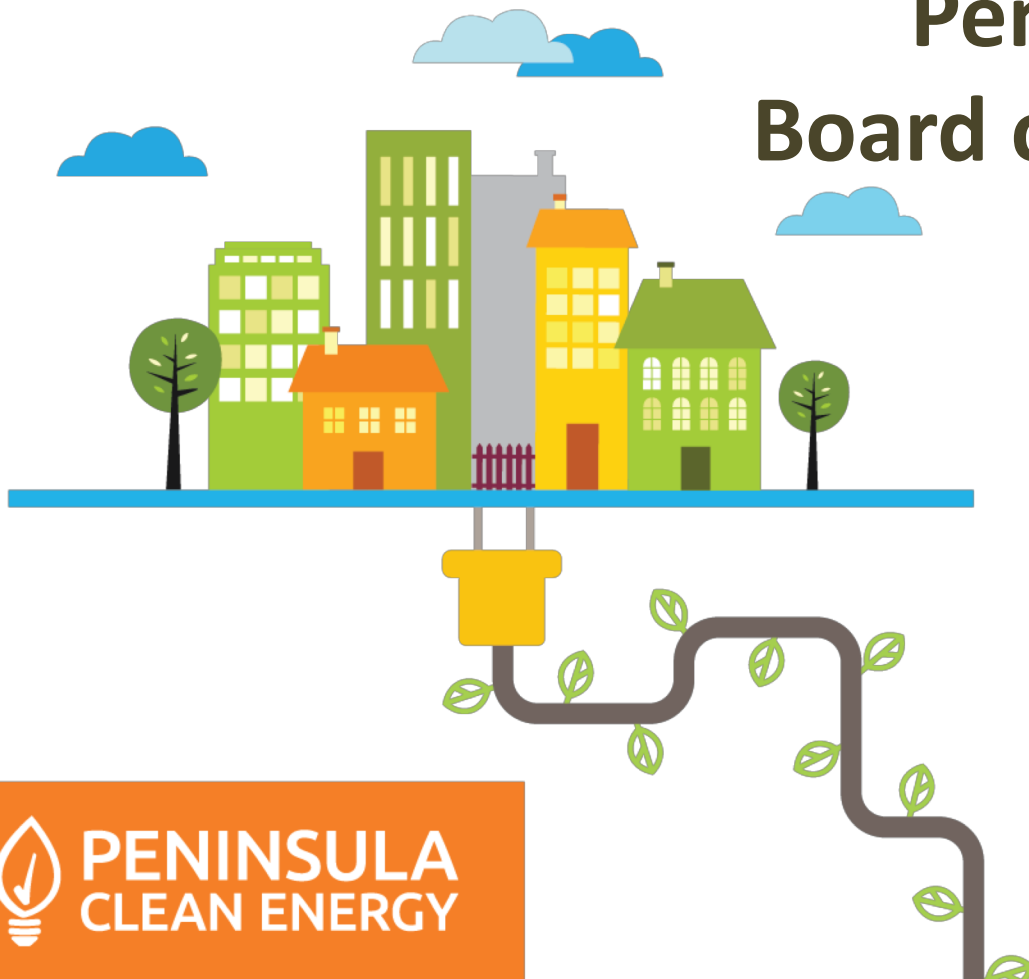


Peninsula Clean Energy Board of Directors Meeting

December 20, 2018



Agenda

Call to order / Roll call

Public Comment

**Action to set the agenda and approve
consent items**

Closed Session

1. PUBLIC EMPLOYEE PERFORMANCE EVALUATION Title: Chief Executive Officer

2. CONFERENCE WITH LABOR NEGOTIATORS

Closed Session

**3. RECONVENE OPEN SESSION
AND REPORT ANY ACTION(S)
TAKEN DURING CLOSED SESSION**

Regular Agenda

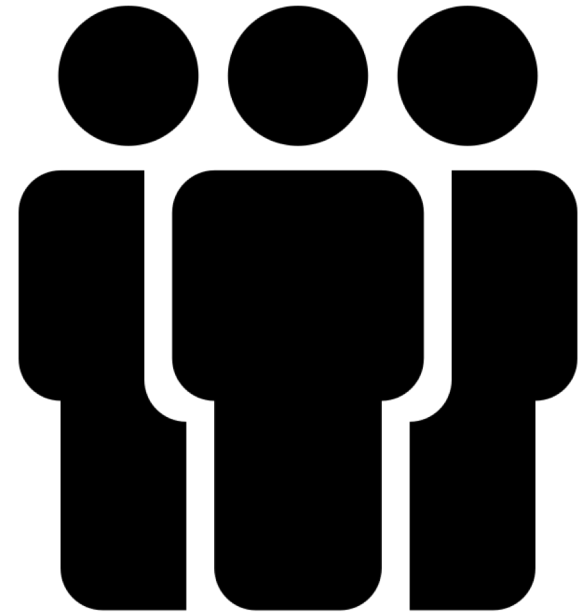
1. Chair Report (Discussion)

Regular Agenda

2. CEO Report (Discussion)

Personnel Update

- Manager of Distributed Energy Resources (DER) Strategy
 - Re-posted position
- Regulatory Analyst / Senior Regulatory Analyst



Green Power Community/Partnership Update

- Thank you to all of the cities for designating your internal staff person
- Applications will be sent to EPA for all 21 PCE jurisdictions to receive Green Power Community status
- Applications will be sent to EPA for all ECO100 jurisdictions to receive Green Power Partnership status *
- Will be completed before end of 2018



EV Promotion

- 3 participating dealerships:
 - Putnam Nissan in Burlingame
 - Stewart Chevrolet in Colma
 - Peter Pan BMW in San Mateo – starting Monday, Oct 29
- Promotion continues through December 31
- Results will be communicated in January

Nov/Dec Regulatory/Legislative Meetings

- Assemblymember Marc Berman on November 27: Thank you to Jeff Aalfs and Cat Carlton
- Meeting with Senator Scott Wiener on November 27: Thank you to Jeff Aalfs, Rick Bonilla, and Cat Carlton
- Assemblymember Phil Ting on December 6: Thank you to Rick DeGolia and Daniel Yost
- Assemblymember Kevin Mullin's staff on December 6: Thank you to Jeff Aalfs, Rick Bonilla, and Daniel Yost

Future Regulatory / Legislative Meetings

- Meet and Greet with CPUC Commissioner Liane Randolph
 - January 30, 1:00 pm
- Others are in the process of being scheduled

New CCA Formations

- Implementation plans submitted to CPUC for 5 more cities in southern California, through California Choice Energy Agency
- PCE focusing effort in 2019 to inform Merced County and its cities about CCA, where Wright Solar Project is located

CalCCA Local Elected Board Members Committee

- Purpose:
 - Get to know each other
 - Work collaboratively on legislative issues important to CCAs
- Meet quarterly with other elected board members from other CCAs
- Anyone else interested from PCE board?



Regular Agenda

3. Citizens Advisory Committee Report (Discussion)

Regular Agenda

4. Recognition of Retiring Board Members (Discussion)

Regular Agenda

5. Approve four new PCE policies designed to satisfy data-privacy and security requirements of the California Public Utilities Commission: (Action)

- a. AMI* Data-Privacy and Security Policy**
- b. Privacy Notice**
- c. Information Technology Security Policy**
- d. Records Retention Policy**

*** Advanced Metering Infrastructure (AMI)**

Regular Agenda

6. Approve 2019 Board of Directors Meeting Schedule (Action)

2019 Board of Directors Meeting Schedule

- The new year's meeting schedule is approved by the Board before the end of each year
- Approved meeting dates become the "Regular Meeting" schedule for the public
- PCE's Board meets the 4th Thursday/month, except September (Saturday retreat), and November and December to avoid holidays
- We will send calendar invitations for the 2019 meeting dates – please accept to add to your calendar
- Please invite your Alternate if you cannot attend

Regular Agenda

- 7. Approve the proposed PCE four-year \$16 million Electric Vehicle Infrastructure Incentive Program (Action)**

EV Infrastructure Incentive Program

December 20, 2018



Request & Outcomes

Request: Board direction and approval of \$16M EV Infrastructure Incentive Program

Outcomes

1. Implementation of EV infrastructure program
2. Position PCE for co-funding support from CEC, PG&E, VW, and BAAQMD
3. Deliver 3,500 ports
4. GHG reductions of 40M+ lbs CO₂/yr

Program Summary

Goal: 3,500 EV charging ports

Leveraged Funding:

- \$16 M PCE
- \$45.3 M co-funding (PG&E, AQMD, others)

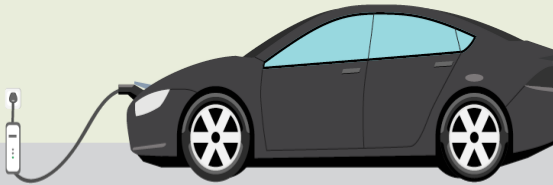
Term: 4 years, launch mid-2019

Other Elements:

- Outreach & Technical Assistance
- Workforce Development & Training
- Grid Readiness Standards

EV Infrastructure Primer: Charging Types

AC Level One



VOLTAGE

120v 1-Phase AC

AMPS

12–16 Amps

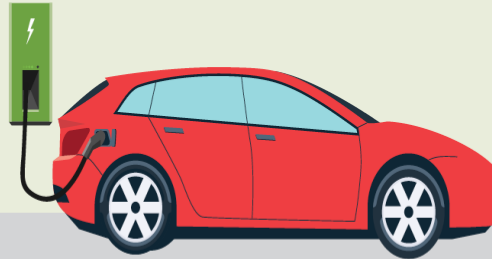
CHARGING LOADS

1.4 to 1.9 kW

CHARGE TIME FOR VEHICLE

3–5 Miles of Range Per Hour

AC Level Two



VOLTAGE

208V or 240V 1-Phase AC

AMPS

12–80 Amps (Typ. 32 Amps)

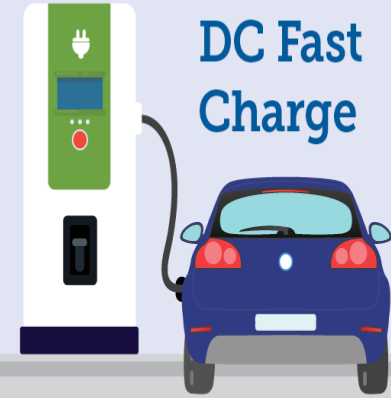
CHARGING LOADS

2.5 to 19.2 kW (Typ. 7 kW)

CHARGE TIME FOR VEHICLE

10–20 Miles of Range Per Hour

DC Fast Charge



VOLTAGE

208V or 480V 3-Phase AC

AMPS

<125 Amps (Typ. 60 Amps)

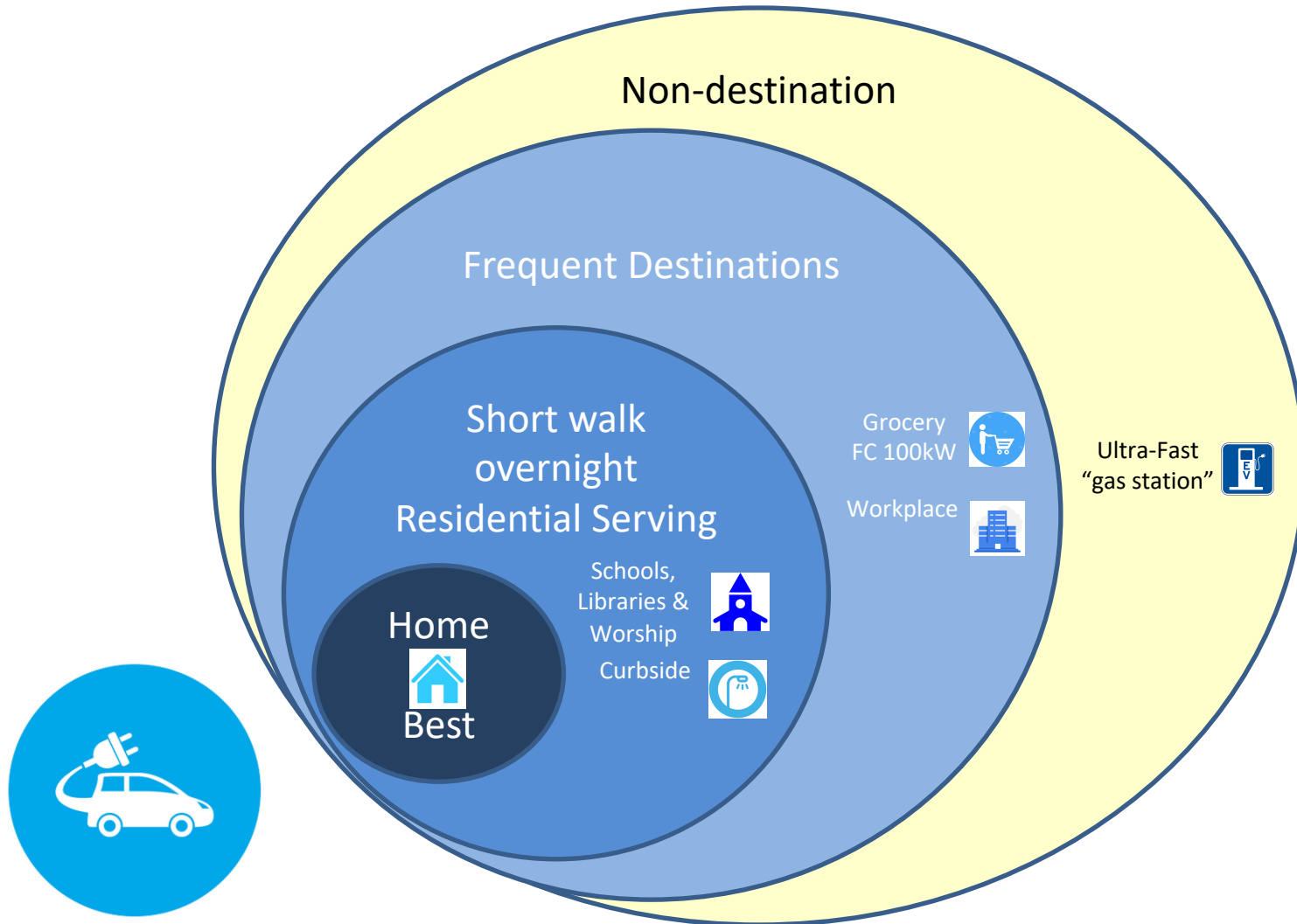
CHARGING LOADS

<90 kW (Typ. 50 kW)

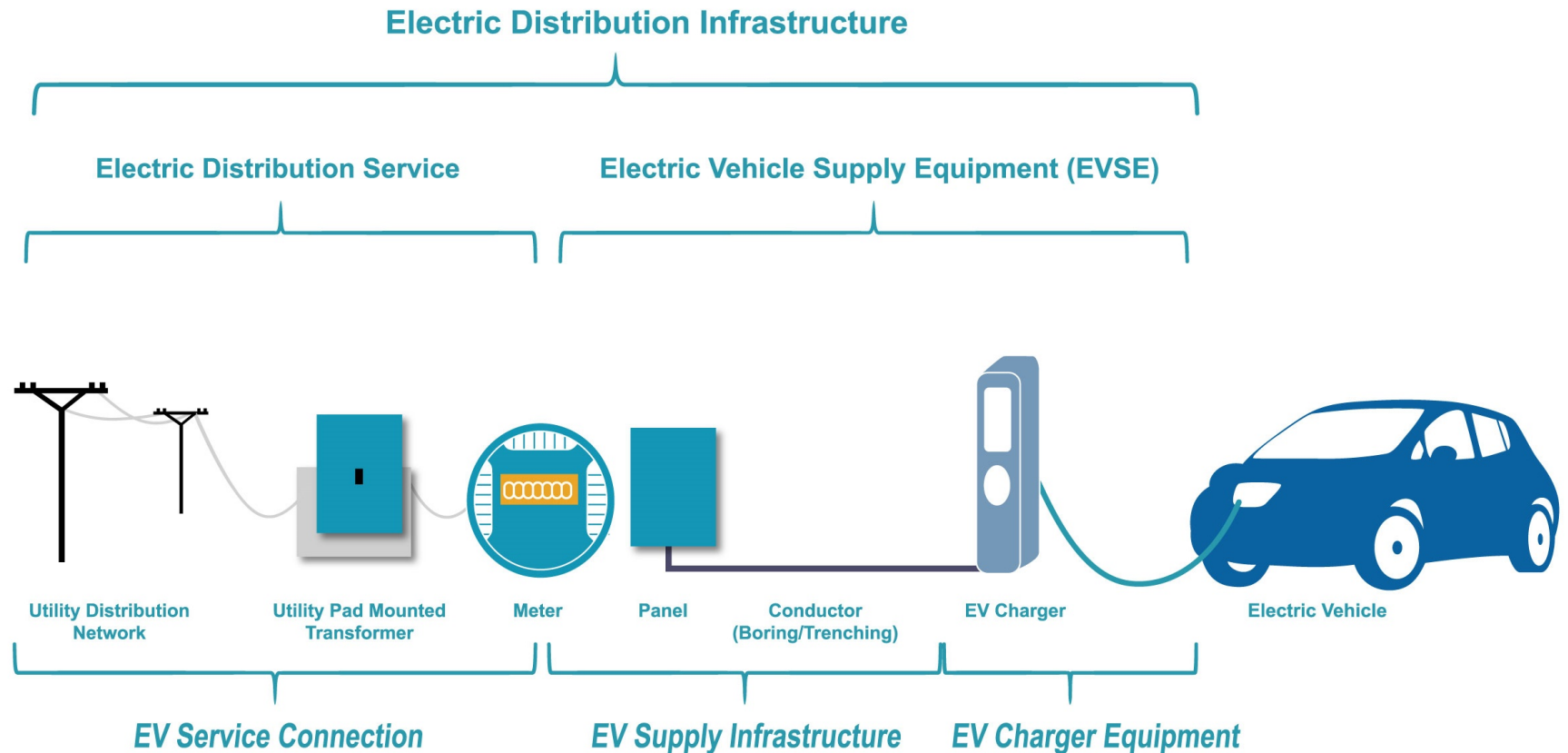
CHARGE TIME FOR VEHICLE

80% Charge in 20–30 Minutes

Proximity = Convenience



Infrastructure Challenges



Level 1 or 2 Costs: \$6,000 - \$20,000 per port
Fast Charge: \$50,000 - \$80,000 per port

Volume & Incentives

Segment	Port Count
Workplace (incl. municipal, schools, corporate)	1,800
Multi-unit dwellings (apartment, condo)	1,600
Fast charging	100
TOTAL	3,500

- **Segment Distribution:** Potential count of ports by segment (illustrative only)
- **Incentives:** \$1-5k based on segment, cost-share potential, low income (higher incentive for Fast Charge)
- **Revenue Margin:** \$1.3M/year after buildout, under current conditions
- **GHG Benefit:** 60M+ e-miles/year starting 2024, 40M+ lbs CO2e/year

Primary Customers/Channels

- San Mateo School Districts & Community Colleges
- Large Low Income Apartments
- Large Multi Unit Dwelling (MUDs) Complexes & Associations
- Corporate & Commercial Campuses
- Religious institutions, community centers, government & NGOs (workplace + local MUD)
- Small MUDs & Workplaces

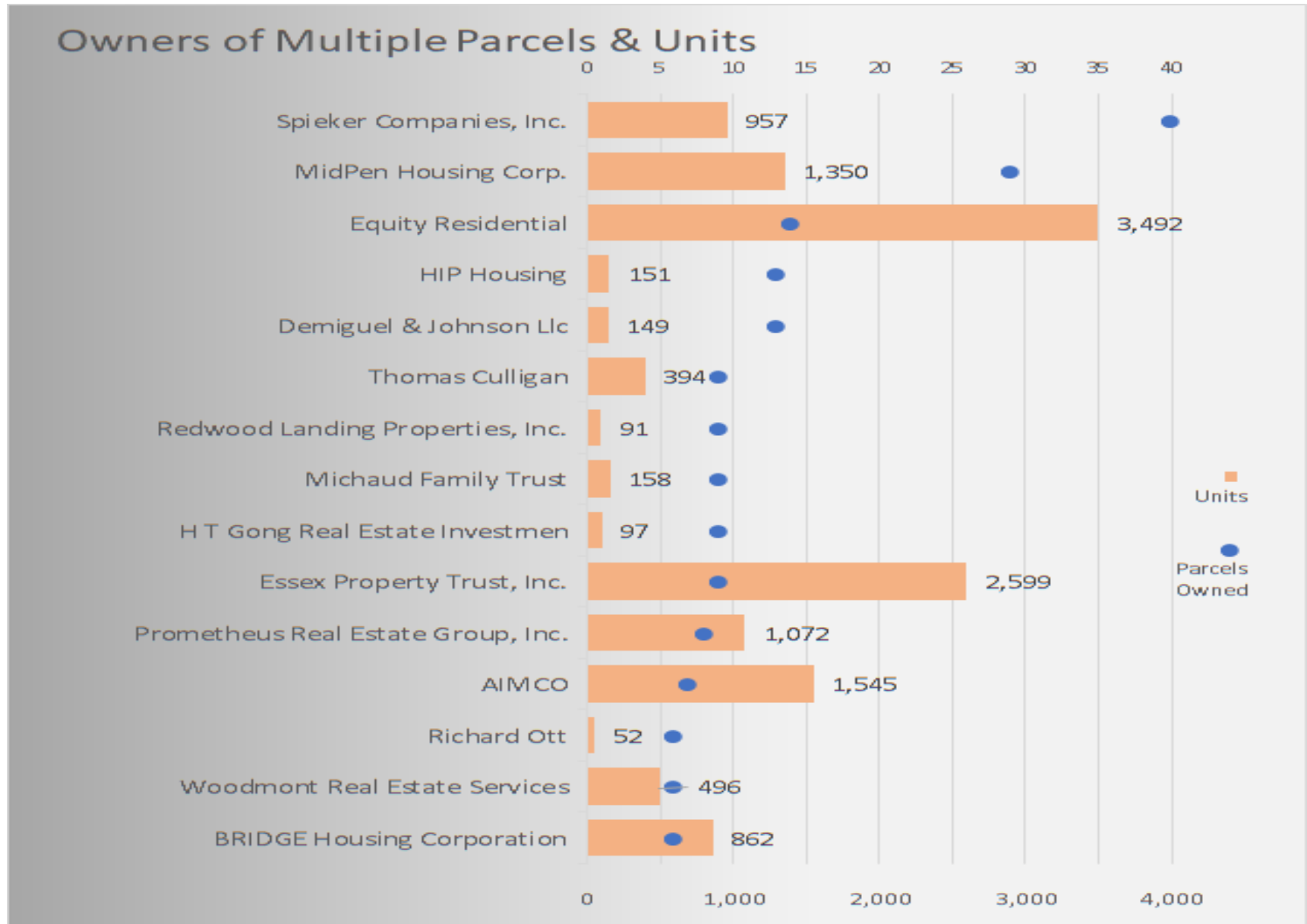
Specific PCE funding will vary by market segment, co-funding, population served and other factors.

Channel Example: Schools

- “Apple Pie” Customer
- Distributed Across Territory
- High Visibility Customer
- Low Acquisition Cost
- Existing “EV Ambassador” Pool
- Potential for Adjacent Apartment and Other Residential Use



Channel Example: Apartments



Timing

Approval demonstrates “shovel ready” sites for upcoming CEC, Electrify America Phase 2 & other funding:

- PG&E Charge-Network participation (first come/first served, 7,500 port limit)
- California Energy Commission 2020
- Electrify America opportunities (Schools, turnkey installs, 2-10 chargers/site)
- BAAQMD funding

PCE Programs: Overall Funds

	Funds in Thousands				
	FY18	FY19	FY20	FY21	FY22
Budget					
(June 2018 forecast)	\$ 4,000	\$ 6,000	\$ 8,000	\$ 10,000	\$ 12,000
Allocated Funds (below)	\$ -	\$ 1,610	\$ 5,730	\$ 5,530	\$ 5,200
Remaining Balance	\$ 4,000	\$ 4,390	\$ 2,270	\$ 4,470	\$ 6,800
Program					
EV Infrastructure Incentive			\$ 4,000	\$ 4,000	\$ 4,000
Curbside/MUD Pilot		\$ 330	\$ 330	\$ 330	
2018 New EV Promotion					
Program (assumed to repeat)		\$ 165	\$ 250	\$ 250	\$ 250
Ride & Drive EV Marketing		\$ 60	\$ 250	\$ 250	\$ 250
Low-Inc EV Incentive					
(assumed to repeat)		\$ 200	\$ 200	\$ 200	\$ 200
New Building Reach Codes & Climate Action Plans		\$ 375	\$ 200		
Community Pilots & Other					
(assumed to repeat)		\$ 480	\$ 500	\$ 500	\$ 500

Next Steps

- Detailed program development
- Engage co-funders: CEC, PG&E, AQMD, VW
- Develop execution partnerships

Regular Agenda

- 8. Review 2019 Electronic Vehicle EV
Ride & Drive Marketing Program
expending up to \$750,000 over the
course of 3 years (Fiscal Year 2019-
2020 through Fiscal Year 2022-2023)
(Discussion)**

EV Ride & Drive Marketing Program

December 20, 2018



2018 Outcomes

- Importance of direct experience
 - Navigant: >50% of those likely to adopt have ridden an EV
 - Event surveys: 12% adoption rate
- 2018 program
 - 5 events
 - 1057 experiences
- Remaining items
 - One event
 - Follow-on surveys



2019 Program

- Scale up program
 - Increase the number of participants
 - Engage a broader community
 - Maximize visibility of EVs and adopters
- RFP released December 10th
- Requires a minimum of 10 events
- \$100,000 – 250,000 based on number of events
- Renewable up to 3 years

Regular Agenda

9. Approve Revisions to PCE's Strategic Goals (Action)

Regular Agenda

10. Authorize an adjustment in Peninsula Clean Energy's (PCE's) rates in the first quarter of 2019 to maintain a 5% discount in generation charges compared to PG&E (Action)

PCE 2019 Rate Adjustment

December 20, 2018

Leslie Brown
Director of Customer Care



PCE 2019 Rate Adjustment Timeline

- June 2018: PG&E files 2019 Energy Resource Recovery Account (ERRA) Application with projected revenue requirements
- August 2018: PG&E files Annual Electric True-up (AET) with projected 2019 rates based on updates to date from June data
- November 2018: PG&E files ERRA update with revenue adjustments. Preliminary analysis indicates more adjustments coming before final Gen rates will be set.

PCE 2019 Rate Adjustment

- PCIA increasing (in flux)
- PG&E Generation rates still in flux between ERRRA updates and December AET
- Allocations between rate classes is changing
- PCE is committed to maintaining a 5% discount in 2019

PCE 2019 Rate Adjustment

- How Does PCE Currently Calculate Rates?
 - PG&E Generation Rate x 95%
 - Subtract PCIA
 - Subtract FFS
 - Result = PCE Rate

PCE Generation Savings = 5%

PCE 2019 Rate Adjustment

- Action requested tonight:
 - Authorize staff to make adjustments in PCE's rates in 2019 to maintain a 5% discount in generation charges compared to PG&E

Regular Agenda

11. Board Members' Reports (Discussion)

Regular Agenda

Adjourn