



RICAPS

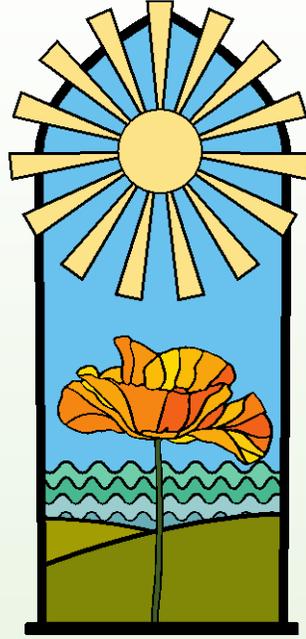
Regionally Integrated Climate Action Planning Suite

Multi-city Working Group
March 24, 2020

RICAPS technical assistance is available through the San Mateo County Energy Watch program, which is funded by California utility customers, administered by Pacific Gas and Electric Company (PG&E) under the auspices of the California Public Utilities Commission and with matching funds provided by C/CAG.

Agenda

- Introductions
- **Faith Organizations and Sustainability Efforts**
 - Liore Milgrom-Gartner, California Interfaith Power & Light
 - Debbie Mytels, Peninsula Interfaith Climate Action Working Group
 - Nancy Grove, Trinity Episcopal Menlo Park
 - Katia Reeves, St. Thomas Aquinas Parish, Palo Alto
 - Hiromi Kelty, City of Palo Alto Utilities
- **Peninsula Clean Energy EV Charging Program**
 - Peter Ambiel, PCE
- Final Announcements



California Interfaith Power & Light

Organizing a faith-based response to climate change since 2000

Faith communities offer:



From caring for our brothers and sisters





To caring for future generations



bit.ly/FaithEnviroStatements

FAITH TRADITIONS ON CARING FOR THE EARTH – compiled by Rachel Clyde – Interfaith Power & Light

Bahá'í

"Anthropogenic climate change is not inevitable; humanity chooses its relationships with the natural world...the current global order has often approached the natural world as a reservoir of material resources to be exploited. The grave consequences of this paradigm have become all too apparent, and more balanced relationships among the peoples of the world and the planet are clearly needed."

-Shared Vision, Shared Volition: Choosing Our Global Future Together

<https://www.bahai.us>

Catholic

"We need a conversation which includes everyone, since the environmental challenge we are undergoing, and its human roots, concern and affect us all. The worldwide ecological movement has already made considerable progress and led to the establishment of numerous organizations committed to raising awareness of these challenges...It is my hope that this Encyclical Letter...can help us to acknowledge the appeal, immensity and urgency of the challenge we face."

-Encyclical Letter *Laudato si'* of the Holy Father

Francis on Care for our Common Home

http://w2.vatican.va/content/francesco/en/encyclicals/documents/papa-francesco_20150524_enciclica-laudato-si.html

Evangelical

"Christians must care about climate change because we love God the Creator and Jesus our Lord, through whom and from whom the creation was made. This is God's world, and any damage that we do to God's world is an offense against God Himself. Christians must care about climate change because we are called to love our neighbors, to do unto others as we

Buddhist

"Our concern is founded on the Buddha's realization of dependent co-arising, which interconnects all things in the universe. Understanding this interconnected causality and the consequences of our actions are critical steps in reducing our environmental impact...through our lack of insight, we are destroying the very life support systems that we and all other living beings depend on for survival."

-Buddhist Climate Change Statement to World Leaders

<http://ebccc.org>

Daoism

"Taoist beliefs emphasize respecting and protecting nature, all in the pursuit of harmony between the human beings and the environment."

-Ren Farong, Former President of the Chinese Daoist Association

<https://www.chinadialogue.net/culture/9669-Taoist-monks-find-new-role-as-environmentalists/en>

Hindu

"Members of the global Hindu community gain urge strong, meaningful action be taken, at both the international and national level, to slow and prevent climate change. Such action must be scientifically credible and historically fair, based on deep reductions in greenhouse gas emissions through a transition away from polluting technologies...We cannot rely on governments alone to act, however. Each one of us has a part to play in reducing climate pollution, by changing our inner and outer behaviour. As Mahatma Gandhi posited, 'If we could change ourselves, the

Baptist

"There is undeniable evidence that the earth--wildlife, water, land and air--can be damaged by human activity, and that people suffer as a result. When this happens, it is especially egregious because creation serves as revelation of God's presence, majesty and provision...we humbly take responsibility for the damage that we have done to God's cosmic revelation and pledge to take an unwavering stand to preserve and protect the creation over which we have been given responsibility by Almighty God."

-A Southern Baptist Declaration on the Environment and Climate Change

<http://www.bpnews.net/27585/full-text-of-sbcci-declaration>

Episcopal

"Scientific research shows that climate change affects nearly all aspects of life...Our goal as Christians is not to ascribe blame but rather to examine our own actions and how they relate to God's will for us and for the created order, and to challenge our communities to a new way of being...we hold a particular responsibility for the changes in practice that will reverse the trajectory of atmospheric warming and safeguard the sanctity of what our God calls 'very good' (Genesis 1).

-Sustaining Hope in the Face of Climate Change

<https://www.episcopalchurch.org/fr/node/100647>

Islam

"In the Islamic point of view, nature is alive. It's conscious. It follows God's laws. And what we're doing is breaking those laws in the name of our

We also have facilities to Green



Parking lots with capacity



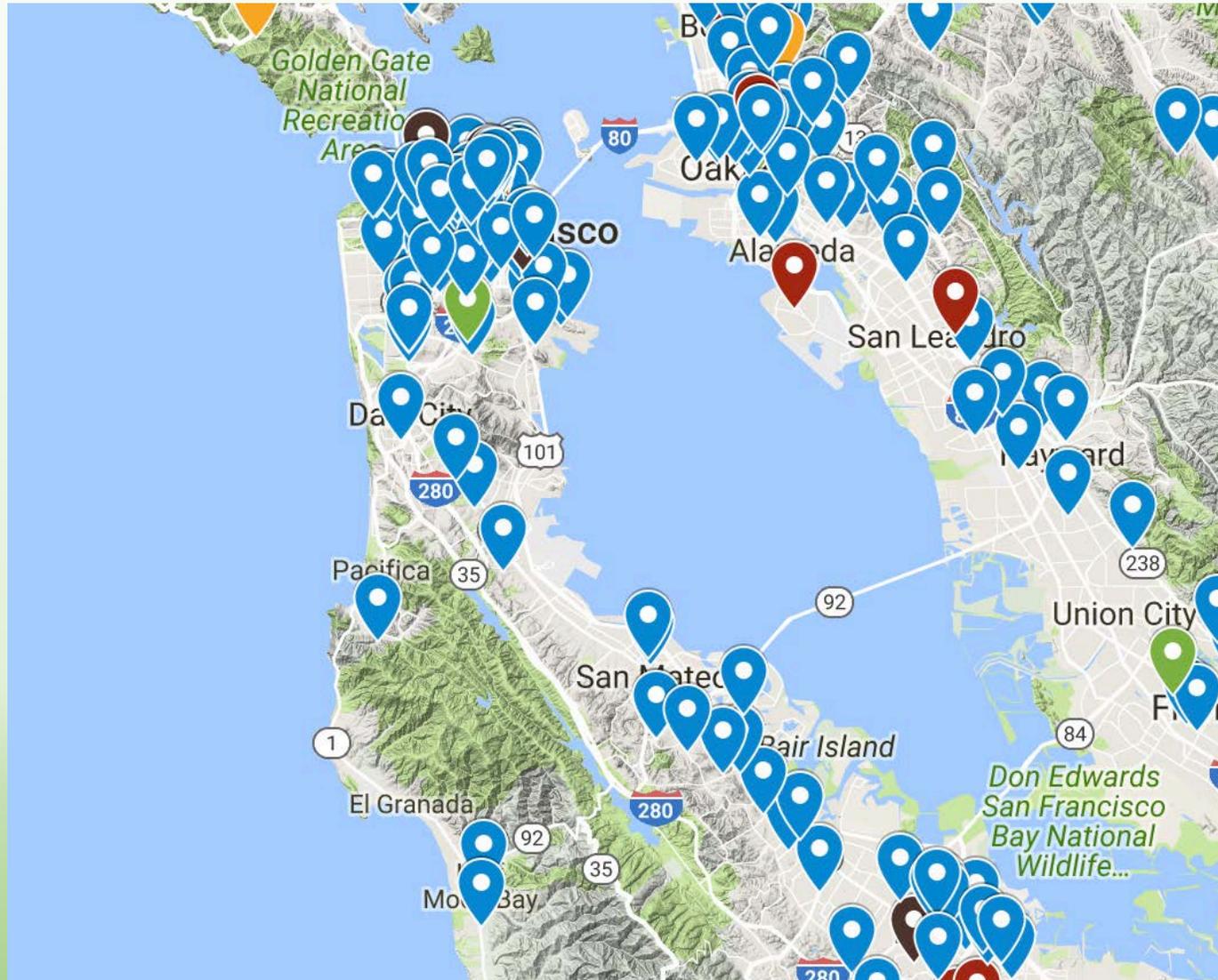


Community spaces for distributed power & storage





700+ Member Congregations



We can't do it alone; we need smart resources

- Upfront capital can be difficult
- Limited technical expertise
- Unique organizational structures
- Range of communication channels

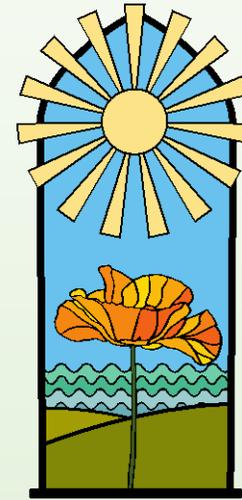


Hope and Action



Thank you!

Liore Milgrom-Gartner
CA Interfaith Power & Light
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California Interfaith
Power & Light

Peninsula Interfaith Climate Action:

An Ally in Protecting Earth's Climate

March 24, 2020 — RICAPS Webinar

Peninsula Interfaith Climate Action

- Started in 2014; meets monthly
- Goal is to share information, educate about climate change & support legislation to reduce GHGs.
- Participants from 15 congregations, San Mateo to Sunnyvale.
- An affiliate of CA Interfaith Power & Light
- Created a local ***“Climate Crisis Resource Guide for Congregations.”***



We Share Information about How to Save Water and Reduce GHGs

PICA's local congregations have changed their facilities:

- 6 have ***rooftop solar panels***
- One has installed large solar array ***over its parking lot***
- Many have ***changed landscaping*** to drought tolerant and/or native plants
- 2 have installed ***EV chargers*** for staff and public
- Some now exploring ***switch from fossil gas systems*** for water & space heaters to all renewable electricity

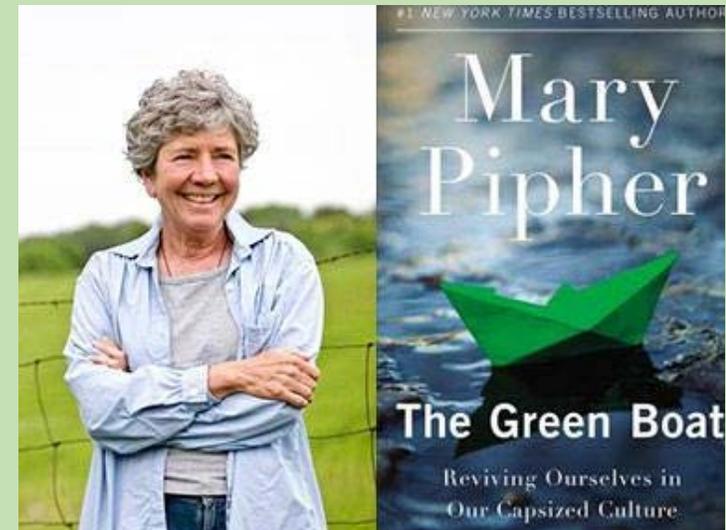


We Educate our Members & the Public about Climate Change



Both PICA and member congregations offer *lectures, films & other programs* to educate our members & the general public about climate change and solutions to this global challenge.

In 2015, PICA and the *Palo Alto City Library* co-sponsored a talk by author Mary Pipher about the spiritual & social benefits of being a climate change activist.



We Speak Out to Support Climate Protection Laws

PICA is a non-profit; we don't support candidates. ***We DO take stands on legislation*** at all levels. We join marches

demanding climate action, speak out

at City Council meetings, get our members to write letters to State legislators, and send postcards to Washington.



What Do Cities and Faith-Based Groups Have in Common?

- Many faith-based groups are shifting their core message from ***belief*** to ***values***
- Cities are staffed by people who ***value public service***
- The common thread is ***concern for something larger*** than oneself – call it “our City” or “Creation” — we ***aim to protect*** our human and natural community
- We want to ***create stronger, resilient bonds*** among ourselves in this time of challenge.

Faith-based networks can help cities publicize sustainability messages

- Some congregations have email “***yahoo groups***” for member-to-member communications
- Some have ***Facebook pages*** that are updated weekly
- Almost all have ***weekly handouts*** distributed at services with space for community announcements
- Almost all have ***bulletin boards*** for city notices

Contact the secretary or clergy member to find out more.

Tips for tapping into these networks

- Start with ***largest congregations***: big buildings, more members, more resources, larger staff
- Look at website: Is there a ***secretary***? A “social action” committee? ***Posted office hours & emails***?
- Make a call or send an email: ***ask about their communications***. How & to whom you should direct your messages?
- Tap into ***your personal friends*** who belong to faith-based groups, too.

***Thanks for Serving Our
Interconnected Web of Life!***

Questions/comments?

Debbie Mytels

Chair, Peninsula Interfaith Climate Action (PICA)

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RICAPS—Partnering with Faith Communities

Trinity Church, Menlo Park Case Study

March 24, 2020

Nancy Grove, Trinity Vestry; Chair, Commission on Creation Care, Episcopal Diocese of
CA

nbgrove102@gmail.com

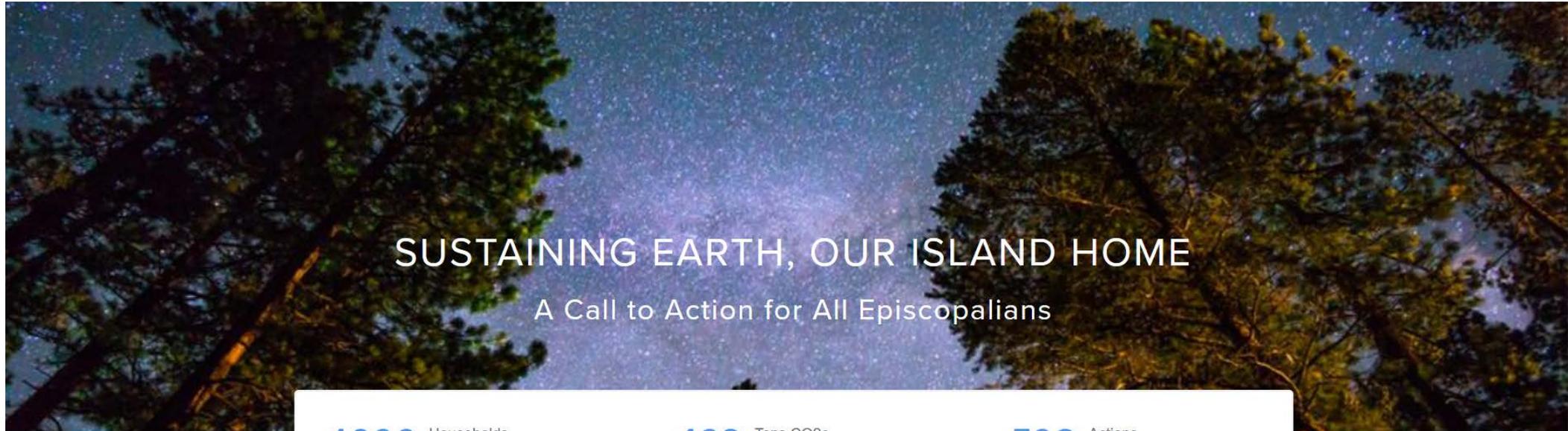
Executive Summary

- Connections between content creators and learners are key--and a challenge.
- Pay attention to community organizing behavior change principles.
- Membership organizations are useful because they provide more opportunities to use behavior change principles...
- ...but if they are organized around another focus than climate change, there is a mindshare problem.
- in these organizations tools to measure behavior change are best embedded in programs that address the "heart, head and feet."
- Local "thought leaders" are key.

Timeline

- 2011: Original Trinity EDEN Commission wins CIPL “Energy Oscar”
-
-
- 3/2018 Episcopal Diocese of CA commences work with Community Climate Solutions on Episcopal Church carbon tracker
- 7/2018 “Sustain Island Home” approved at Episcopal General Convention; rollout through Bay Area begins
- 3/2019 “Reclaiming Eden” program launched at Trinity
- 11/2019 Trinity Vestry approves resolution for campus sustainability initiatives

Sustain Island Home



1336 Households
Participating

468 Tons CO2e
Reduced/Year

592 Actions
Completed

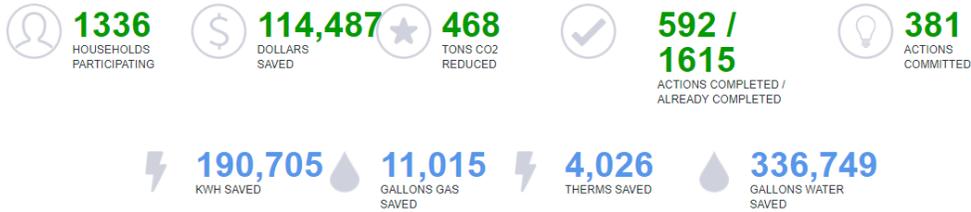
"God so loved *the world* that he gave his only son ..." is not a pious platitude or a simple religious refrain. It is a declaration of God's purpose and mission in the world from the beginning to this very day. "God so loved *the world*." That's not just about us who are human. It's about the whole of God's grand and glorious Creation.

During our church's 2018 General Convention in Austin, Texas, Episcopalians made important promises to care for the world God loved so much. Many of us are keeping that promise this Lent by praying with and taking up the [Episcopal Church's Pledge to Care for](#)

Aggregating our Actions

At the national level

Our Progress



My Diocese

All Diocese

Episcopal Church	Households Participating	Tons CO2e Reduced	Dollars Saved	Actions Committed	Actions Completed	Already Completed	kWh Saved	Gallons Gasoline Saved
Alabama Diocese	5	0	0	1	0	4	0	0
Alaska Diocese	3	0	40	0	1	0	330	0
Albany Diocese	1	0	0	0	0	0	0	0
Arizona Diocese	2	0	0	2	0	13	0	0
Atlanta Diocese	9	3	-120	1	1	0	0	0
Bethlehem Diocese	2	0	0	0	0	0	0	0
California Diocese	402	205	53,624	153	160	778	125,945	4,446
Central Florida Diocese	1	0	0	0	0	0	0	0
Central Pennsylvania	3	0	0	0	0	1	0	0

At the congregational level

Episcopal Church	Households Participating	Tons CO2e Reduced	Dollars Saved	Actions Committed	Actions Completed	Already Completed	kWh Saved	Gallons Gasoline Saved
St. John the Evangelist, SF - San Francisco	4	3	760	2	7	1	440	142
St. John's Episcopal Church, Ross - Ross	3	0	0	0	0	21	0	0
St. John's, Oakland - Oakland	3	0	0	1	0	0	0	0
St. Luke's, SF - San Francisco	1	1	250	0	2	3	0	31
St. Luke's, Walnut Creek - Walnut Creek	1	0	0	0	0	0	0	0
St. Mark's, Berkeley - Berkeley	3	0	0	0	0	0	0	0
St. Marks, Palo Alto - Palo Alto	38	1	-16	24	1	71	0	0
St. Mary the Virgin, SF - San Francisco	2	0	0	0	0	0	0	0
St. Michael and All Angels, Concord - Concord	3	0	0	0	0	0	0	0
St. Paul's, Burlingame - Burlingame	4	0	0	0	0	0	0	0
St. Paul's, Oakland - Oakland	1	0	0	0	0	1	0	0
St. Paul's, Walnut Creek - Walnut Creek	4	0	0	0	0	1	0	0
St. Stephen's, Belvedere - Belvedere	1	0	0	0	0	0	0	0
St. Stephen's, Orinda - Orinda	5	19	-100	0	2	2	0	0
St. Timothy's, Danville - Danville	4	6	28,020	5	1	33	116,742	0
Trinity - Menlo Park	53	75	3,908	20	30	102	682	847
Trinity+St. Peter's, SF - San Francisco	1	0	0	0	0	6	0	0

Reclaiming Eden



Worshipping

- Lenten meditations and questions
- Homilies tie in creation care themes whenever appropriate
- Recognize households participating in the tracker on a regular basis during services
- Special Tenebrae and Earth Sunday services
- Consider Season of Creation liturgical materials for fall

Learning

- The Big Six lecture and activities series
- Climate Facts in bulletins
- Display board in TH
- Videotape lectures and post on website
- Co-market climate action events from nearby Episcopal churches, nonprofits, etc.

Sharing Success

- Publicize Sustain Island Home carbon tracker, with Trinity results, in internal venues (bulletins, email, etc.)
- “Tracker Corner” featuring Help Desk and actions related to the topic covered, at all Big Six events.
- One-two post-church workshops to help people with new version coming in March

Vestry Resolution

1. Opt-up to ECO-100 PCE product for all church electricity purchases.
2. Move to 100% reusable tableware for coffee hours and social events
3. Commit to substituting Fossil Gas-free replacements for all campus appliances and systems when current installations need to be replaced

(February, 2020—Vestry approves expenditure to hire consultant to create all-campus plan involving fuel switching, solar, and storage)



Katia Reeves

Saint Thomas Aquinas Parish, Palo Alto

Saint Thomas Aquinas Parish

Green Committee



Saint Thomas Aquinas Parish

Green Committee

* Our Lady of the Rosary

* Saint Thomas Aquinas

* Saint Albert the Great

Saint Elizabeth Seton School

History

- Green Committee started in 2009
- Reduce parish and parishioners' carbon footprint
- Coordinate efforts with other committees and ministries
- Members of the national Catholic Climate Covenant in Washington DC since 2009
- Members of PICA since its founding
- Work with Diocese of San Jose w/ other parishes

Accomplishments

- Conducted energy audits
- Replaced inefficient appliances
- Optimized thermostats control
- Switched to timers, detect presence & light sensors
- Monitored water use and reduced it in landscape
- Planted trees including palms for Palm Sunday
- Raised funds & installed solar panels at two of the three churches



Solar project
on Parish school roof top completed

Old items exchanged and reused by parishioners



Parish activities raised environmental awareness



Our Parish does zero waste recycling



Some of our parish Green Committee members

How municipalities can help

- Church works through many volunteers
- All kinds of experience and talent
- Decisions are made at multiple layers, sequentially
- Information from cities is crucial for:
 - Rebates (big motivation)
 - Support to conduct energy audits
 - Check lists
 - Road maps (as Palo Alto's EV charger program)
 - Vetted vendors
- **Parishioners take steps as parish does**

Solar Savings

- Installed Solar panels at OLR on Dec 2014
- Have saved \$31,000

- Installed Solar panels at SAG on Dec 2015
- Have saved \$28,000
- **Total for parish \$59,000** to date

- Panels installed by **SunWork** at both sites

Building EV Charging Infrastructure in Palo Alto

March 24, 2020

www.cityofpaloalto/ev

Why Do We Need to Take Action?

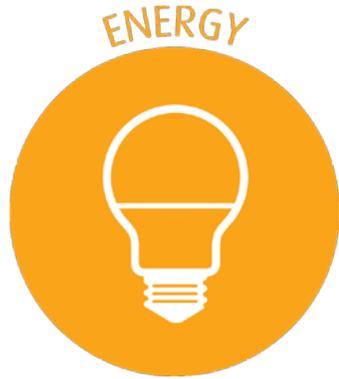
- Cities consume 73% of the world's energy and emit 75% of the greenhouse gases (while occupying only 5% of total land mass)
- Reducing emissions can improve the quality of life in communities
- Land use, buildings, and transportation are largely controlled at the local level



Palo Alto's Sustainability Planning

- Established its first Climate Protection Plan in 2007
- Current Sustainability and Climate Action Plan (S/CAP) is made up of three components:
 1. 80 x 30 Goal
 2. Sustainability and Climate Action Plan Framework
 3. 2018-2020 Sustainability Implementation Plan (SIP)

Proposed Areas for the 2020 S/CAP



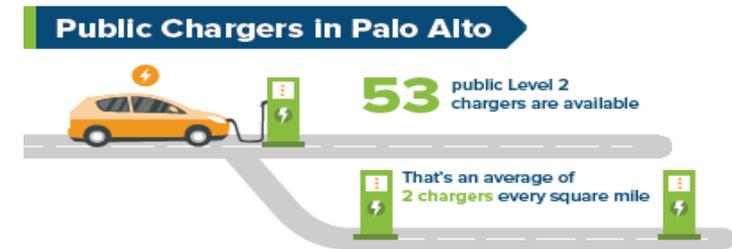
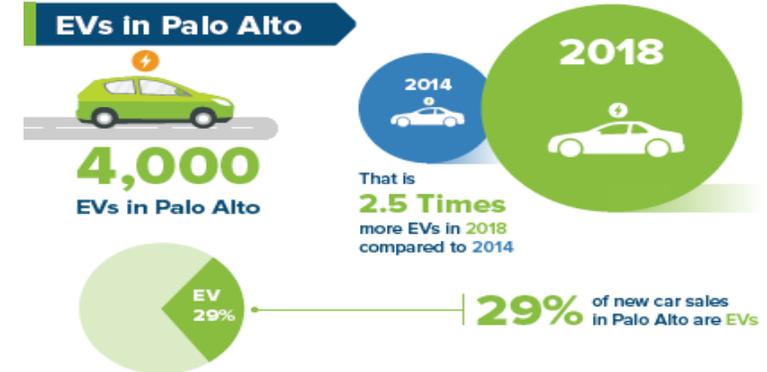
Electric Vehicles: Potential Goals



- ➔ Increase the number of EVs registered in Palo Alto, as a share of total vehicles registered, from 7% in 2018 to 50% by 2030
- ➔ Target to facilitate 50% of vehicles owned by low income households to be EVs by 2030
- ➔ Ensure there are adequate numbers and types of EV chargers in Palo Alto to support the growing number of EVs registered in and commuting to Palo Alto
- ➔ Expand the number of EVs in the City's fleet as the EV fleet market evolves

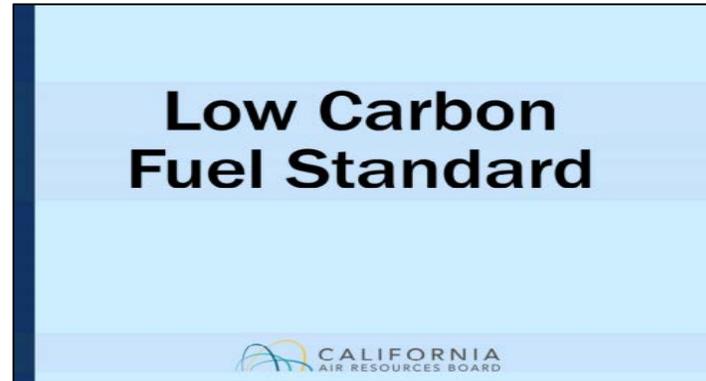
Electric Vehicles: Potential Key Actions

- Ensure that at least 75% of the community is aware of the environmental and economic benefits of electric vehicles and the programs available to them
- By 2022 quantify the public and private EV charger network needed within the community to support 50% EV penetration in Palo Alto, and develop an implementation plan to establish that charging network
- Develop programs to assist and incentivize private EV charging installations in hard to reach locations such as multifamily properties, non-profits, and small commercial sites to ensure adequate and diverse EV charging infrastructure
- By 2022, develop a strategic plan to encourage charging of inbound EVs within Palo Alto
- Continue to electrify municipal fleet as opportunities arise, and by 2021 develop a comprehensive fleet electrification workplan and associated EV charging needs



Funding Sources for Building EV Charging Infrastructure

CARB's LCFS Program



Projected 2019-2022 funding ~\$8M

BAAQMD's Charge! Program



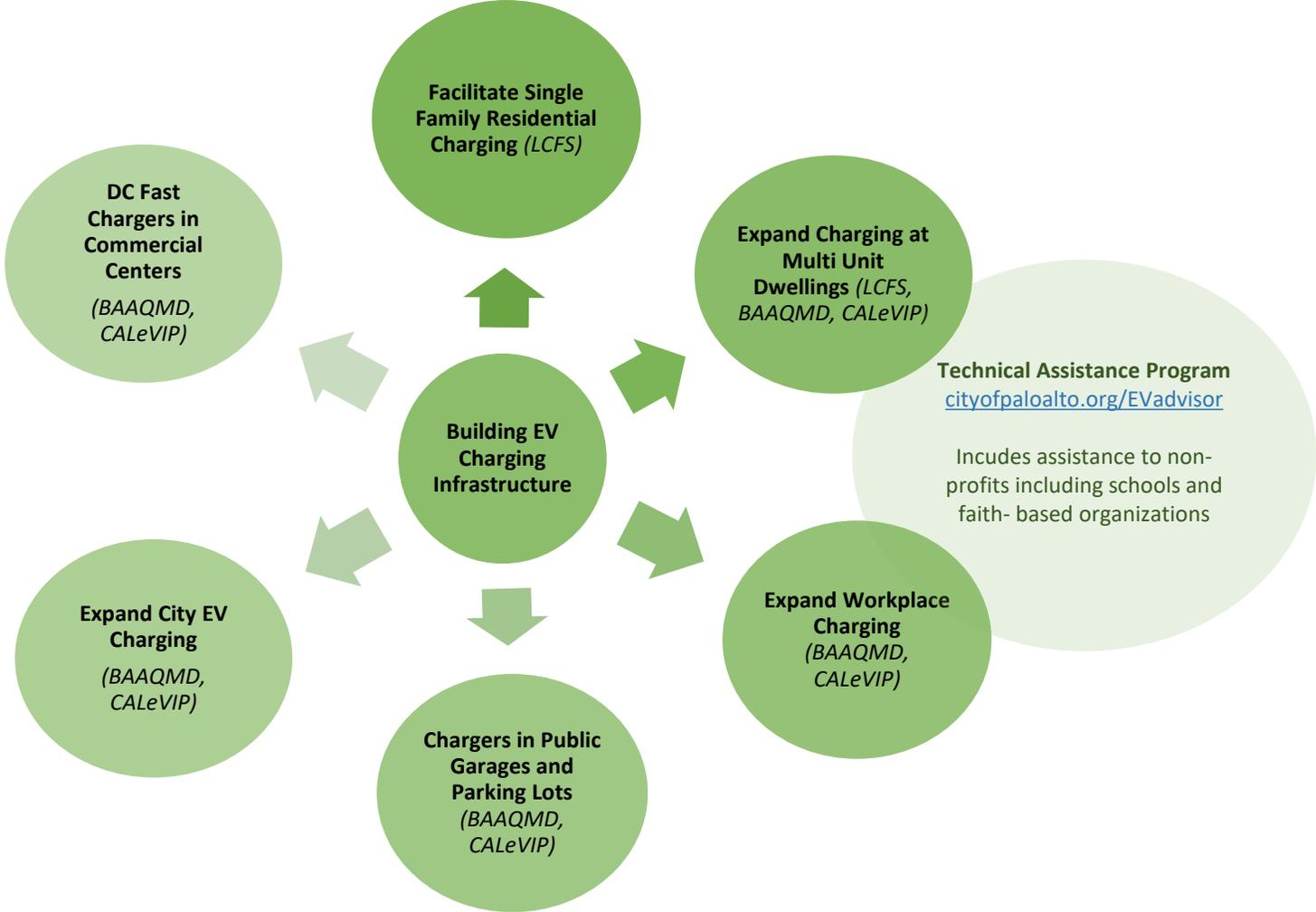
Projected 2020 funding : \$5M

CEC's CALeVIP Program



Grant Funding: \$2M

Strategy to Expand EV Charging Infrastructure



What Have We Learned So Far?

Launched TAP (Technical Assistance Program) in October

- 79 sites have expressed interest in TAP (Technical Assistance Program)
- 26 sites have signed Program Participation Agreements
- 21 sites have completed Technical Site Visits
- Delivered 1 Final Report

Not So Easy to Answer Questions:

CPAU

- Unused electric service capacity?
- Which meter is connected to which transformer?
- Does it make sense for the City of Palo Alto Utilities to upgrade existing transformer(s) or install a new transformer?

Faith Based Organization

- Who is the decision maker?
- Not necessarily experienced in construction projects
- Losing parking space for ADA compliance
- Cashflow
- Future- proofing





CITY OF
PALO ALTO

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EV Ready Program

Program Update
RICAPS Webinar, 03/24/20

Background:

PCE & California Electric Vehicle Incentive Project

PCE Program

1. Approved by the Board December 2018: \$16 million over 4 years to deploy 3,500 ports
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)

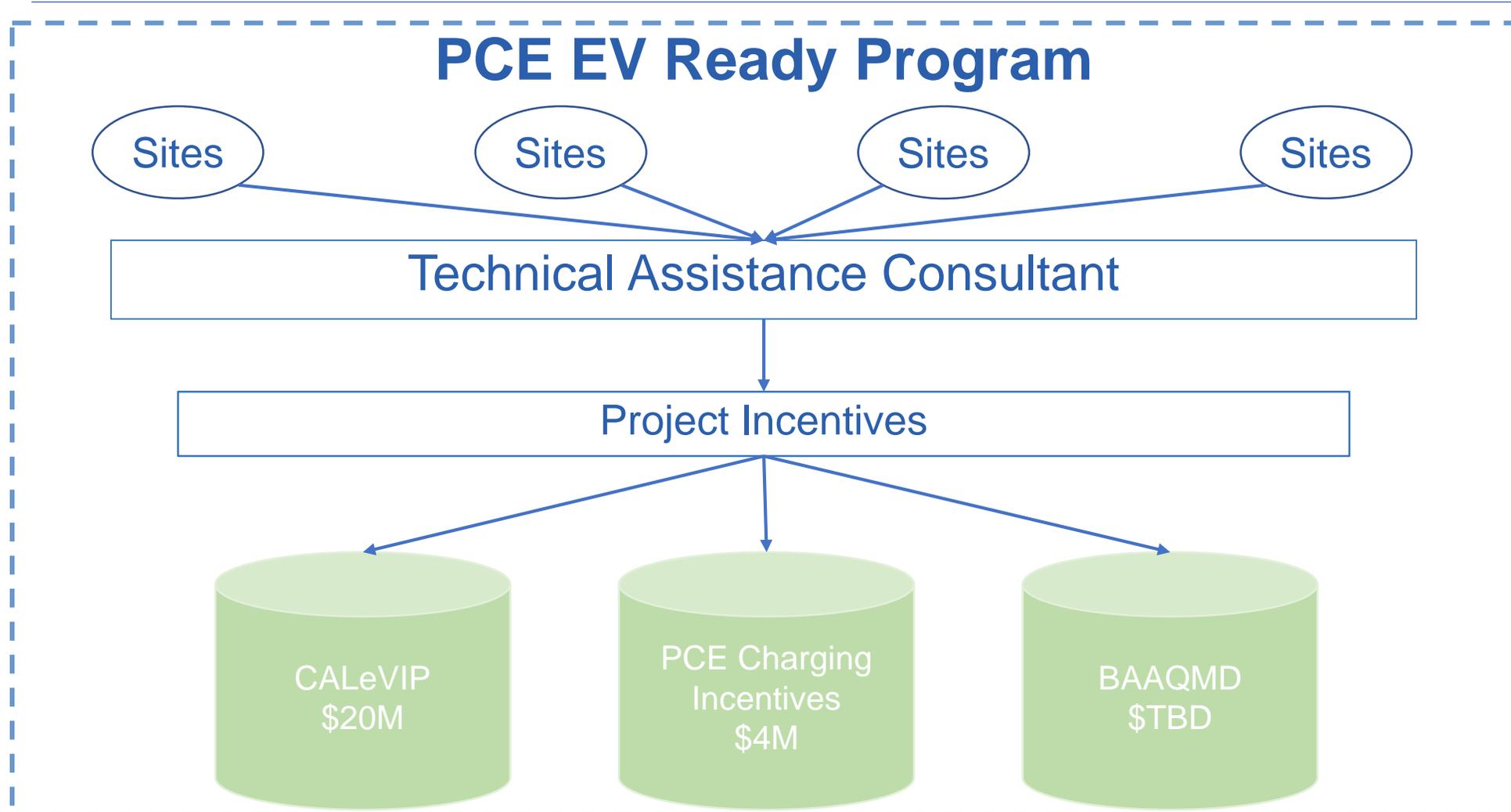
1. CEC-funded EV charging infrastructure incentive program
2. Deployed on county levels with needs-based funding formulas
3. Includes \$12 million from CEC for San Mateo County
4. CALeVIP includes its own rebate administrator: Center for Sustainable Energy
5. PCE places a portion (\$8M) of its incentive funds with CALeVIP as "co-funding" for fast charge and Level 2 charger installations
6. PCE will manage its own separate but complementary program (\$4M) for Level 1 and other needs not covered by CALeVIP



Peninsula-Silicon Valley Project



EV Ready Program Structure



Technical Assistance Overview

Objective: Support EV Charging Incentive Program by providing outreach and up-front technical assistance to facilitate project initiation



Primary Deliverables

- Marketing program to key market segments
- Educating site owners about EV charging benefits and strategies
- Providing expertise regarding best charging type (L1, L2, etc.) for the property
- Delivering an actionable project plan to the site owner and facilitate execution
- Maximize the number of ports for least cost
- Target large workplaces and multi-unit dwellings (>100 parking spaces) at start of program



Technical Assistance Lead CLEAResult

CLEAResult®

800+
active programs

2,500+
current employees

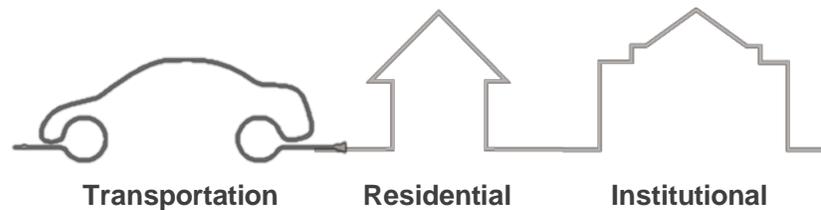
30,000+
contractor partners

\$681M
saved by customers
annually

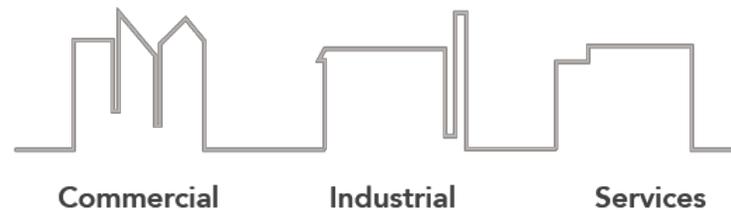
\$38M
saved by LMI
customers annually

5,200+
GWh saved annually

68M+
Therms saved annually



PROGRAM FILING • PLANNING & DESIGN • IMPLEMENTATION • MEASUREMENT & EVALUATION • PILOTS



CALIFORNIA FOCUS



- Four offices
- 80+ local staff
- 20+ programs

Sample Programs:

- PG&E EVCN (subcontractor)
- CPAU Home Efficiency Genie & Multifamily EVSE
- PG&E EnergySmart Grocer
- BayREN Home+

Role of Level 1 Charging

Program Objectives:

Establishing Level 1 as viable and appropriate both for EVs and other e-mobility

Deploy ~1,000 Level 1 ports across the program segments

Level 1 Benefits:

- Minimize project costs
- Enables larger deployments at MUDs and other power constrained locations
- Delivers required range overnight for daily commuting
- Can serve PHEV and other e-mobility options (bikes, scooters, skateboards, mopeds, etc.)

Incentive Offerings - CALeVIP

CALeVIP Site Eligibility

- Level 2: Must shared used, all sites types are eligible including fleets.*
- DCFC: Chargers must be available for public use 24 hours per day, site type eligibility: Commercial Locations, Transit Hubs, Colleges, Public Parking Garages/ Lots, Libraries, Airports, Hotels, Curbside

DCFC Power Level	General Market Rebate	Disadvantaged Community/Low Income Rebate
50kW-99.99 kW	Up to \$50K; or 75% of the total project cost, whichever is less	Up to \$60K; or 75% of the total project cost, whichever is less
100kW+	Up to \$70K; or 75% of the total project cost, whichever is less	Up to \$80K; or 75% of the total project cost, whichever is less
Level 2	General Market Rebate	Disadvantaged Community/Low Income Rebate
Capable of at least 6.6 kW	Up to \$4,500 / connector; or 75% of the total project cost, whichever is less	Up to \$5,000 / connector; or 75% of the total project cost, whichever is less
Multi-unit Dwelling Adder (only for shared parking)	\$1,000 / connector; or 75% of the total project cost, whichever is less	\$1,000 / connector; or 75% of the total project cost, whichever is less

Incentives are not final and may change prior to program launch

**Single family homes are not eligible*

***Workplace could include employees and shared public parking locations*

Incentive Offerings - PCE

PCE EV Charger Incentive Site Eligibility

- Level 1: Multi-Unit Dwellings (dedicated or assigned parking)*, Workplaces**, Non-Residential
- Level 2: Multi-Unit Dwellings (dedicated or assigned parking)*

TENTATIVE

Property Category	Property Type	Port Type	Port Incentive	Applicable Cap*
Existing	Multi-Unit Dwelling	L1 outlet	\$2,000	100% of project cost
		L2 EVSE port	\$6,500	85% of project cost
	Affordable Housing Multi-Unit Dwelling	L1 outlet	\$2,500	100% of project cost
		L2 EVSE port	\$7,000	100% of project cost
	Non-Residential/ Workplace Any	L1 outlet	\$2,000	100% of project cost
		Make Ready circuit**	\$2,000	\$20,000 per property
New	Market Rate Multi-Unit Dwelling (Above Code***)	L1 outlet	\$1,000	\$20,000 per property
		L2 EVSE port	\$2,000	\$40,000 per property
	Affordable Housing Multi-Unit Dwelling	L1 outlet	\$1,500	No cap
		L2 EVSE port	\$2,500	\$100,000 per property
New or Existing	Any	Resilient L2 or DCFC port	\$10,000	\$50,000 per property

Incentives are not final and may change prior to program launch

**Single family homes are not eligible*

***Workplace could include shared parking locations for employees and public*

Program Timeline *Tentative*



Coming Up...

Next RICAPS Meeting – Tuesday, April 28

Location: County Center or online

Topics:



Review of annual data
How can we work together on
GHG reduction and resilience?



Program updates
Focus on equity
NEW: Commercial, water bill savings

Announcements

- Office of Sustainability **Earth Day events postponed**. We will honor the 50th anniversary of Earth Day in conjunction with Coastal Clean-up Day in September
- **June RICAPS meeting** moving from June 23 to June 30

THANK YOU!

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OFFICE OF
SUSTAINABILITY

COUNTY OF SAN MATEO