

Peninsula Clean Energy Board of Directors Regular Meeting

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August 24, 2023



- Call to Order / Roll Call
- Public Comment (for items not on the Agenda)
 - Please note, send any chats to Board Clerk, Nelly Wogberg
- Action to set the Agenda and Approve Consent Items 1-5
 - Consent Public Comment
- Regular Agenda
- Adjournment

Peninsula Clean Energy



Chair Report (Discussion)

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CEO Report (Discussion)

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CEO Topics For Tonight

- Results of Board Survey
- Update on Surplus Funds Ad-Hoc Subcommittee Meeting 2
- Solar on Public Buildings "GovPV" Installations Update
- Open Positions
- September Meeting Dates

Board Survey - Feedback



Surplus Funds Committee Update

- Committee met on August 9th and made good progress
- Organized potential allocations around 4 funding categories
 - 1. Increase reserves/days cash on hand
 - 2. Increase customer savings through additional rate discount or rebate
 - 3. Additional funding for customer programs (resi/commerical/municipal)
 - 4. Funding for PCE sponsored local power projects
 - Also discussed potential for schools support
- Next steps
 - Meeting #3 on September 7
 - Consolidate committee ideas and continue discussions

Solar on Public Buildings: Installations Begun

- Solar installations in our first "Gov PV" cohort have begun!
- Systems to begin coming online in November
- 1.7 MW across 12 sites
- Next up: RFP release for second cohort of projects spanning 35 sites



San Carlos Youth Center 29.5 kW

Currently Posted Positions

Please help us spread the word!

- Chief Operating Officer (recruiter support)
- Chief Financial Officer (recruiter support)
- Energy Programs Analyst
- Regulatory Analyst
- Los Banos Community Relations Associate Manager

https://www.peninsulacleanenergy.com/join-our-team/



September Meetings

• Special Audit and Finance Committee: • Monday, September 11 at 8:30 a.m. • Executive Committee: • Monday, September 11 at 10:00 a.m. • Citizens Advisory Committee: ○ Thursday, September 14 at 6:30 p.m. Board of Directors: ○ Thursday, September 28 at 6:30 p.m.





CAC Report

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Local Government Building Electrification Program (GovBE)

Board of Directors – August 24, 2023



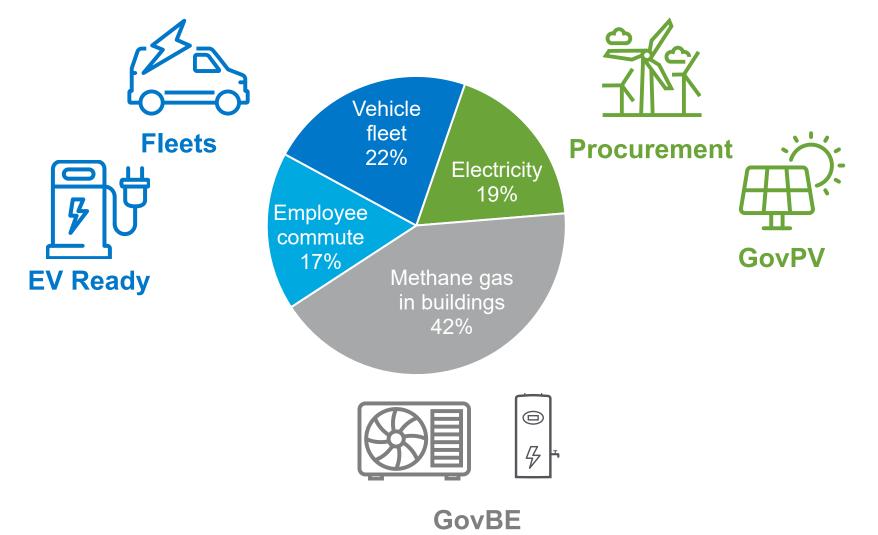
Recommendation

Program

Board approval of Local Government Building Electrification Program, including new \$10 million revolving loan fund, and existing budgeted incentive funding to support electrification projects at local government facilities

Background and Context

Background: Govt Emissions and PCE Program



Source – Menlo Park Climate Action Plan Progress – Figure 14, 2016 emissions.

¹⁵

CAP Goals to Decarbonize Government Buildings

Municipal Green Building Policy and Electrification

City facilities will follow the CALGreen Code and consider having new municipal buildings certified for LEED Silver or Gold status or equivalent. The new Community Center will be built to green building standards; however, at this point it is unknown what level of LEED standard will be achieved. The City is also looking at opportunities for including PV solar panels for the new Community Center.

In order to lead by example, all new construction projects by the City will be all-electric based on adopted Reach Codes and will strive to be zero net energy via on-site solar. The Community Center currently under design is committed to these goals.

Excerpt from Millbrae 2020 Climate Action Plan





Millbrae's new all-electric rec center

BAAQMD Ruling Will Impact Govt Buildings

2027 - Rule 9-6 Boiler and Water Heaters

2029 - Rule 9-4 Space Heating Furnaces

2031 - Rule 9-6 Boiler and Water Heaters

What Is Needed? Flexible Funding Solutions



East Palo Alto City Hall



Brisbane Pool



San Mateo Animal Shelter



Merced County Library, Los Banos



Menlo Park Burgess Pool

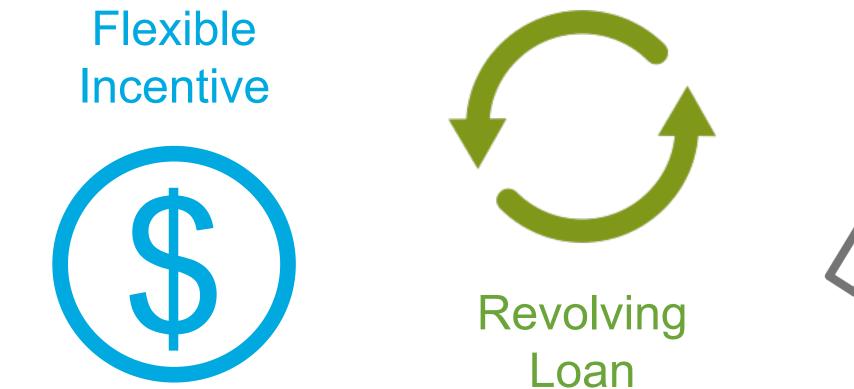


San Carlos Youth Center

Proposed Program

Local Government Building Electrification

Program Components



Match Funding



Incentive Program

Why local governments need access to incentives:

- Electrification does not always have a payback
- Governments cannot take out unlimited loans
- Cities have noted a need for a mix of both loan and incentive options

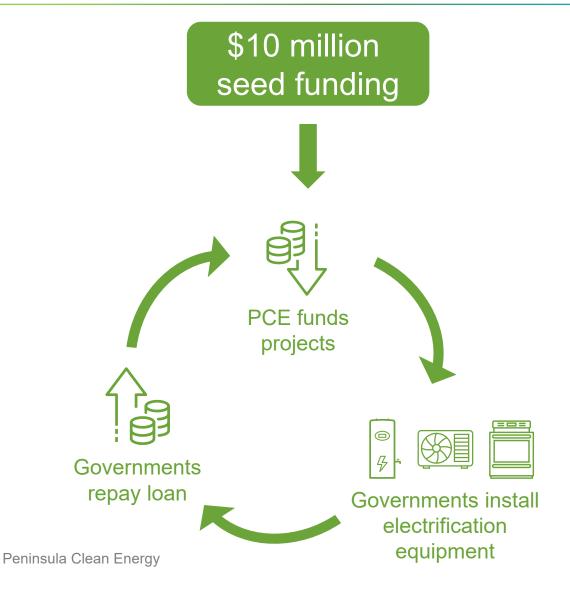
Recommending:

- Flexible incentive based on gas usage, at an amount similar to residential incentives or \$16/therm.
- Each 1,000 therms of gas saved per year translates to ~5 MT CO2e/yr



A worker carefully places an old gas-fired, roof-top HVAC unit onto a truck bed at the Peninsula Conservation Center in Palo Alto on Jan. 25, 2023. Photo by Magali Gauthier.

Electrification Revolving Loan Fund



Why local governments need access to loans:

- Budgets are limited
- Individual projects are the wrong size for one-off traditional finance, such as Power Purchase Agreements
- California Energy Commission loan is too restrictive
- Gas replacement programs in the capital improvement pipeline are typically underfunded to enable electrification

Proposed Program Terms

Incentive program

- \$1 million/yr in current budget (\$750k for FY24)
- Up to \$16 per therm per year gas reduction
- \$600k cap per project
- Max of \$600k per agency per year

Revolving loan fund

- 7-year loan term
- 1% interest rate
- \$10 million seed funding
- Max loan of \$600k per project
- Max loan of \$600k per agency per year

Match Requirement

• Minimum 25% cost-share by non-PCE funds

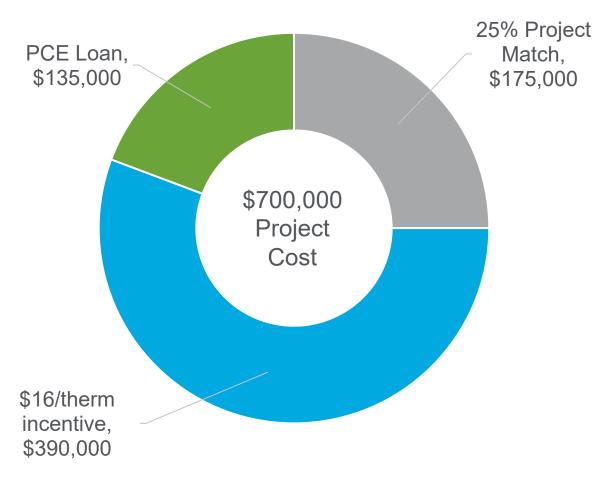
Examples

Local Government Pool Example

- Large municipal pool
- Aging gas water heater with \$100k+ replacement cost
- Partial electrification Plans to keep gas water heater as backup system to avoid extra \$1M in electrical upgrade costs while saving 80%+ of gas use

Total Installation Cost	\$700,000
Business as Usual Gas Cost	\$180,000
Incremental Cost to Electrify	\$520,000

Gas Savings per year	\$60,000
Electricity Increase per year	\$34,000
Energy Cost Savings (1st year)	\$26,000
Energy Cost Savings (12 years)	\$312,000

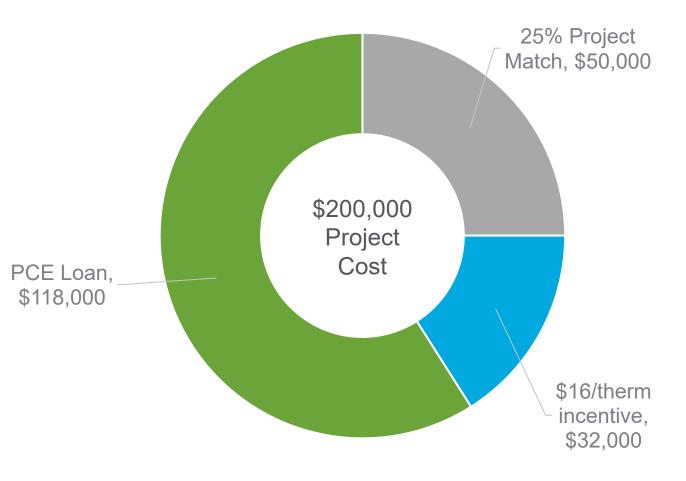


Hypothetical Community Center Example

Example community center electrification project:

- Eight HVAC gas units replaced with heat pumps
- Heat pump water heater installed
- 11 Metric Tons CO2e saved per year





Project Selection Process

- Annual, streamlined application process
- Prioritize projects based on:
 - Urgency (gas equipment aging out)
 - $_{\circ}$ Shovel-readiness
 - $_{\odot}$ Total therm savings
 - "Showcase project" or high community visibility
- Retaining existing gas system allowed

Operating Cost Analysis

Operating Cost Impact

- Multiple recent studies have found that conversion from gas to heat pumps typically reduces operational costs, but in some cases adds negligible cost
- The operational cost savings is higher if paired with solar PV



Project Cost Examples

- CPUC-funded Statewide Municipal / School efficiency program
- Includes electrification, but with strict requirements
- Calculations by Wildan, found cost savings of up to 30%, or a cost increase of up to 3%

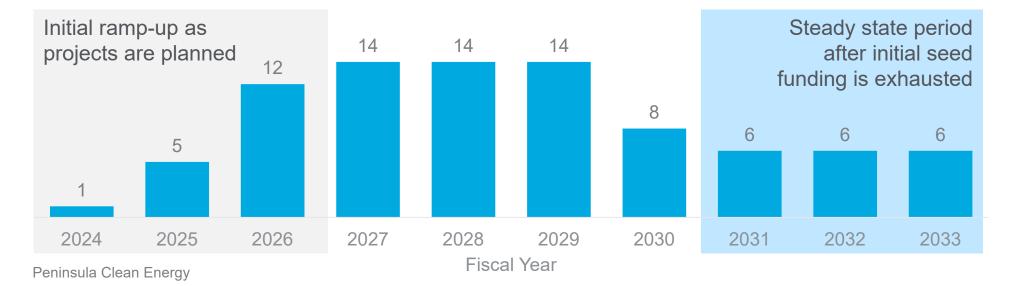
	Project 1	Project 2	Project 3	Project 4
Scope	Swimming Pool	Pool + Hydronic	Swimming Pool HVAC City Hall	
	Electrification	Heating	Electrification	HVAC City Hall
Occupancy Type/Building Type	Assembly/Office	Assembly/Education	Assembly	Office Small
Occupancy Type/Building Type Small	Small	Secondary	Assembly	
Location	East Bay	East Bay	Central Coast	Central Coast
Est . ROM - Capital Costs	\$1,960,000	\$3,200,000	\$1,880,000	\$650,000
Est. Incremental Costs	Not Available	Not Available	\$1,375,000	Not Available
Est. GK12 Program Incentive	\$246,120.00	\$254,324.00	\$196,345.16	\$26,370.00
Est. Therms Reduced	42,000	43,400	33,506	4,500
Est. Increased kWh/Yr	230,000	241,000	172,766	24,988
Est. Utility Savings 1st Year	\$8,000	\$ 4,400	\$25,349	\$ (247)

Potential Impacts

Example Revolving Loan Scale Over Time

Chart based on: • 1% interest rate	Seed Fund Size	Projects Funded over 10 years
	\$5,000,000	49
Average project size of \$300,000	\$10,000,000	86
 \$10 million in seed funding fund 86 projects/10 yrs 	\$20,000,000	151
 Includes forecasted incentive program 		

Number of Projects Funded by Fiscal Year



Program Benefits

1. Energy cost savings for local governments

- Government buildings typically see cost savings from electrification
- Pools will save up to \$30,000 per year in energy costs
- Adding on-site PV plus battery increases cost savings

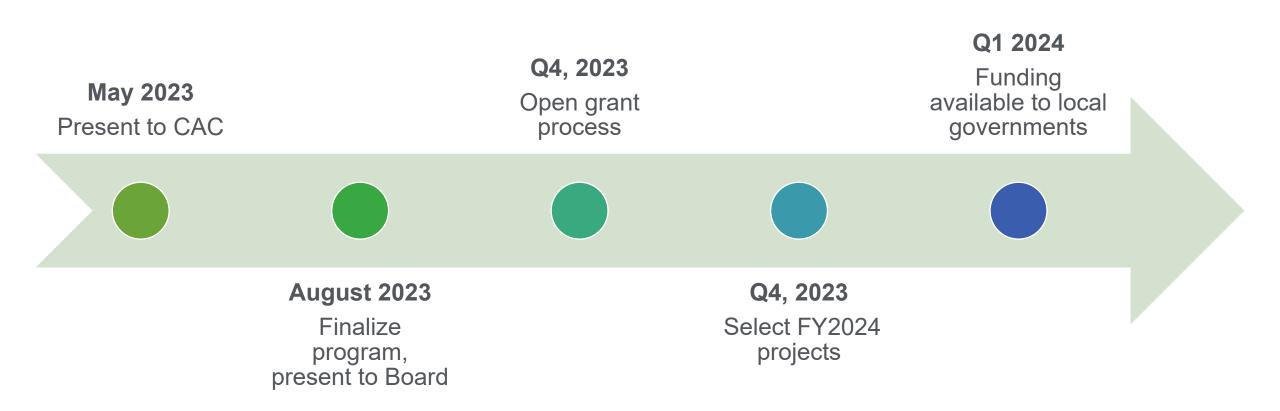
2. Funding building improvements

- Help with deferred maintenance and replacement of systems
- Electrification of difficult facilities

3. Emissions savings

- 500-3,000 MT per year
- A municipal pool heater has similar emission to 100 homes (100+ MT/yr)
- A small recreation center is similar to electrifying 4 homes (6 MT/yr)

Proposed Timeline



Peninsula Clean Energy

Recommendation

Program

Board approval of Local Government Building Electrification Program, including new \$10 million revolving loan fund, and existing budgeted incentive funding to support electrification projects at local government facilities

Net Billing Tariff (NBT) Update

Board of Directors – August 24, 2023

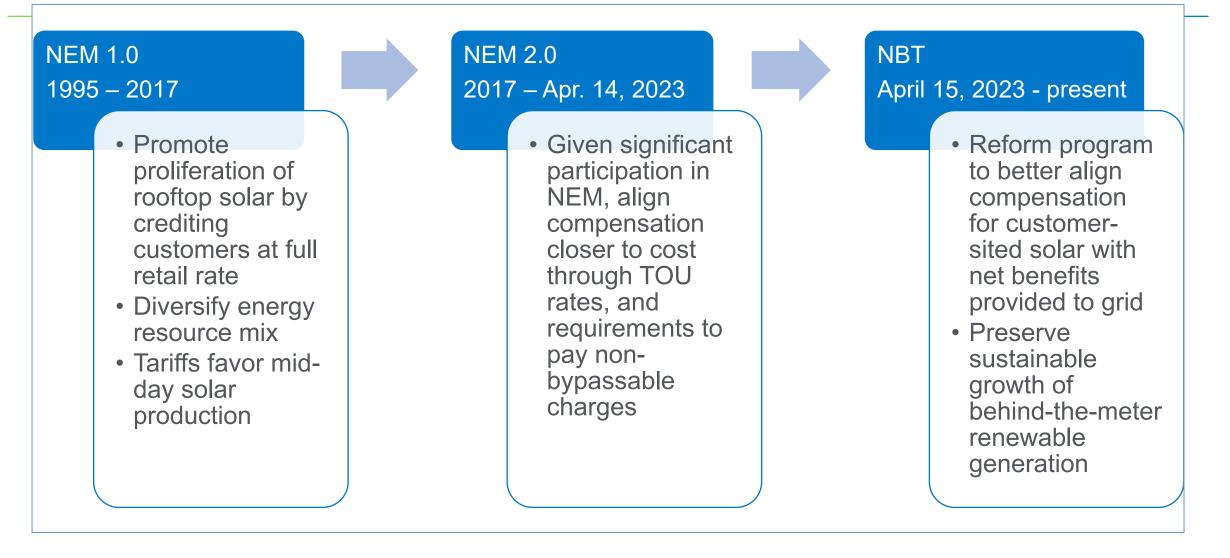
Discussion Overview

- Brief recap of NEM 2.0 sunset and NBT transition
- Major differences between NEM and NBT
- Customers impacted by NBT
- What are other CCA's doing?
- PCE policy considerations

What is NBT?

- New solar interconnection policy for new interconnection applications starting April 15, 2023
 - NEM 3.0 => Net Billing Tariff (NBT) => Solar Billing Plan (SBP)
- Per the CPUC the new policy changes are intended to:
 - Credit excess solar generation at its grid value (vs retail)
 - Charge NBT customers for grid electricity based on high differential TOU tariffs and encourage solar + storage installations
 - Discourage mid-day solar exports and encourage shifting exports to later in the day (duck curve mitigation)
 - $_{\odot}$ Support sustainable growth of solar in CA

NEM Evolution – CPUC Policy Objectives



NEM => NBT Evolution

	NEM 1.0 1996-2017	NEM 2.0 2017-Apr.14, 2023	NBT Apr. 15, 2023 - present
Rate Schedule	Any	TOU rates (4-9 pm peak rates)	TOU Electrification Rates (E-ELEC for PG&E)
Value of solar used concurrently on-site	Offsets imports, so equivalent to retail rate	Unchanged	Unchanged
Value of solar exported to grid	Full retail rate	Retail rate minus non- bypassable charges and one-time interconnection fee	Avoided Cost Calculation (ACC) price per interval – no more retail credit
Net Surplus Compensation (NSC) payment at true-up	Net exports times NSC rate	Unchanged	Net exports time NSC rate, <i>minus ACC</i> export value already granted
Non-bypassable charges calculation basis	Net imports only	Net imports within each interval	All imports (separately metered)
Billing and true- up period	Annual billing, annual true- up (both charges and credits roll over for 12 months)	Unchanged	Monthly billing and payment; annual true- up (credits roll over for 12 months)

NBT/SBP vs NEM Customer Solar Value

Did You Use It On-Site?	NEM 1.0 / 2.0	NBT
Yes It avoided imports	Retail rate value, through avoided import rates	Unchanged and worth full value!
No It was exported to the grid	Exports valued at retail rate-based bill credit (minus 10% for NEM 2.0)	Exports valued based on Avoided Cost Calculator values, significantly less

- Avoided Cost Calculator (ACC) is an established tool for evaluating Distributed Energy Resource and Energy Efficiency programs
 ACC determines generation, capacity, distribution, transmission, environmental, etc. values with every hourly interval
 - Controversial among solar advocates as the duck curve has continued to devalue energy during solar generating hours

Example: NBT Export Value in PG&E Territory (no storage)

PG&E E-TOU-C rate	Gen Value	Delivery Value	Total Value
NEM 1.0	14.6 c/kWh	26.8 c/kWh	41.3 c/kWh
NEM 2.0	14.6 c/kWh	23.6 c/kWh	38.1 c/kWh
NBT	2.9 c/kWh	0.5 c/kWh	3.3 c/kWh
NBT Reduction in Value	-80%	-98%	-92%

- Generation values = marginal energy value and resource adequacy
- Delivery values = T&D, public purpose programs, wildfire insurance, etc.
- Exports must be coincident with system peaks to have high value
- Abundance of solar is the main cause of solar devaluation

Example Monthly Energy Export Credit Table

	01:00	02:00	02:00*	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00
11/1/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11/2/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
11/3/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
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11/11/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.04	0.04	0.04
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11/19/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.04	0.04	0.04	0.04
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11/27/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
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11/30/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
12/1/2023	0.02	0.02		0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04

No Immediate Changes for Most NEM Customers

- Existing NEM customers have 20 years from their original interconnection date before new policy applies
 - Changes and/or upgrades to an existing solar system can trigger an early transition to new program
- Processes for transitioning customers are still being developed
 - PG&E is proposing to transition NEM 1.0 customers whose original interconnection agreements have expired on their next true-up pst Solar Billing Plan launch
 - We estimate that there are ~250 current PCE customers (~1% of all PCE NEM customers) that are eligible for NBT transition through December 2024

What are other CCA's planning?

- CPA (Clean Power Alliance) is the only CCA so far that has formally adopted an NBT policy.
 - Will follow SCE's compensation rates for generation but will evaluate separate programmatic opportunities to provide additional incentives for battery storage
- Informally other CCA's are likely planning to make similar decisions.
 - Follow the state plan for ACC compensation while looking for additional opportunities to support energy storage as well as low-income customer access/adoption

PCE Policy Considerations

- PCE will need to determine compensation rates for excess solar generation for NBT customers and staff is still developing our recommendation
 - ACC values will still apply to T&D exports regardless of CCA Generation export rates
 - Deviating from the ACC for Generation exports will likely cause confusion amongst solar installers and customers
 - Anecdotal comments from solar industry imply that they will be modeling based of standard ACC compensation
- More to come over the next couple of months as staff refines recommendations



Customer Understanding Marketing Update

Board of Directors – August 24, 2023

Overview

- Customer research sources
- Brand awareness
- Customer priorities
- Next steps



Sources of Customer Understanding

- Annual perception survey
- Feedback from community workshops
- Focus groups
- Other online surveys



"I would love options to PG&E."

"I am not sure who you are and what you want"

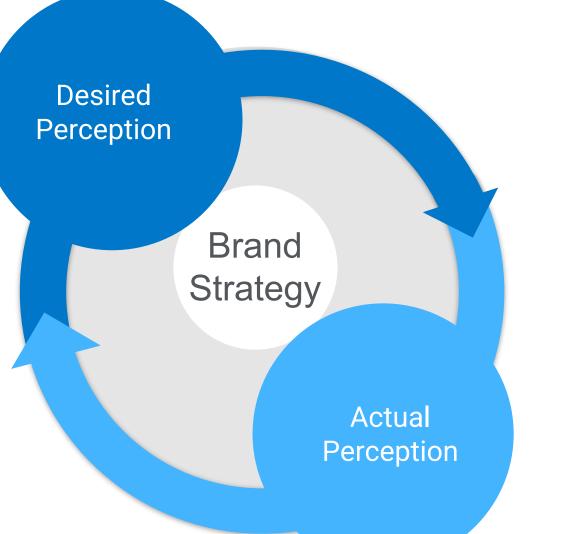
"You gave me a rebate... but I didn't realize you're also my electricity provider"



"I would love options to PG&E."

"I am not sure who you are and what you want"

"You gave me a rebate... but I didn't realize you're also my electricity provider"





"I just want safe, inexpensive power."

"This year the price of gas and electricity has been unsustainable."

"I am interested in learning more about what we can do personally in our own home."

"I'm interested but won't change appliances until mine are in need of replacement..."

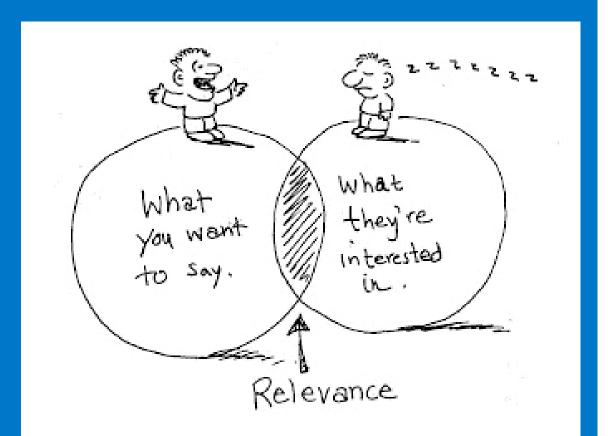


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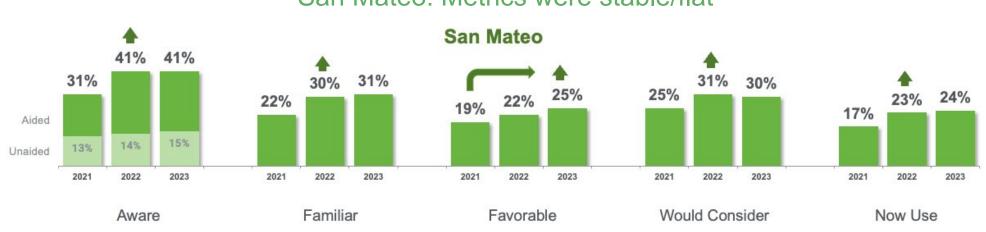
We can build relationships through relevant content and context



Annual Perception Survey

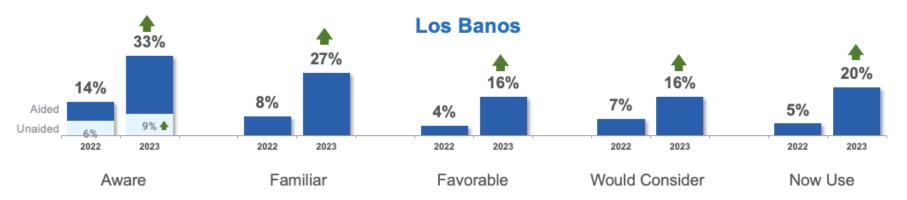


Brand Results – Persuasion Monitor™



San Mateo: Metrics were stable/flat

Los Banos: All metrics improved in 2nd year of service



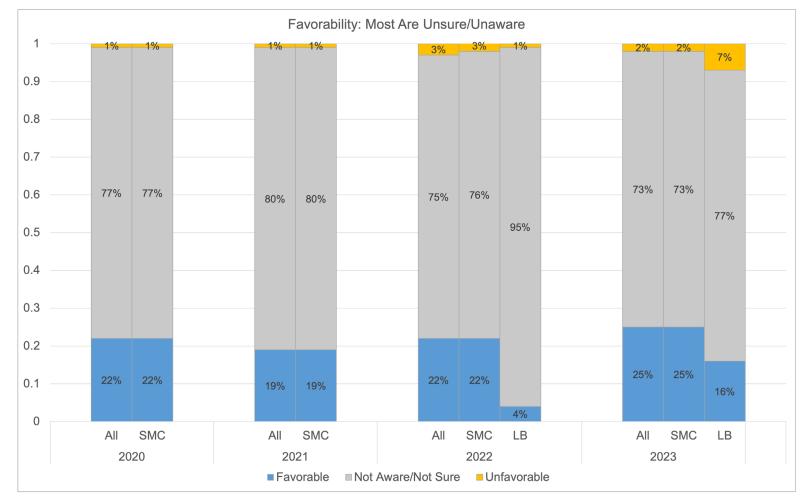


A Closer Look at Favorability

Most are unaware or unsure.

Where people are unfavorable, they tend to have higher rate of misperceptions:

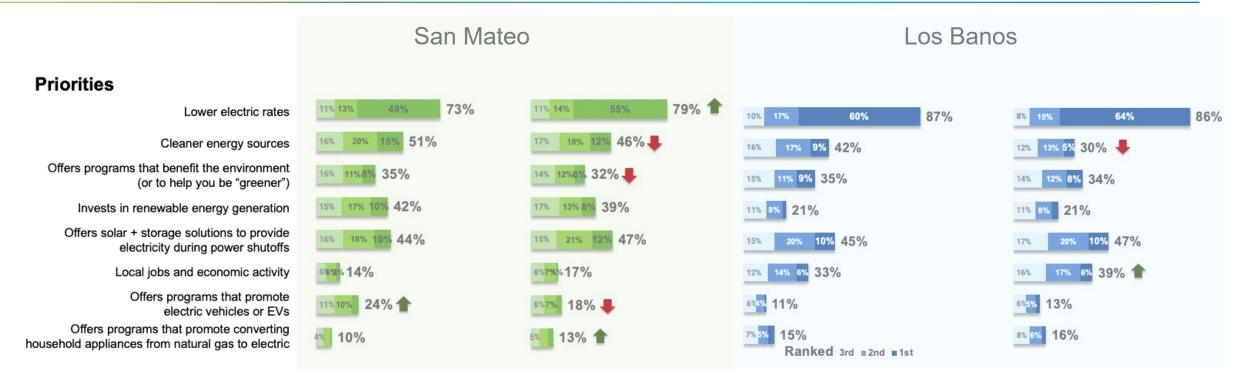
- 1) They think we charge a higher rate than PG&E
- 2) They thinks we are a branch of PG&E
- 3) They thinks we are for-profit





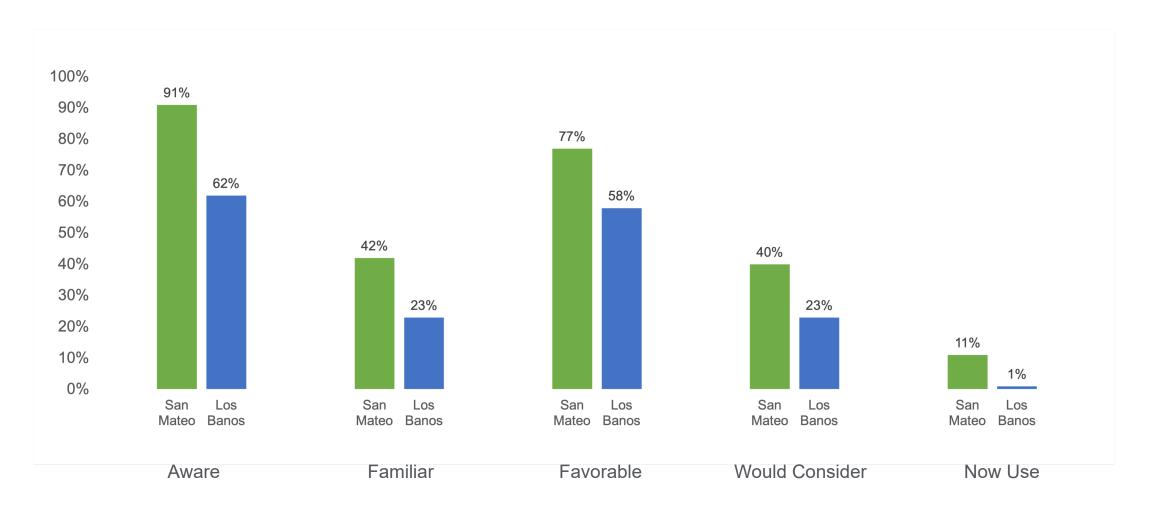
Resident Priorities

PENINSULA



- Lower rates has increased in priority over the past few years
- Programs that improve reliability or control costs are gaining importance
- Programs aimed at environment or clean energy have declined in importance

Attitudes About EVs

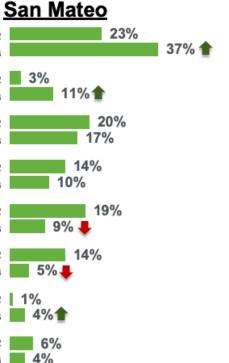


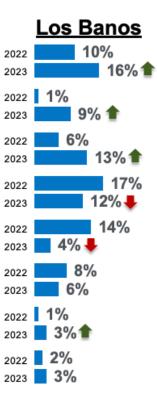


Used EV Barriers

- Battery life has significantly increased as a barrier
- Range is still an issue
- Maintenance cost concerns have increased.
- Concerns about a lack of charging stations has dropped significantly

	San
Lifetime of Battery / Condition of Car	2022 2023
Maintenance Cost	2022 3% 2023
Range / Run Out Of Battery	2022 2023
Cost to Buy	2022 2023
Lack Of Convenient Charging Stations	2022 2023
Cost to Use / Electricity Costs	2022 2023 5
Cost of Battery Replacement	2022 1% 2023 4%
Reliability	2022 6 2023 4%

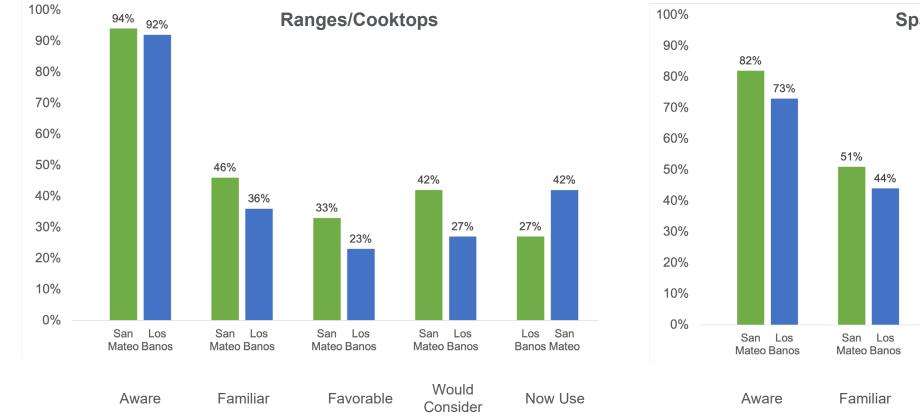


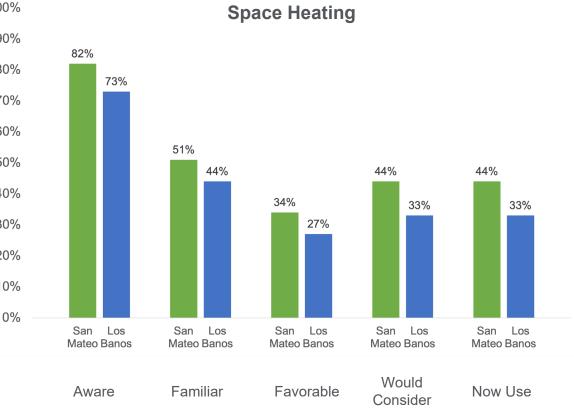




Attitudes About Electric Appliances

• Persuasion metrics all increased from 2020 to 2023







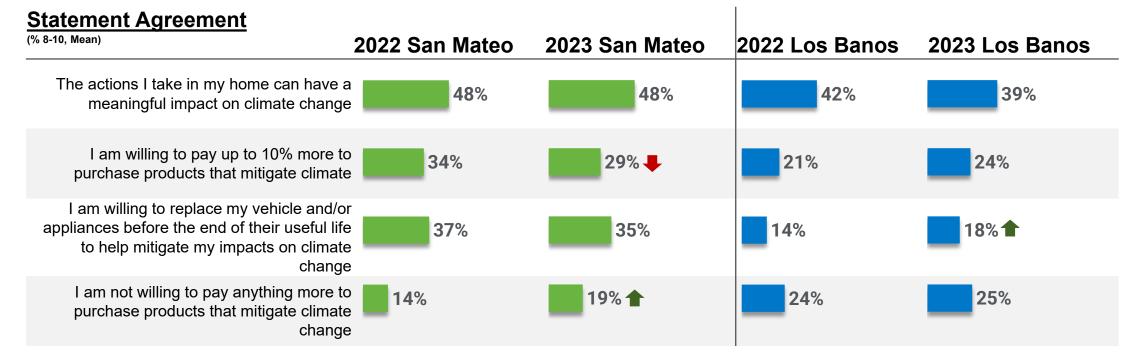
Natural Gas vs Electric Appliances

- Electric seen as better for indoor air quality, safety, environmental benefits, carbon footprint
- Gas appliances are seen as better for cooking
- Residents are divided on which is best in efficiency, operating and upfront costs

Electric vs Gas	2023 Sa	an Mateo							
Better for indoor air quality		73%	3	<mark>%6%</mark> 18%]	57%	5 <mark>7%</mark> 7	<mark>% 29</mark> %]
Safer		60%	<mark>4%</mark> 12%	24%	j	48%	<mark>9%</mark> 9%	34%	i i
Greater environmental benefits		60%	<mark>5%</mark> 9%	26%	j	47%	<mark>9%</mark> 9%	35%	i i
Reduces my household's carbon footprint		61%	<mark>5%</mark> 8%	25%	j	43%	<mark>7%</mark> 10%	40%	■ Electric
Greater operating efficiency	35%	21%	<mark>6%</mark>	38%	j	29%	25% <mark>4%</mark>	42%	Natura
Lower operation cost/fuel cost	32%	25%	8%	36%	j	31%	24% <mark>7%</mark>	37%	Neither
Works better for heating your water	25%	34%	<mark>5%</mark>	36%	j	19%	46% 4 %	<mark>% 32%</mark>	Not Su
Lower purchase cost/less expensive	20%	27% 9%	6	44%	j	28%	24% 8%	39%	j –
Works better for heating your home	23%	37%	<mark>5%</mark>	35%	j – L	25%	38% 3 <mark>%</mark>	33%	j –
Uses a power source that contributes to climate change	21%	43%	7%	29%	j – L	27%	19% 10%	44%	i i
Works better for cooking	19%	60%)	<mark>6%</mark> 15%)	15%	65%	2 <mark>%</mark> 18%	
ding codes may restrict their installation in new construction	<mark>9%</mark>	56%	<mark>4%</mark>	32%	j	<mark>9%</mark> 30%	8%	53%)

Climate Change Attitudes

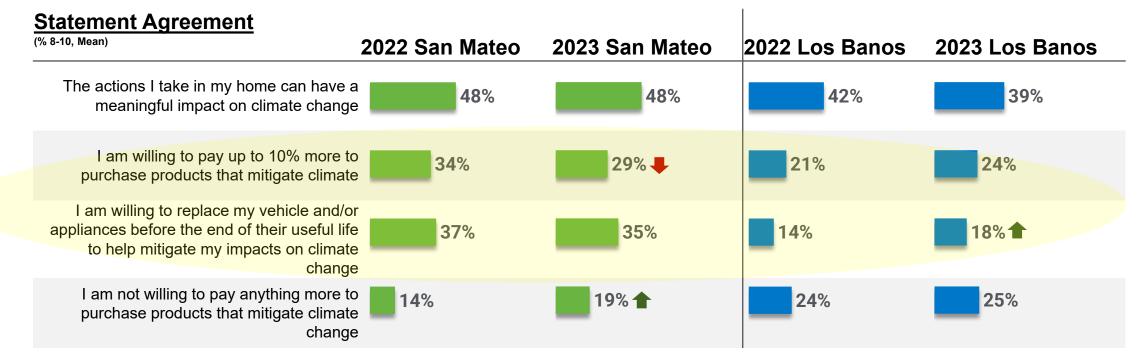
- Almost half of SMC residents (48%) believe their individual, household actions can have a meaningful impact but while (29%) would pay up to 10% more to purchase products that do so.
- Los Banos residents (39%) believe their individual, household actions can have a meaningful but fewer (24%) would pay up to 10% more to purchase products that do so.





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Next Steps



Brand Strategy & Marketing Roadmap







Thank you!



Adjournment

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