>
<thead>
<tr>
<th>Months</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
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<tbody>
<tr>
<td>Days</td>
<td>Mon</td>
<td>Tue</td>
<td>Wed</td>
<td>Thu</td>
<td>Fri</td>
<td>Sat</td>
<td>Sun</td>
<td>Mon</td>
<td>Tue</td>
<td>Wed</td>
<td>Thu</td>
<td>Fri</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rates &amp; Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 am</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Cost per kWh (20)</th>
</tr>
</thead>
</table>

## New Plan

### June - September

### Rates & Times

- Off-Peak
- Partial-Peak
- On-Peak

### Cost per kWh ($0.20/kWh)

- 12 am | 2 pm | 4 pm | 9 pm | 11 pm | 5 pm | 8 pm | 12 am |

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**PENINSULA CLEAN ENERGY**
Non-Res TOU Transition Schedule

Voluntary Opt-In Period Window
- C&I – November 2019 to October 2020
- Ag – March 2020 to February 2021

Mandatory Transition Window
- C&I – November 2020
- Ag – March 2021
- Ag Most Impacted – March 2022

After First Mandatory Transition
- Twice per year transitions will continue for remaining customers who were not eligible for the first Nov 2020/March 2021 transition in perpetuity using the same transition windows of November for C&I and March for Ag until all non-res customers are on new TOU rates. At any time, customers may voluntarily enroll before any subsequent default windows.
## Non-Res TOU Rate Names

<table>
<thead>
<tr>
<th>C&amp;I Current rates (old TOU)</th>
<th>New C&amp;I Rate Names</th>
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</thead>
<tbody>
<tr>
<td>A-1</td>
<td>Bus Low Use (B-1)</td>
</tr>
<tr>
<td>A-6</td>
<td>Bus Low Use Alt (B-6)</td>
</tr>
<tr>
<td>A-10</td>
<td>Bus Med Use (B-10)</td>
</tr>
<tr>
<td>E-19</td>
<td>Bus Med-High Use (B-19)</td>
</tr>
<tr>
<td>E-20</td>
<td>Bus High Use (B-20)</td>
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</table>
Regular Agenda

5. Approve PCE rate adjustment to maintain 5% discount across all rate schedules (Action)
Regular Agenda

6. Approve a three-year $10 million budget for local electricity resilience programs (Action)
Contents

- Recommendation
- Background on PSPS
- Latest PSPS event results
- Comparing diesel to solar + storage
- Three priorities
- PCE’s strategic position
Recommendation

Approve three-year $10 million budget for local electricity resiliency programs.
Public Safety Power Shutoffs

- Wildfire mitigation
  - PG&E faces billions in fines from the Camp Fire and others

- Conditions for calling an event include:
  - Red flag warning declared by National Weather Service
  - <20% humidity levels
  - >25 mph sustained winds, >45 mph wind gusts
  - High amount of dry fuel and live vegetation on the ground
  - PG&E field observations
10/9–10/11 PSPS event results

State-wide Impact

- 738,000 accounts affected, approximately 2.7 million people
- Economic losses of $1 – 2.5 billion

PCE Customers

- 14,000+ accounts affected
- More than 270 medical baseline accounts
- Critical facilities: One customer resource center in HMB; loss of power to an assisted living facility

### Backup Energy Solutions

<table>
<thead>
<tr>
<th></th>
<th>Deployment Timeframe</th>
<th>Application Maturity</th>
<th>Emissions</th>
<th>Duration</th>
<th>Other Externalities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Solar + storage</strong></td>
<td>Quick deployments</td>
<td>Proven technology in different capacities</td>
<td>No pollutants</td>
<td>Short to long; generation can be affected during storms or wildfires</td>
<td>Provides benefit to the grid outside of blackouts</td>
</tr>
<tr>
<td><strong>Diesel</strong></td>
<td>Quicker deployments</td>
<td>Proven technology in existing capacities</td>
<td>CO2, NOX, and particulate matter</td>
<td>Medium to long; need to re-fuel when diesel runs out</td>
<td>Dangerous during natural disasters</td>
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## Three Priority Areas

<table>
<thead>
<tr>
<th>medically fragile customers</th>
<th>Dependent on electricity for medical equipment like ventilators</th>
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<tbody>
<tr>
<td></td>
<td>Difficult market segment to reach</td>
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<tr>
<td></td>
<td>Third-party funding available</td>
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<table>
<thead>
<tr>
<th>emergency community facilities</th>
<th>Studying facilities in San Mateo and Alameda Counties</th>
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<tbody>
<tr>
<td></td>
<td>$300,000 BAAQMD-funded grant</td>
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<td></td>
<td>Procurement in 2020</td>
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<table>
<thead>
<tr>
<th>critical infrastructure</th>
<th>Police/fire/hospitals</th>
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<tbody>
<tr>
<td></td>
<td>Communications facilities and cell towers</td>
</tr>
<tr>
<td></td>
<td>Emergency first responders</td>
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<tr>
<td></td>
<td>Wastewater, sewage, water pumping facilities</td>
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<td></td>
<td>Transportation infrastructure</td>
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</table>
PCE’s Strategic Position

- **Technology Providers**
- **PCE**
- **PCE Customers**
  - Leverage access to and relationships with customers

- **Public Health Community**
  - Mobilize public stakeholders

- **Grid Benefits**
  - Aggregate systems to provide grid benefits
Request to Board

Request: Approve $10M budget over 3 years for local electricity resiliency programs.

Outcomes:
1. Staff will bring individual programs to the Board for approval as more fully developed.
2. Implementation of energy resiliency programs for residences, municipalities, and critical facilities.
3. Position PCE for co-funding support from CEC, CPUC, and BAAQMD.
7. Approve contract for up to $850,000 with the Center for Sustainable Energy to administer PCE electric vehicle incentive funds of up to $12 million as part of CALeVIP (California Electric Vehicle Infrastructure Project) (Action)
Energy Programs Update

California Electric Vehicle Incentive Project

Center for Sustainable Energy Contract Approval Request
CALeVIP CSE Contract: Request

**Program:** Electric Vehicle Infrastructure Program approved by the Board in December 2018

**Request:** Delegate authority to CEO to execute contract with Center for Sustainable Energy for CALeVIP participation

**Amount:** Up to $850,000
Transportation Detail

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<tr>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<tbody>
<tr>
<td>Personal</td>
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<tr>
<td>Multi-unit dwelling &amp; Workplace</td>
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<tr>
<td>Public Charging</td>
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<td>Shared Mobility</td>
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<tr>
<td>Public Light-Duty Fleets</td>
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<tr>
<td>School &amp; Transit Buses</td>
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<tr>
<td>EV Cash For Clunkers</td>
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- EV Charging program

Electric Vehicles in San Mateo County: 19,000 (out of 670,000)
State Goal by 2025: 45,544 EVs in San Mateo County
Private EV Segments Approach

- **Can charge**
  - Can afford
  - Ride & Drives
  - New EV Incentives

- **Cannot charge**
  - Cannot afford
  - Low Income
  - Used EV Incentives

**EV Infrastructure Incentives**

Reach Codes
PCE & California Electric Vehicle Incentive Project

**PCE Program**
1. Approved by the Board December 2018: $16 million over 4 years
2. Successfully applied to California Energy Commission (CEC) to bring CEC funds to San Mateo County through CEC’s CALeVIP
3. PCE program now includes CALeVIP

**California EV Infrastructure Project (CALeVIP)**
1. CEC-funded EV charging infrastructure incentive program
2. Deployed on county levels with needs-based funding formulas
3. Includes $12 million from CEC for San Mateo County
4. CALeVIP includes its own rebate administrator: Center for Sustainable Energy
5. PCE places a portion of its incentive funds with CALeVIP as “co-funding” for fast charge and Level 2 charger installations
6. PCE will manage its own separate but complementary program for Level 1 and other needs not covered by CALeVIP
Overall Program Structure

Unaware

Aware

Interested

Act

Reach

Facilitate

Outreach & Tech Asst

CLEAResult®

Contractors

Rebates

Workforce Development

Systems

POWERPATH
# PCE Program Budget

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<thead>
<tr>
<th>Component</th>
<th>Budget</th>
<th>Allocation</th>
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<tr>
<td>Infrastructure Incentives</td>
<td>$12M</td>
<td>CALeVIP Incentives</td>
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<tr>
<td></td>
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<td>PCE L1/ L2 EV Charging Program</td>
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<tr>
<td>TA Consultant</td>
<td>$2M</td>
<td>CLEAResult</td>
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<td>Workforce Development</td>
<td>$1M</td>
<td>TBD grants</td>
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<tr>
<td>Program Administration</td>
<td>$1M</td>
<td>CSE Contract Fee, PCE Programs Platform, other</td>
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**Total** $16M
Overview

• Non-profit energy program administration and advisory services organization

• In 2017, CEC selected CSE to design and administer $200 million in EV incentive grant funds

Role within CALeVIP

• Site application and incentive processing
• Application and website development and maintenance
• Overall program administration
• Data collection
CSE Scope of Work & Modifications

1. Incentive Project Design
2. Development and Configuration of Incentive Processing Website
3. Support limited Project Marketing, Education, Outreach
4. EV Charging Incentive Project Administration
5. Data Collection
6. Administrative
7. Account and Funds Management

Modifications

- Reduction in marketing scope
- Negotiation over administrative cost
- Negotiation over specific program requirements
CALeVIP CSE Contract: Request

**Program:** Electric Vehicle Infrastructure Program approved by the Board in December 2018

**Request:** Delegate authority to CEO to execute contract with Center for Sustainable Energy for CALeVIP participation

**Amount:** Up to $850,000
Supporting Slides
L2 Installation Cost Analysis

Avg Cost per L2 Charging Port

- Palo Alto MUDs (18 ports) $13,000.00
- BAAQMD - Various (78 ports) $11,190.21
- BAAQMD - Public (398 ports) $8,531.30
- BAAQMD - Workplace (1,904 ports) $8,077.79
- PCE MUDs 2018 (49 ports) $7,595.88
- BayCAP - Public (78 ports) $3,120.08
- PG&E (7,500 ports) $13,500.00

Large Scale Installations

PCE Est. Cost Analysis

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Ports per Project</th>
<th>Cost per Port</th>
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<tr>
<td>MUD New Build</td>
<td>60</td>
<td>$830</td>
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<tr>
<td>MUD Retrofit</td>
<td>60</td>
<td>$2,250</td>
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Labor
- Non-Union BAAQMD, BayCAP
- Union Labor PG&E, CPAU

Scope
- 1-5 Ports CPAU
- 5-10 Ports BAAQMD, PCE MUDs
- 10-15 Ports BAAQMD (Workplace)
- 15+ Ports & Svc Upgrade PG&E

Charging Type
- L2 All
- DCFC None
Regular Agenda

8. Board Members’ Reports (Discussion)
Regular Agenda

Adjourn