



Peninsula Clean Energy Board of Directors Meeting

March 25, 2021

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)

Today's Updates

- Staffing Updates
- CPUC Certification of Amended PCE Implementation Plan
- CC Power Board meeting
- CalCCA bill: SB 612
- Upcoming PCE meetings

Staffing Update

- Tj Carter is leaving PCE on April 16 and moving to ReThink Waste on April 19



Open Positions:

- Energy Contracts Manager
- Los Banos Community Outreach Specialist/Manager
- Senior Legislative Analyst; Legislative Analyst

CPUC Certification

- Amended PCE Implementation Plan submitted in December
- Enroll Los Banos in 2022 as new member of PCE



CC Power Board Meeting

- Second board meeting held on March 17
- Notes from that meeting are in your agenda packet
- Policy discussion
 - LDES project
 - CC Power
 - Next steps

SB 612

- SB 612, introduced by Senator Portantino, sponsored by CalCCA
 - 10 co-authors, including Senators Becker and Wiener, and Assembly Members Berman and Mullin
 - PCE submitted letter of support
 - Next step:
 - PCE member jurisdictions to submit letters of support

SB 67 and SB 68

- SB 67: 24/7 Clean Energy Standard
- SB 68: Reducing Electrification Barriers

Upcoming Meetings

These meetings will continue to be held by video/teleconference

- Citizens Advisory Committee:
 - April 8 at 6:30 p.m.
- Executive Committee:
 - April 12 at 8:00 a.m. or 10:00 a.m. depending on Consent vote on meeting change this evening
- Board of Directors:
 - April 22 at 6:30 p.m.



Regular Agenda

3. Citizens Advisory Committee Report (Discussion)

Regular Agenda

4. Appointments to the Executive Committee and other Standing Committees (Action)

Regular Agenda

5. Approve Revised Policy 16 – Selection of the Chair and Vice Chair and appointment to the Executive Committee and other standing Board Committees (Action)

Regular Agenda

6. Authorization to Adjust PCE Rates in Response to March 1 2021 PG&E Rate Changes (Action)



Proposed Rate Change

Board of Directors Meeting March 25, 2021

Current PCE Rate Making Methodology

(PG&E Generation Rate * 0.95) – PCIA –FFS

= PCE ECOplus Rate

March 1, 2021 PG&E Rate Change

- PG&E implemented its second rate change of 2021 on March 1st
- PCIA fees **increased** by 8% and PG&E Generation rates **increased** by a weighted average of 1.8%
- The Generation rate increase was lower than we were anticipating – when combined with the 8% PCIA, pushes PCE rates further downward
- Staff proposes that PCE rates are decreased to back in alignment with our 5% discount value proposition by lowering the ECOPlus Generation rates by an average of 2.8%

Additional Rate Changes in March 2021 Update

- PG&E will be transitioning all remaining eligible C&I customers over to the “B” rates throughout March
 - Aligns TOU peak hours to 4pm-9pm
- A handful of C&I NEM customers will remain on the legacy “A” and “E” rates (~340 customers)
 - PG&E implemented changes to the Peak/Off-Peak Rates in the legacy rates-flattening out the cost differentials to more closely mirror the new “B” rates
 - PCE staff conducting some additional outreach to Strategic Accounts regarding this change

Staff Recommendation

- Staff recommends that the Board authorize rate adjustments to PCE ECOplus rates to continue with the net 5% discount value proposition
- If approved, new rates are expected to go into effect April 1, 2021

Regular Agenda

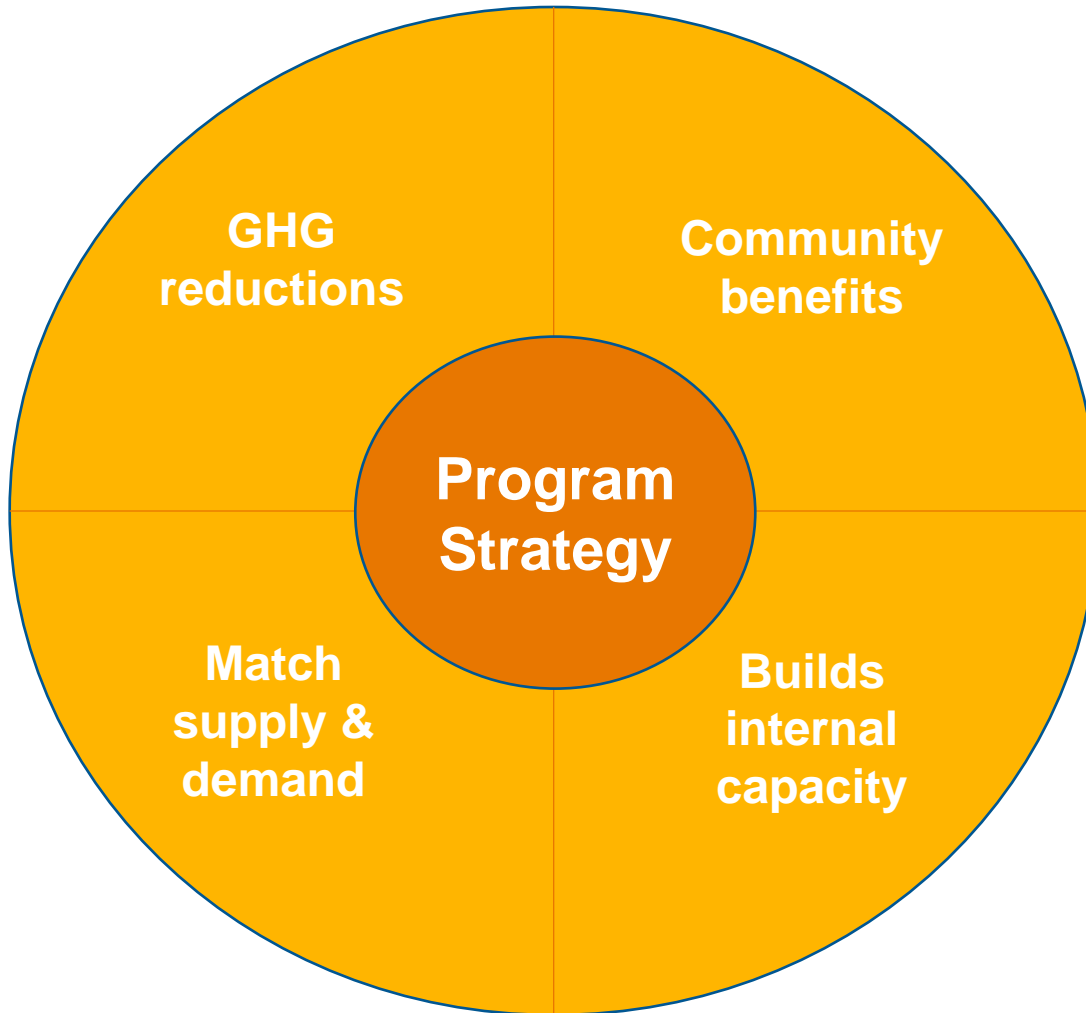
7. Review Programs Accomplishments (Discussion)

Programs Accomplishments

March 2021



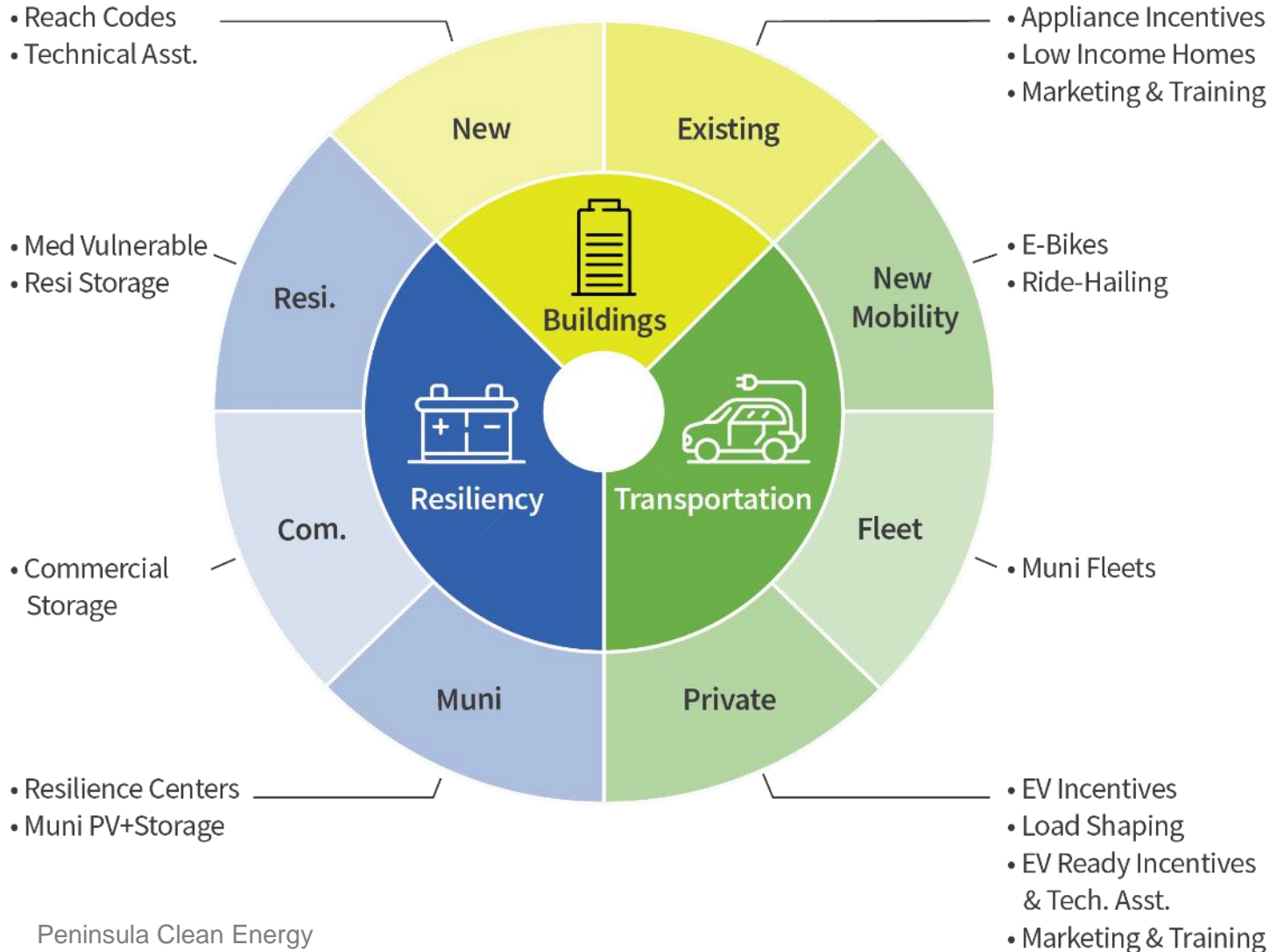
Program Objectives



Levers

- Influence Individual Decisions
- Propagate Innovation
- Shape Policy

Programs Portfolio



Budget

- Buildings & Transportation: \$28.2M forecast FY21-24
- 60% for transportation
- Pilot projects

Additional Focus

- Systems
- Roadmap & metrics
- Additional funds

San Mateo County Emissions (draft)

	Total Emissions (MT CO ₂ e)	Electricity Generation	PCE Supply
2015	5.2 million*	15%	n/a
2019	4.1 million*	6.4%	90% GHG-free
2021	TBD	~2.5%	100% GHG-free

* Methodologies for calculation may differ

Outcomes



Outcomes Summary

Metric	Outcome
Reach Codes	11 in San Mateo Co , 11 in SVCE adopted <ul style="list-style-type: none">• Half of the 42 adopted state-wide, catalyzed EBCE and San Luis Obispo• Supporting existing building code development @Menlo Park
	Tech assist. & training: >30 projects, >120 developers, 17 contractors
EV Charging	>3,200 ports applied for incentives
	Tech assist: >85 customer projects
Electric Vehicles	Incentives: 474 total (incl. 93 low-inc used)
	Consumer preference: >+10%
Innovation Pilots	6 in-progress
Leadership & Policy	<ul style="list-style-type: none">• PCE is “go-to” resource on EVs for CPUC, AQMD and CCAs• Influence: CPUC Transportation Framework, 2022 CA EV Code

Reach Codes

Program

- Timeframe: CY19-ongoing
- Budget: \$850,000 (PCE cost)
- Includes:
 - Model codes for low-carbon buildings & EV readiness
 - Assistance & training for agencies, developers, contractors
 - Grants for agencies
 - SVCE partnership

Outcomes Summary

- Most ambitious reach code effort in US
- Major innovation in building and EV codes
- Est. 8,500 MT CO₂e per year benefit



Adoption in San Mateo County

Member Agency	Reach Code Status	Building (proposed)	EV
Brisbane	Adopted	All-electric w/ exceptions	MUD 1xL2/ unit
Burlingame	Adopted	All-electric w/ exceptions	PCE model code (variant)
East Palo Alto	Adopted	All-electric w/ exceptions	PCE model code (variant)
Millbrae	Adopted	All-electric w/ exceptions	PCE model code (variant)
Menlo Park	Adopted	All-electric w/ exceptions	(existing EV code)
Pacifica	Adopted	All-electric w/ exceptions	(existing EV code)
County of San Mateo	Adopted	All-electric w/ exceptions	PCE model code
Redwood City	Adopted	All-electric w/ exceptions	PCE model code
San Mateo	Adopted	All-electric w/ exceptions (updated)	Increase EV capable
San Carlos	Adopted	All-electric w/ exceptions (updated)	PCE model code
Colma	Adopted	Prewiring required	Increase EV capable
Portola Valley	1 st reading TBD	(All-electric w/ exceptions)	(existing EV code)
Atherton, Belmont, Daly City, South SF	Scheduling study session		
Foster City, Half Moon Bay, Hillsborough, San Bruno	Letter of Intent, Staff discussions or Council briefing done		
Woodside	Declined		

EV Charging

Program

- Timeframe: CY20-24
- Budget: \$16 million PCE + \$12 million CEC
- Includes:
 - Target: 3,500 ports
 - Advanced technical assistance
 - Workforce training

Outcomes Summary

- Attracted additional \$12 million from CEC
- 3,200 ports applied for incentives (as of March 2021)
- >85 customer projects receive tech asst.



EV Charging

- Developed advanced design guidelines
- Preferred contractor network with IBEW
- Negotiated pricing for equipment
- Scaled deployment scopes
- Assistance for sites to secure incentives (PCE, CALeVIP, BAAQMD, other)

San Mateo Apartments Example (17 ports)

Approach	Ports	Total Cost	Per Port Cost
PCE	2 L2 + 15 L1	\$90,600	\$5,300
Typical	17 L2	\$251,500+	\$14,800

Legend

- ◆ EVSE ◆ Future EVSE
- Power Future EV space
- New Non-exclusive ADA/EV space
- New Exclusive ADA EV space
- New EV space
- L1 outlet



EV Incentives & Marketing

Program

- Timeframe: CY18-24
- Budget: \$2.6 million
- Includes:
 - Incentives for new EVs
 - EV test drives & events

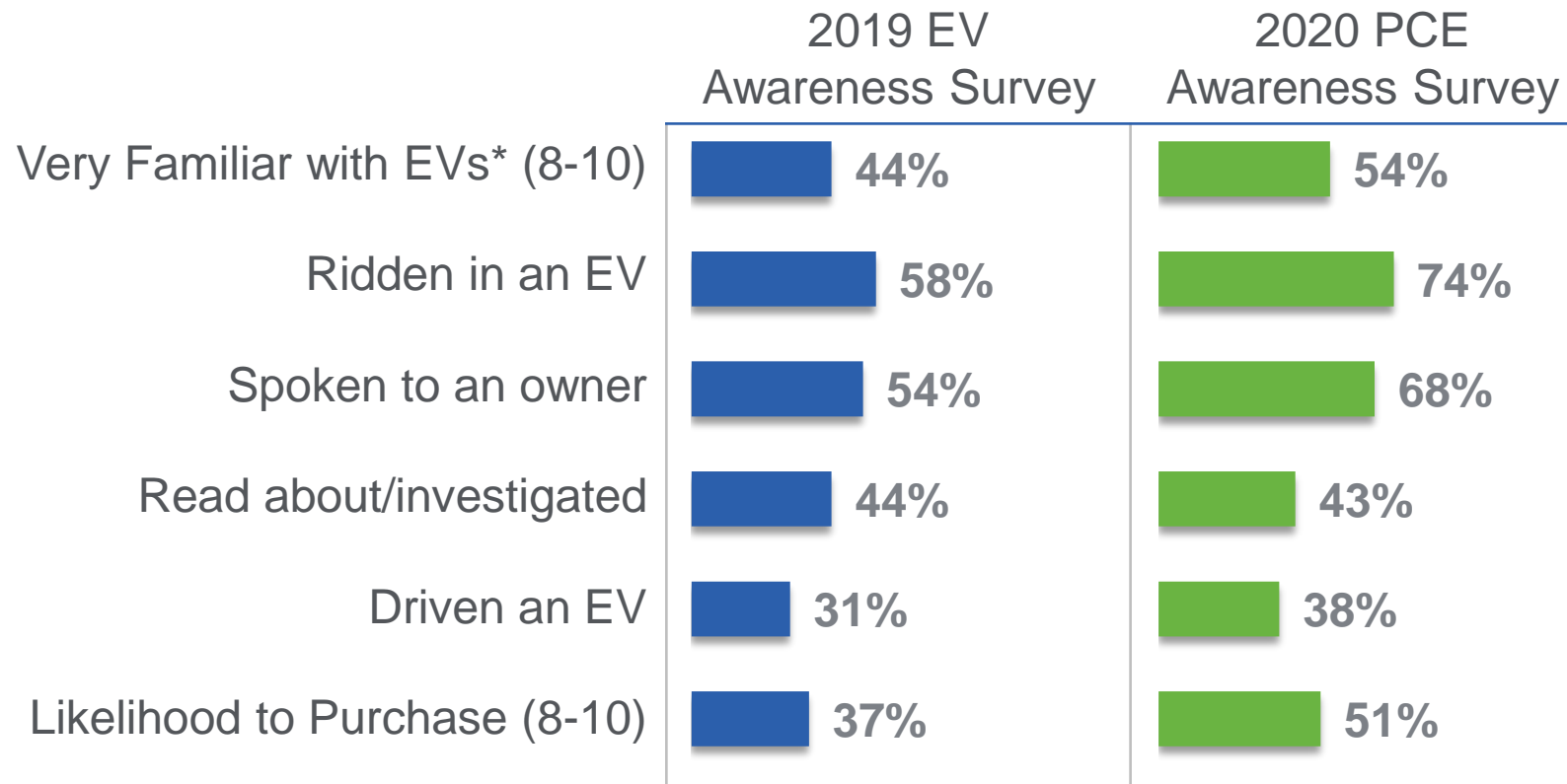
Outcomes Summary

- Spent \$1 million
- 474 total vehicles incentivized
 - 93 low-income used EVs
- 16 events, 1,598 participants



Community Influence - EVs

Direct comparison is not advisable given the different methods of data collection and screening criteria. That said, it appears most measures have improved directionally from the previous year.



Peninsula Clean Energy. Any type, including BEV, PHEV and HEV. The 2019 survey was filtered to include only *non* owners. The 2020 survey included owners but was filtered to include only licensed drivers who are vehicle decision-makers.

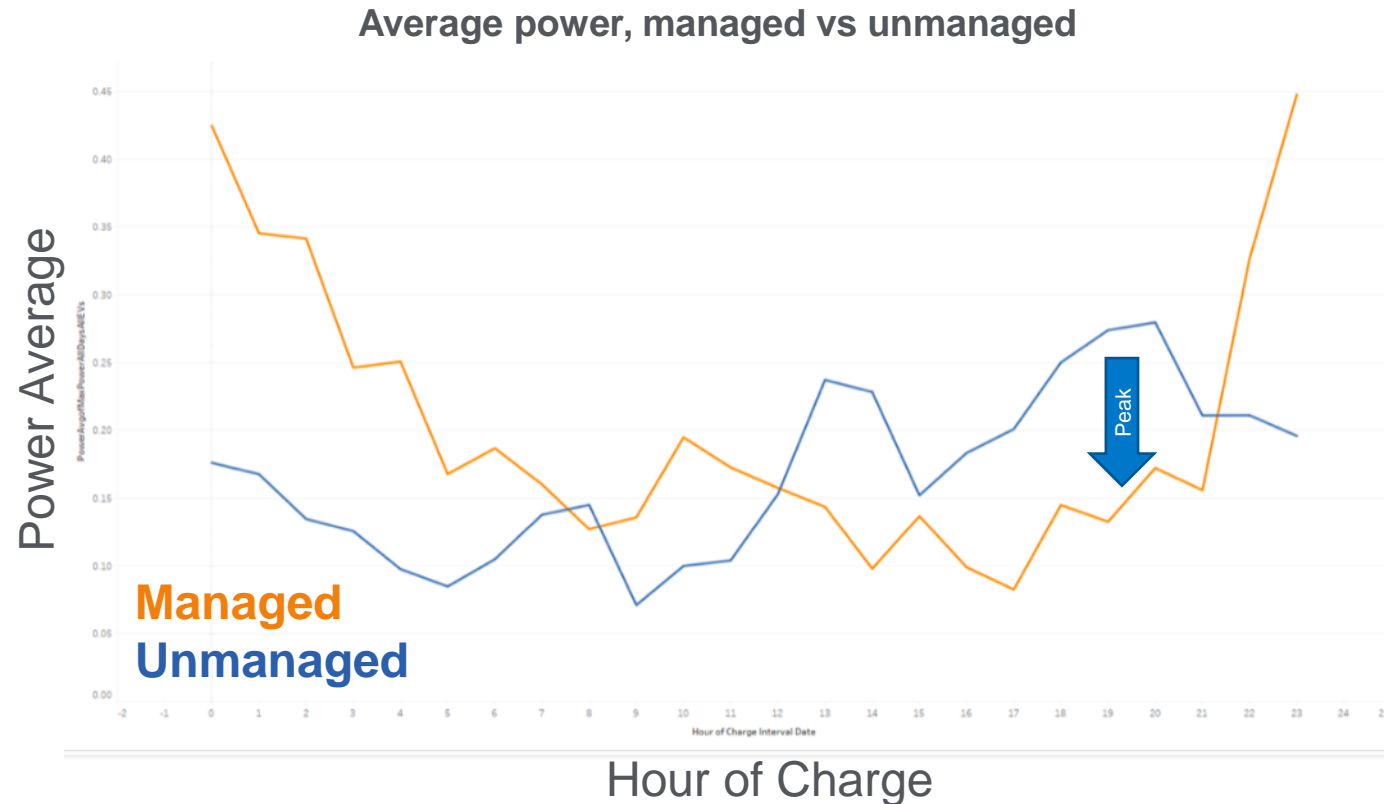
Pilots: Low Power & Managed Charging

- **Objectives:** Research & demonstrate low-cost charging alternatives
- **Timeframe:** CY18-24
- **Budget:** \$300,000
- **Results**
 - Business requirements (property owner interviews)
 - Technology assessments (charging tech & panels)
 - Recruited properties for pilot installation
 - Installing 13 ports
 - Completed cost comparison
 - \$4,500/port including smart outlet
 - 25% of Level 2 (est. ~\$20,000/port)



Pilots: EV Managed Charging (Phase 1)

- **Objectives:** Technical feasibility trial for vehicle based managed charging
- **Timeframe:** CY19-20
- **Budget:** \$35,000
- **Results**
 - Data integration with Tesla
 - LCFS verification
 - 50% load shift demonstrated

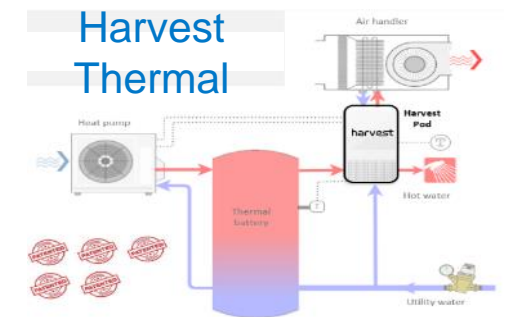


Launching/In Development

- **Existing Building Incentives**
 - \$4.8 million
 - 1200 water heaters
 - 200 low-income home upgrades
- **Fleet Assistance & V2B Pilot**
 - \$900,000 / 3 years
 - Fleet technical assistance
 - Initial pilot of EVs powering muni facility
- **Curbside Charging**
 - \$100,000
 - Feasibility study
- **Ride-hailing Electrification**
 - \$500,000
 - 100 EVs with Lyft, *First in California*
- **E-Bikes**
 - \$300,000
 - 300 e-bikes for low-income
- **Advanced Space & Water Heating**
 - \$350,000
 - Novel technology install & evaluation



Lyft promises switch to 100% electric vehicles by 2030



Leadership & Policy

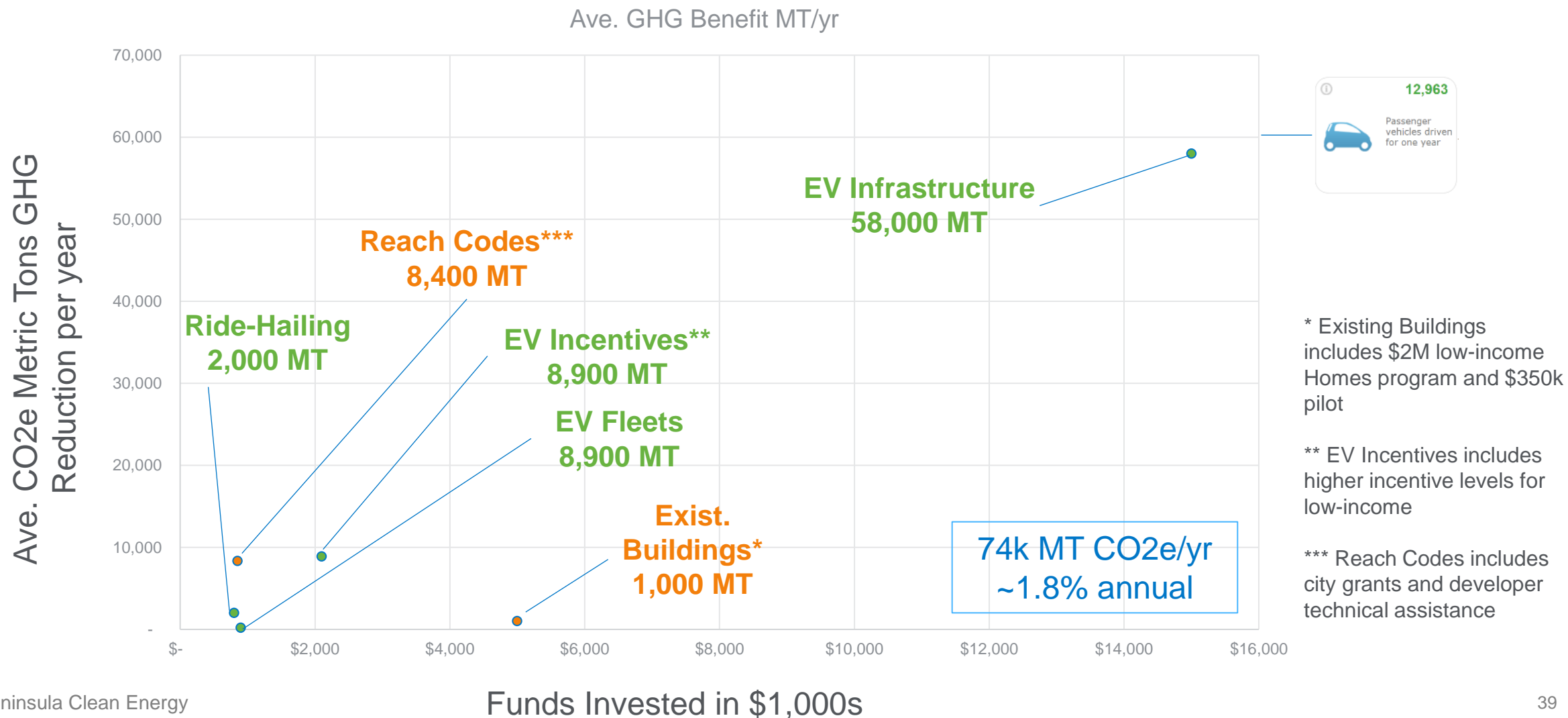
- Organizing role with CCAs
- A leading voice in EV strategy
- Chairing SEPA Fleet Working Group and EV Coordinating Council
- Actively solicited by CPUC, CEC, Air District and others
 - Unique filings on CPUC Transportation Electrification Framework
 - Led comments on CALGreen 2022 with BAAQMD and CCAs
 - Led comments on CEC block grants
 - Led comments on VW mitigation fund
 - Invited to speak at CPUC “vehicle-grid integration” (VGI) workshop

Sustainable Workforce

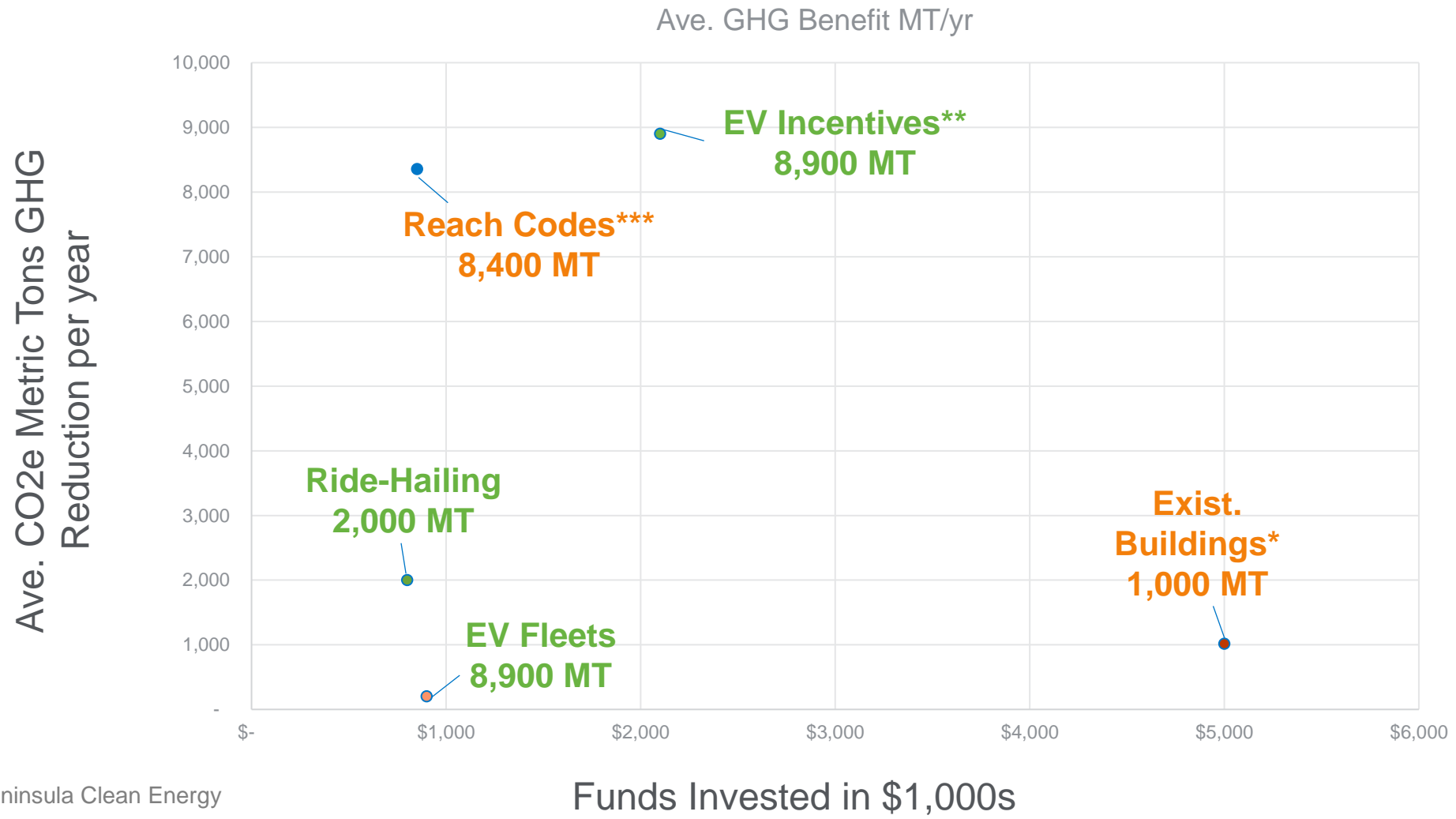
- Union requirement on dedicated PCE incentive fund for EV charging
- Successfully secured CEC commitment to utilize EVITP
- Low-Income Home Upgrade to use union workers for electrification



Attributable GHG reductions & costs for past spend and approved budget in the current budget forecast



Attributable GHG reductions & costs for past spend and approved budget in the current budget forecast (detail)



* Existing Buildings includes \$2M low-income Homes program and \$350k pilot

** EV Incentives includes higher incentive levels for low-income

*** Reach Codes includes city grants and developer technical assistance

Regular Agenda

8. Review of the Schools Engagement Programs (Discussion)



Schools Engagement Update

Tj Carter

Marketing Specialist

tcarter@peninsulacleanenergy.com

Engaging Schools in Clean Energy

Peninsula Clean Energy funds programs with local partners to expand environmental literacy in San Mateo County. We focus on programs that:

- Increase understanding of electricity content, usage, conservation and carbon emissions reduction
- Equip students (and their parents) with an understanding of their electric bill
- Increase understanding of Peninsula Clean Energy
- Encourage participation in our energy programs



Completed Environmental Literacy Programs

Energy Dashboard Pilot

Launched in 2019, San Carlos School District completed their Energy Dashboard project in 2020. The Dashboard visually displays utility usage data including waste, water, and energy.



The screenshot displays the 'Energy in San Mateo County' dashboard. At the top, a wind turbine icon is shown against an orange background. Below this, the title 'Energy in San Mateo County' is centered. A section titled 'HOW IT WORKS' features a diagram showing the flow from 'Electricity Generation' (Peninsula Clean Energy) to 'Electricity Delivery' (PG&E) to 'Customer' (You). Text below explains that the energy system is composed of these two key organizations. To the right, a 'GENERAL OVERVIEW' section discusses energy demand as an indicator of an organization's ecological footprint and the impact of non-renewable energy on greenhouse gas emissions. Below this, a section titled 'PCE and PG&E in San Mateo County' explains the community choice energy (CCE) program and the roles of Peninsula Clean Energy and PG&E. At the bottom, a section titled 'Electricity and Natural Gas Units and Terminology' defines units like watt, kilowatt-hour (kWh), and therm. The dashboard has a dark blue footer with icons for 'Sustainability Overview', 'Energy', 'Water', 'Waste', and 'Facilities'.

Energy in San Mateo County

HOW IT WORKS

Electricity Generation
Peninsula Clean Energy

Electricity Delivery
PG&E

Customer
You

The energy system in San Mateo County is made up of two key organizations: Peninsula Clean Energy (PCE), and Pacific Gas & Electric (PG&E).

ENERGY - GENERAL OVERVIEW

Energy demand is a key indicator of an organization's ecological footprint because its uses vary across the board: heating, lighting, plug loads, cooking, transportation, and much more. The higher the demand for energy, the greater the environmental, social, and economic impacts energy production has.

Energy sourced from non-renewable resources (oil, gas, and coal) increases greenhouse gas emissions (GHGs) which trap heat in the earth's atmosphere causing anthropogenic global warming and climate change. Non-renewable energy consumption has a social justice impact because the most vulnerable populations often live in areas hit first and the hardest by climate change. These populations often live in close proximity to sources of industrial pollution, putting them at higher risk for asthma, cardiovascular respiratory disease, cancer and birth defects. From an economic perspective, the cost of fossil fuel energy sources can be unreliable and vulnerable, putting an organization at risk when prices fluctuate unexpectedly.

Due to these consequences, it is important that schools make a shift to energy that is free of greenhouse gas emissions and sourced from renewables resources while also decreasing their energy demand.

PCE and PG&E in San Mateo County

PCE is a community choice energy (CCE) program, which means it is a locally controlled, community organization that provides customers with a choice of where their energy comes from. PCE sources energy from non-polluting, renewable sources such as solar and wind. They then provide the electricity produced to PG&E for distribution. Through PCE, electricity customers (residential, commercial, or municipal) are given the option to have anywhere from 50% to 100% of their electricity supplied from clean, renewable sources at competitive rates. Click [here](#) to learn more about Peninsula Clean Energy.

PG&E is responsible for the billing of all these services as well as provides the county with natural gas. Once the electricity from PCE is delivered to PG&E, it is distributed to customers across San Mateo County through PG&E's power lines and wires.

Electricity and Natural Gas Units and Terminology

A **watt** is a unit of power that measures electricity - a **watt-hour (Wh)** is a unit of energy that is one watt of power over one hour of time.

A **kilowatt-hour (kWh)** is 1,000 Wh and is used to describe electricity consumption of buildings because Whs are not large enough units of energy.

A **therm (thm)** is another unit of energy that instead measures heat per one hundred cubic feet (CCF) of natural gas.

Sustainability Overview Energy Water Waste Facilities

Current Environmental Literacy Programs

One Planet Schools Challenge

Ongoing awards program that recognizes leaders who are driving environmental and social transformation across their school and greater community.

We provide five \$500 awards for winners to expand project.



Current Environmental Literacy Programs

Youth Climate Ambassadors

Year-long paid fellowship for 9-11th grade students to learn about climate change, implement community projects, and create regional network of leaders.

Our funding provides program stipends for students and mini-grant funds for community energy projects.



Current Environmental Literacy Programs

Energize Colleges

Paid internship program placing community college students with local non-profits and public agencies to implement energy projects, while developing energy career pathways.

We funded a Climate Corp Fellow and 10 interns at the San Mateo County Community College District for 2021.

Partner Host Sites

Menlo Spark (1 intern)

Acterra (2 interns)

Coltura (1 intern)

San Mateo Office of Education (2 interns)

San Mateo Office of Sustainability (1 intern)

El Concilio (1 intern)

Climate Resilient Communities (1 intern)

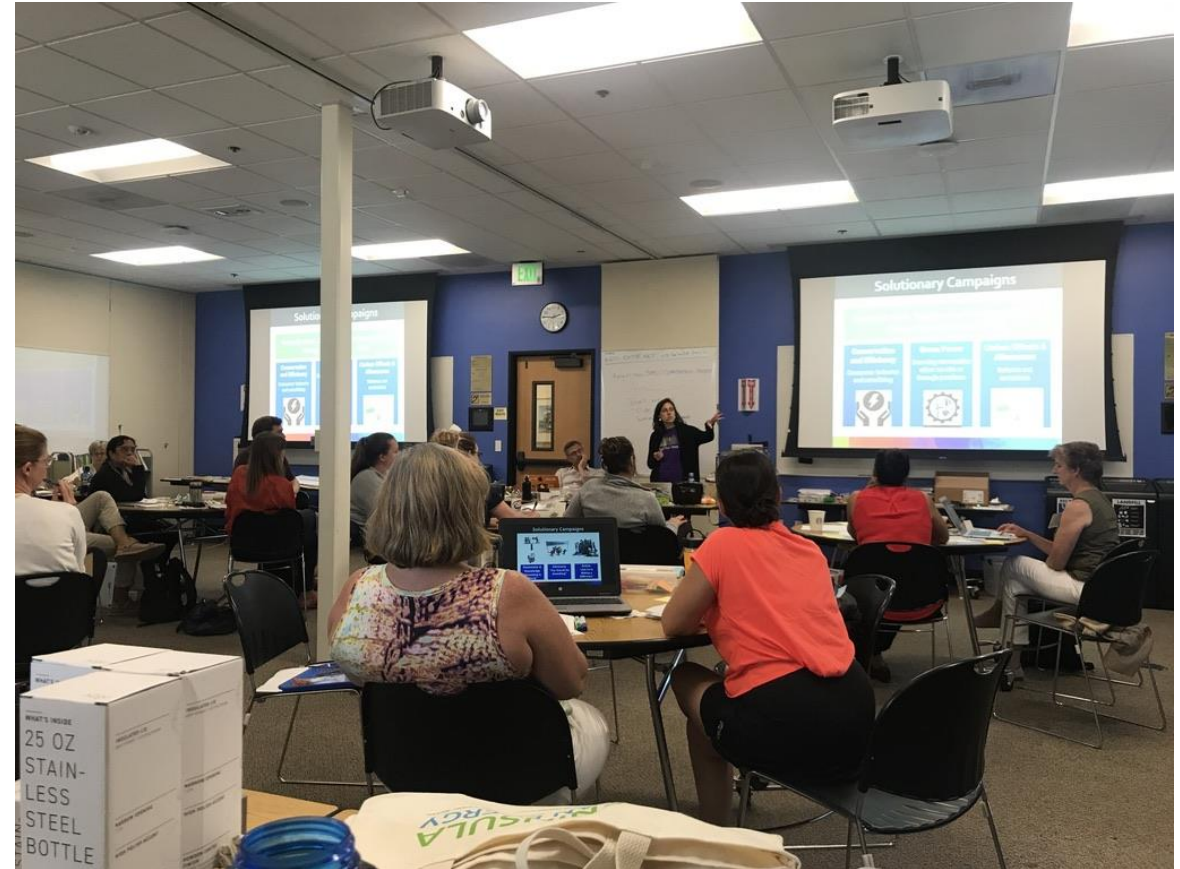
San Mateo County Community College Dist. (1 intern)

Current Environmental Literacy Programs

San Mateo Environmental Learning Collaborative Fellowships (SMELC)

Suite of paid professional development programs for teachers and administrators to expand clean energy awareness in schools.

We have reached 49 teachers, 10 administrators, and over 1,665 students through our SMELC partnership with the Office of Education.



Regular Agenda

9. Board Members' Reports (Discussion)

Regular Agenda

Adjourn