



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	Overall Status	Council Briefing	Council Reading	Column1
Atherton				Declined
Belmont	Exploring	12-Nov		
Brisbane	LOI, Code Developed		7-Nov	
Burlingame	LOI, Developing Code	4-Nov	18-Nov	
Colma	LOI, Exploring	9-Oct		
County of San Mateo	LOI, Exploring	22-Oct		
Daly City	Exploring	12-Nov		
East Palo Alto	LOI, Exploring	7-Nov	19-Nov	
Foster City	Exploring	21-Oct		
Half Moon Bay	Exploring			
Hillsborough	Council ok exploring	12-Aug		
Menlo Park	ADOPTED			
Millbrae	LOI, Exploring	22-Oct		
Pacifica	LOI, Council ok	8-Jul	12-Nov	
Portola Valley	LOI, Developing Code	25-Sep		
Redwood City	LOI, Council ok	23-Sep	28-Oct	
San Bruno	LOI, Exploring		12-Nov	
San Carlos	Exploring	25-Nov		
San Mateo	ADOPTED			
South San Francisco				
Woodside		8-Oct		Declined

SVCE Service Territory	Overall Status	Council Briefing	Council Reading
Campbell	LOI, Exploring	5-Nov	
County of Santa Clara		16-Oct	
Cupertino	LOI, Exploring		19-Nov
Gilroy	LOI, Exploring		4-Nov
Los Altos	LOI, Exploring		22-Oct
Los Altos Hills	LOI, Exploring	19-Sep	17-Oct
Los Gatos	LOI, Exploring	5-Nov	
Milpitas	LOI, Exploring		
Monte Sereno	Council ok	6-Aug	15-Oct
Morgan Hill	LOI, Exploring	4-Sep	23-Oct
Mountain View	LOI, Exploring		22-Oct
Saratoga	Exploring		16-Oct
Sunnyvale	LOI, Exploring		

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)

Regular Agenda

4. Approve adding new Commercial TOU (Time of Use) rate schedules (Action)



Non-Residential TOU Rate Update

Commercial and Industrial Customers

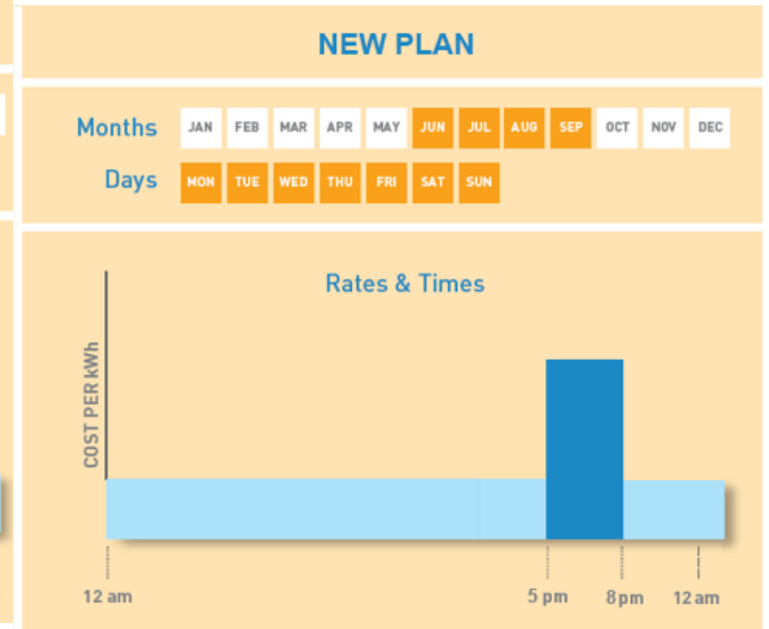
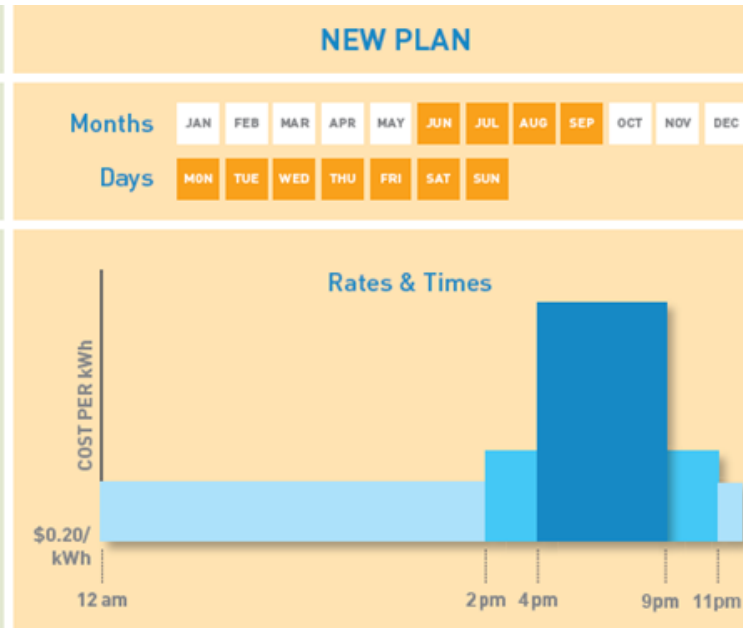
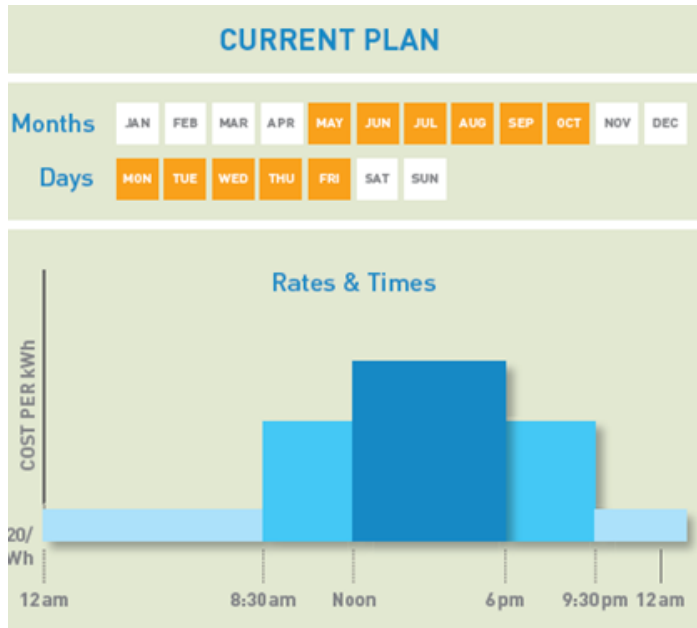
Non-Residential TOU Rate Update Overview

- 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

	Bill Protection	Already on TOU	Mandatory Transition	Regional Roll Out	Dedicated Opt-In Period
<u>Residential</u> Transition	✓			✓	
<u>Non-Residential</u> Transition		✓	✓		✓

Current vs New TOU Rate Structure



 HIGHER SUMMER RATES IN EFFECT

 LOWER WINTER RATES IN EFFECT

 OFF-PEAK

 PARTIAL-PEAK

 ON-PEAK

 June - September

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

C&I Current rates (old TOU)	New C&I Rate Names
A-1	Bus Low Use (B-1)
A-6	Bus Low Use Alt (B-6)
A-10	Bus Med Use (B-10)
E-19	Bus Med-High Use (B-19)
E-20	Bus High Use (B-20)

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)



LOCAL ELECTRICITY RESILIENCY PROGRAM

October 24, 2019

Contents

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

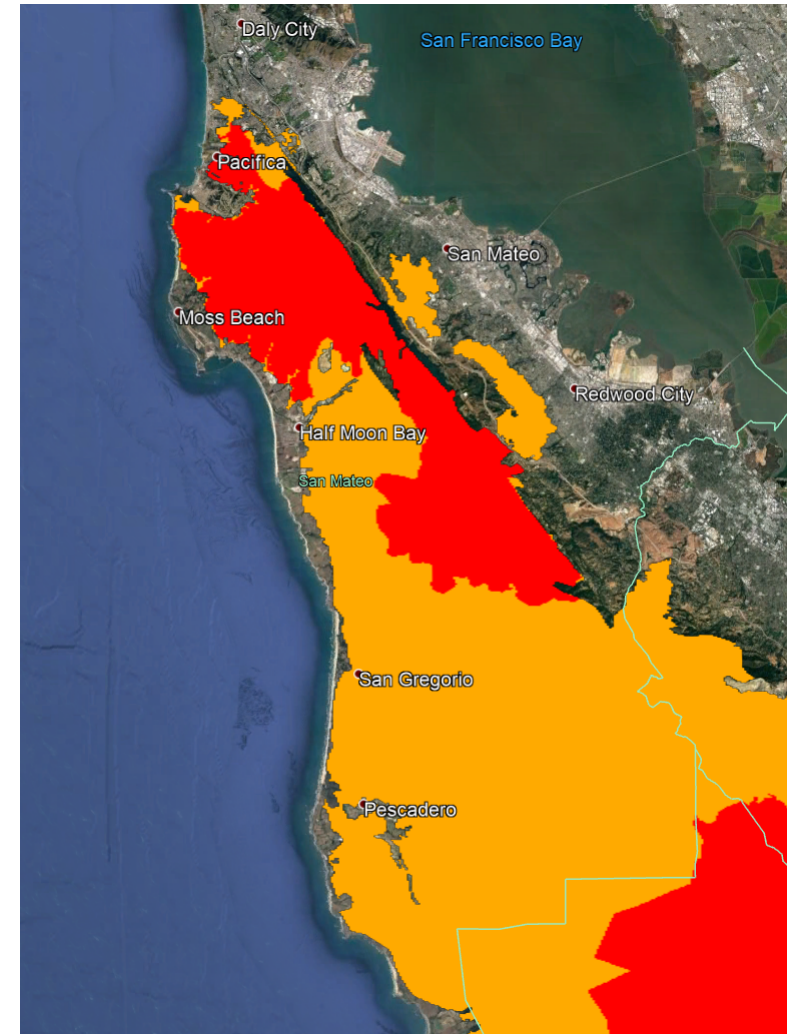
Recommendation

Approve three-year \$10 million budget for local electricity resiliency programs.

Background on PSPS

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



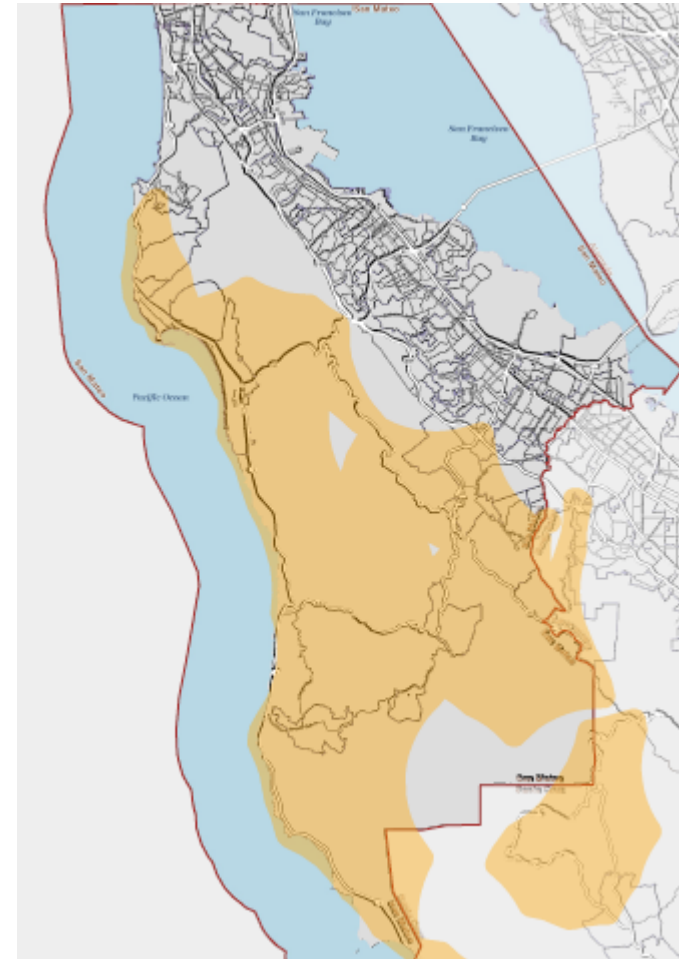
10/9–10/11 PSPS event results

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



1

¹<https://cmo.smcgov.org/blog/2019-10-09/county-san-mateo-readies-pge-power-shut-due-extreme-weather-fire-danger>

Backup Energy Solutions

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

Three Priority Areas

Medically Fragile Customers

Dependent on electricity for medical equipment like ventilators

Difficult market segment to reach

Third-party funding available

Emergency Community Facilities

Studying facilities in San Mateo and Alameda Counties

\$300,000 BAAQMD-funded grant

Procurement in 2020

Critical Infrastructure

Police/fire/hospitals

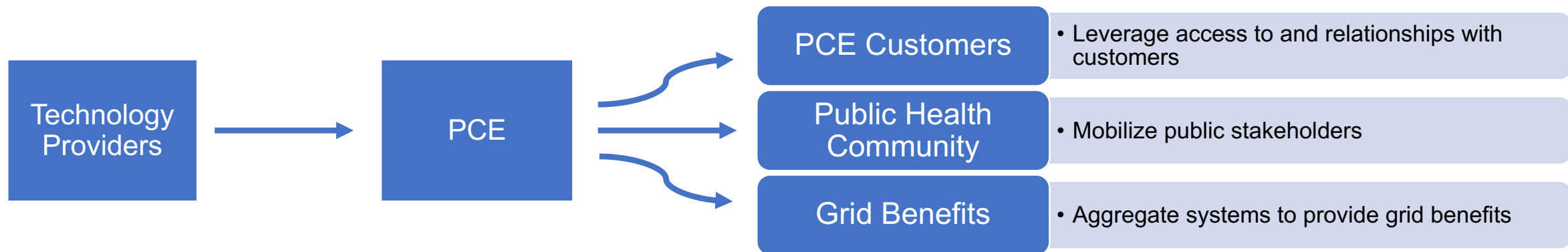
Communications facilities and cell towers

Emergency first responders

Wastewater, sewage, water pumping facilities

Transportation infrastructure

PCE's Strategic Position



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.

Regular Agenda

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

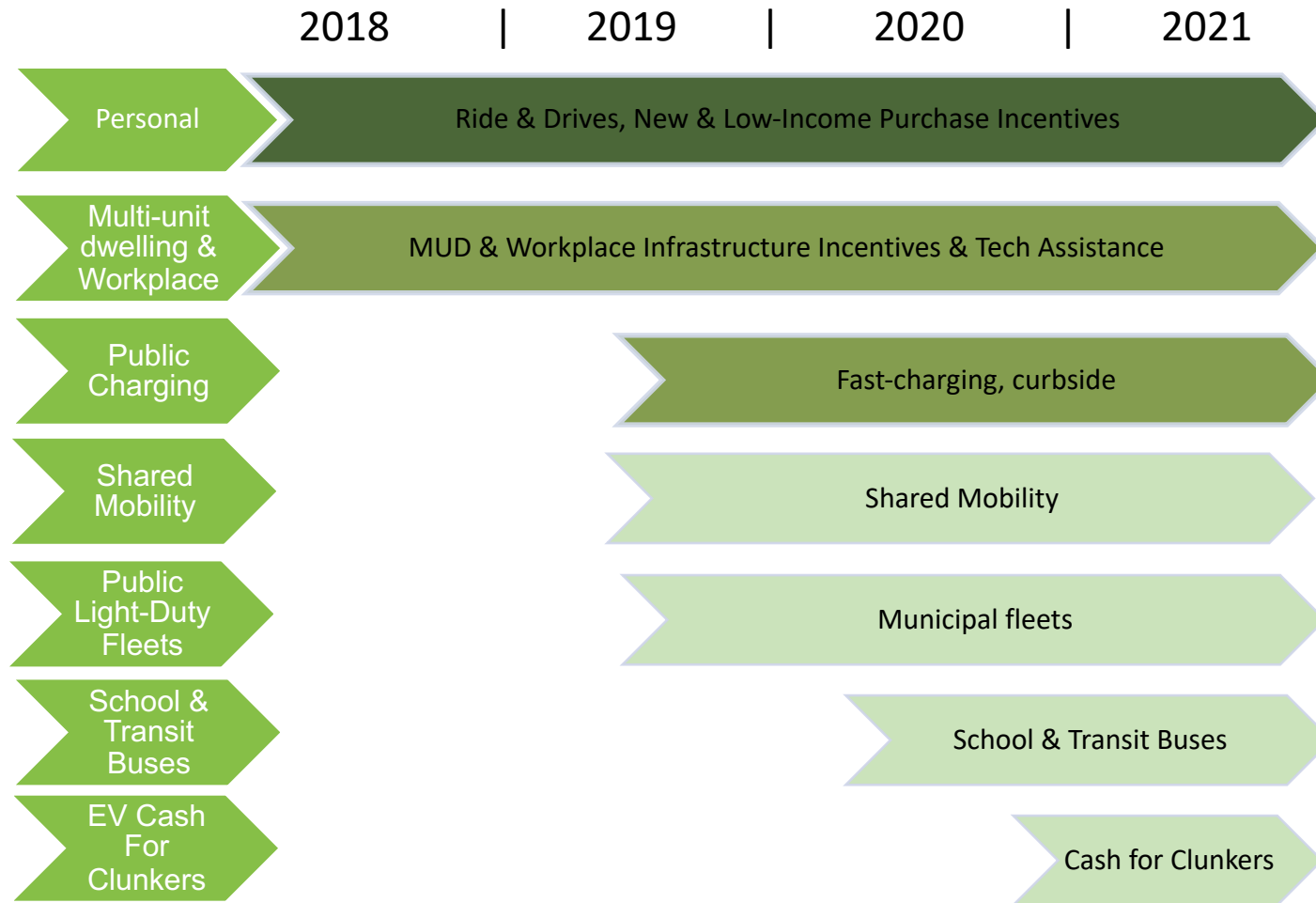
CALeVIP CSE Contract: Request

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

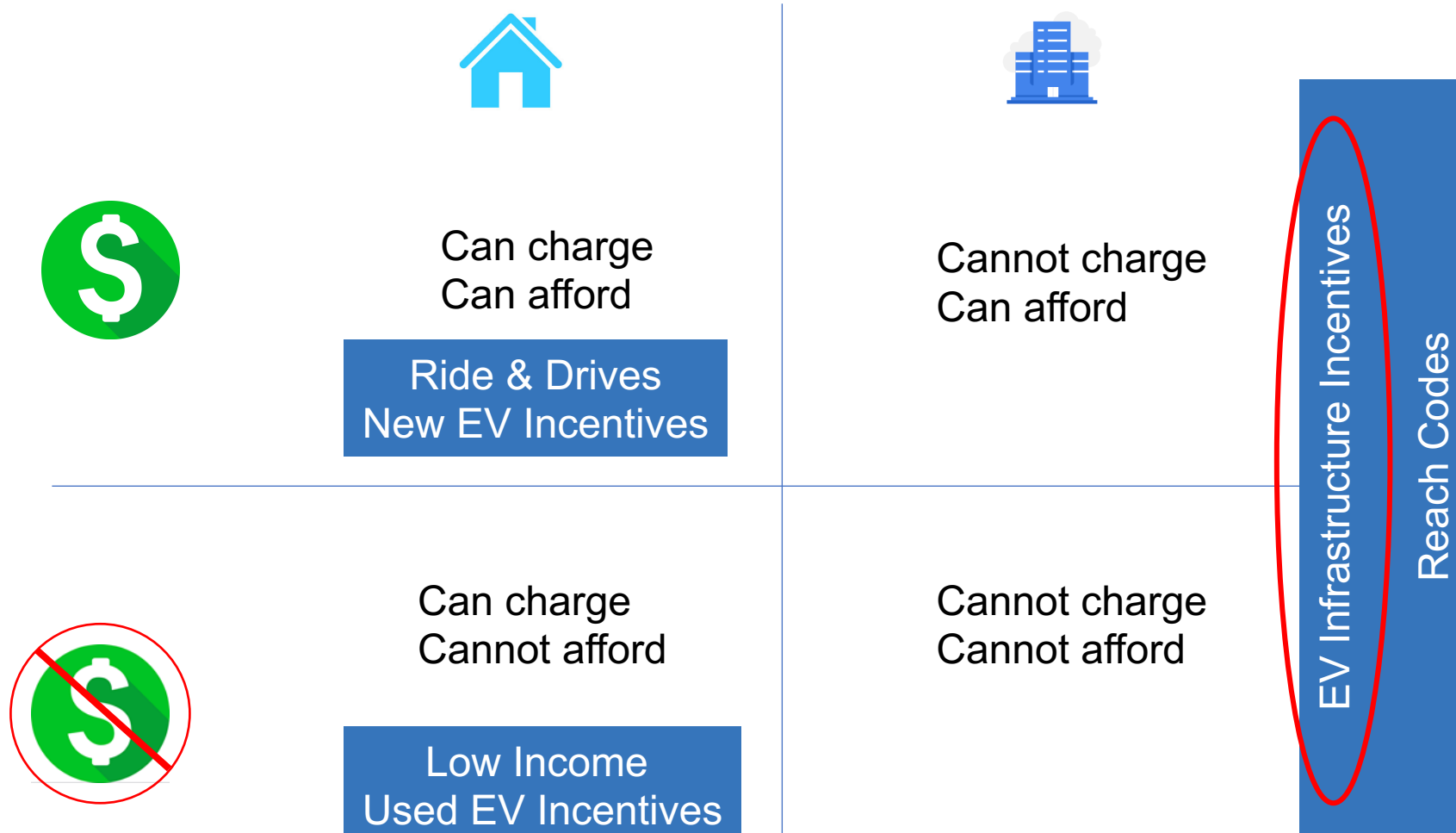
Transportation Detail



- 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



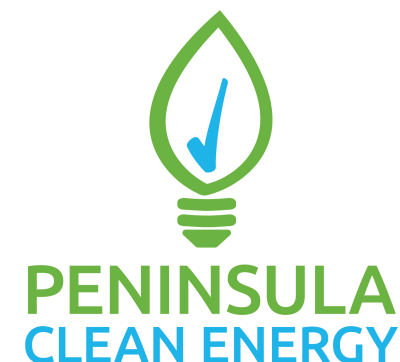
PCE & California Electric Vehicle Incentive Project

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

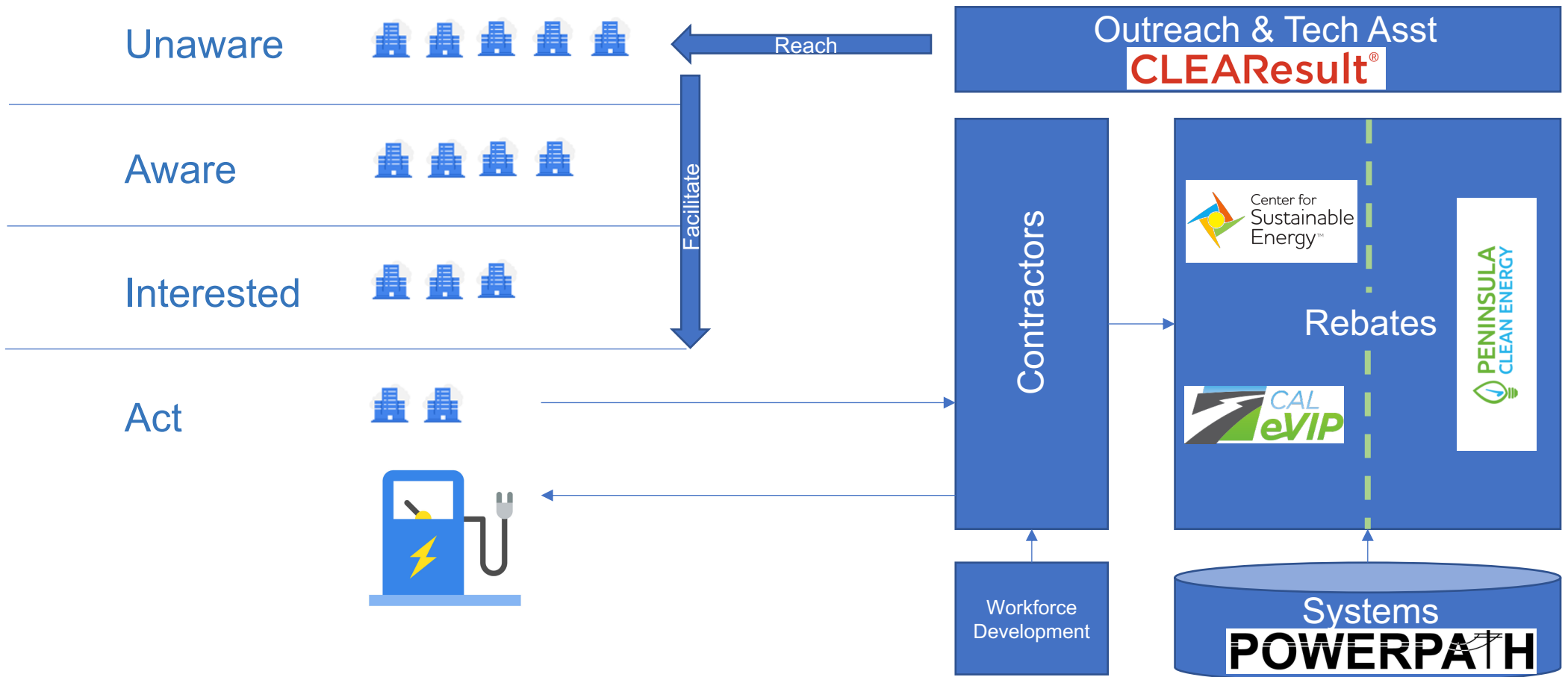
California EV Infrastructure Project (CALeVIP)

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



Peninsula-Silicon Valley Project

Overall Program Structure



PCE Program Budget

Component	Budget	Allocation
Infrastructure Incentives	\$12M	CALeVIP Incentives
		PCE L1/ L2 EV Charging Program
TA Consultant	\$2M	CLEAResult
Workforce Development	\$1M	<i>TBD grants</i>
Program Administration	\$1M	CSE Contract Fee, PCE Programs Platform, other

Total \$16M

Center for Sustainable Energy

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



Center for
Sustainable
Energy™

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

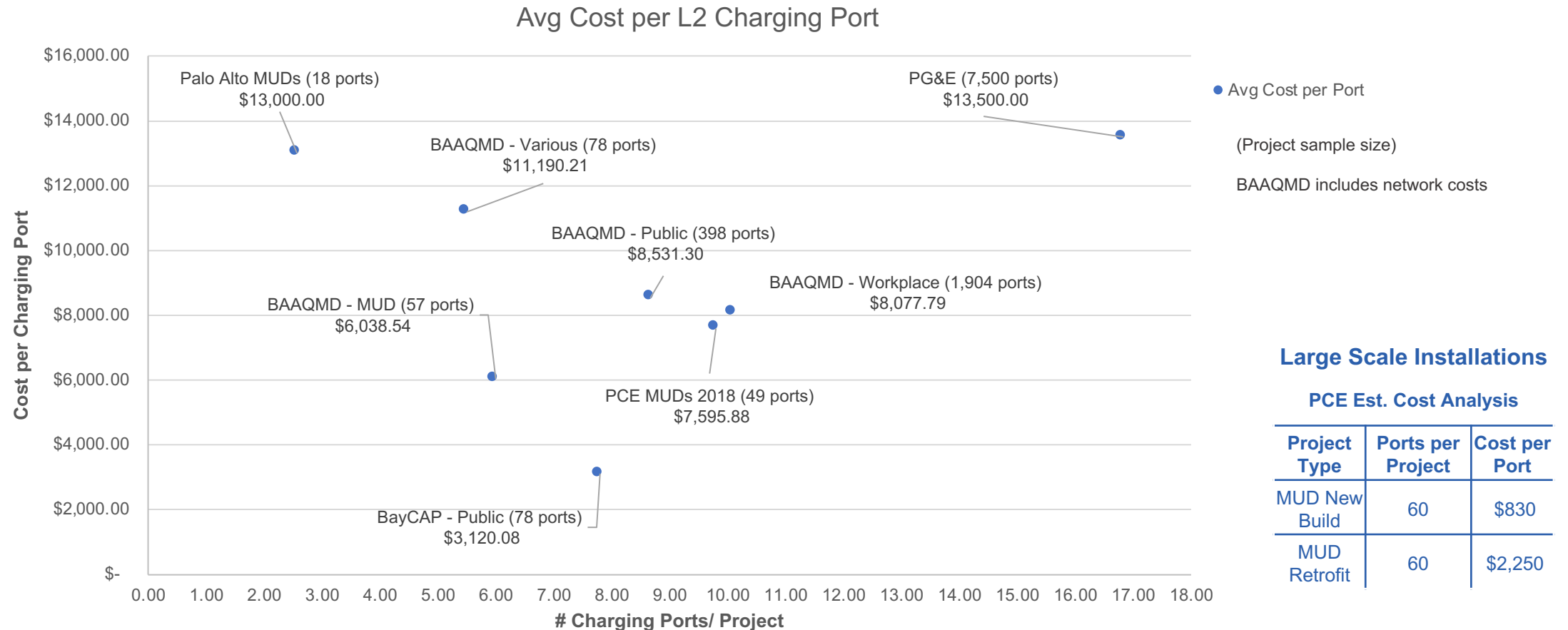
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Supporting Slides

L2 Installation Cost Analysis



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