

SoCalREN Advisory Committee Meeting

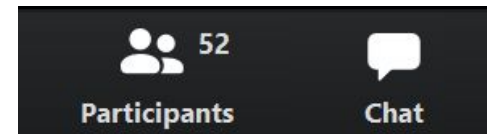
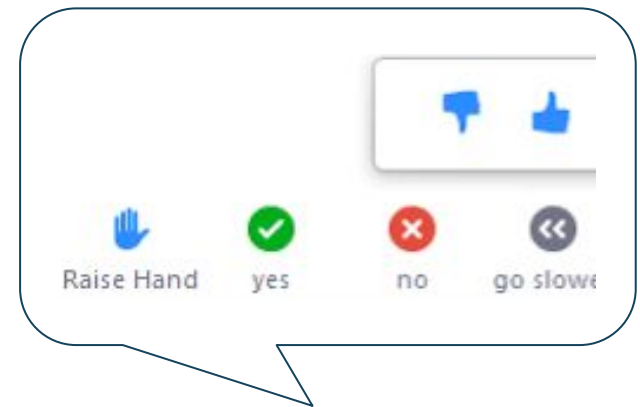
Wednesday, September 22, 2021
10:30 am - 12:00 pm

Administration

- This webinar is being recorded
- Please keep microphone muted unless you want to speak
- If you are experiencing any technical issues during the webinar, please contact Meghan Kamper at *mkamper@energycoalition.org*

Directions for Chat

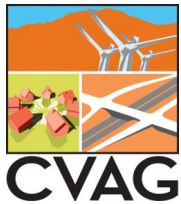
- We will be having an open discussion throughout the meeting!
- To facilitate orderly discussion while others are speaking, we are going to be using the “raise hand” function.
- If you would like to ask your question verbally click on the “raise hand” function so we can unmute you.
- If you would not like to be unmuted, send us your question or comment through the chat!



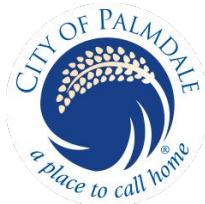
Introductions

Who is participating today?

Advisory Committee Members



SOUTH BAY CITIES
COUNCIL OF GOVERNMENTS



Invited Guests



SoCalREN Staff, Implementers & Regional Partners



SoCalREN Advisory Committee



Guide and Advise



Collaborate & Innovate



Be Informed



Be an Advocate

Agenda

SoCalREN Welcome	Minh Le	7 min
Networking	All	8 min
Regulatory Updates	Cody Coeckelenbergh, Ljuana Medina	30 min
CPA's Clean Back-Up Power Essential Facilities	Ted Flanigan (EcoMotion)	35 min
SoCalREN Advisory Committee Updates	Ljuana Medina, Laurel Rothschild	7 min
Closing Remarks	Minh Le	3 min

SoCalREN Welcome

Minh Le, Los Angeles County

Networking

All

Breakout Rooms - Quick Connect

- Introduce Yourself!
 - Do you feel as productive at home as you are at the office?
 - What is the one thing that would actually help remote teams to function better?
- Bonus Question
 - What is the best piece of advice you've been given?

Regulatory Updates

Cody Coeckelenbergh & Lujana Medina

R.13-11-005 EE Rolling Portfolio / CAEECC



Recent Development	Impact to LG/ Constituents Served
<ul style="list-style-type: none"> • Ruling requesting proposals to address Governor's proclamation of a state of emergency 	<ul style="list-style-type: none"> • SCR requested \$28m for 7 incremental programs & projects
<ul style="list-style-type: none"> • Draft Total System Benefit (TSB) technical guidance document released 	<ul style="list-style-type: none"> • TSB will replace kWh, kW, therm savings as primary EE goals
<ul style="list-style-type: none"> • CAEECC – Market Support and Equity working groups 	<ul style="list-style-type: none"> • Develop MS and Equity metrics for BP
<ul style="list-style-type: none"> • Proposed Decision adopting EE goals for 2022-2032 	<ul style="list-style-type: none"> • Allows SCR to propose energy savings goals every 4 years
<ul style="list-style-type: none"> • Final 2021 EE Potential and Goals Study released 	
<ul style="list-style-type: none"> • 2022-2023 BBALs due Nov 1st 2021 	<ul style="list-style-type: none"> • SCR program funding request for 2022-2023
<ul style="list-style-type: none"> • 2024-2027 Business Plans due Feb 15th 2022 	<ul style="list-style-type: none"> • SCR program funding request for 2024-2027

Next Steps:

- 1) SCR awaiting response from Commission on EE proclamation proposals
- 2) SCR to develop and submit ABAL and Business Plan Application

Gov. Proclamation Summary

- Gov. Newsom issued emergency proclamation on 7/30 to meet future demand during extreme heat and wildfire events
- Proclamation orders:
 - 1) CPUC to accelerate deployment of new clean energy and storage projects
 - 2) CPUC to expedite approval of demand response (DR) programs and storage and clean energy projects
 - 3) CEC to prioritize actions to accelerate the State's transition to carbon-free energy

EE Ruling Seeking Proposals

- Seeks proposals for Commission actions that result in projects installed and deliver benefits by June 2022 and/or June 2023
- Proposals to facilitate:
 - 1) Accelerating EE projects
 - 2) Adding EE programs or measures targeting peak and net peak hours
 - 3) Integrating distributed energy resource (DER) investments with EE investments
- Proposals may include requests for:
 - 1) Additional Funding
 - 2) Funding of New Activities
 - 3) Changes to Commission rules or requirements

Microgrid Ruling Seeking Proposals

- Seeking proposals to expedite or accelerate clean energy projects by summer of 2022 and 2023
- Proposals to address Microgrid topics:
 - 1) Prevention vs. Mitigation of System Capacity Shortfall
 - 2) Islanding
 - 3) Leveraging Existing MG & Resiliency Programs
 - 4) Modifications to Microgrid Tariffs
 - 5) Potential New Microgrid Programs and Projects

SoCalREN EE Proposals

Proposed Program/Project	2022 Peak kW Reduction	2022 kWh Savings	2022 Incremental Budget (\$)	2023 Peak kW Reduction	2023 kWh Savings	2023 Incremental Budget (\$)
Food Desert Energy Equity (FDEE) Program	370	407,854	2,344,966	554	610,240	2,937,742
Energy Resilience Program	320 (dispatchable)	0	2,980,000	2,000 kW (dispatchable) 250 kW (permanent)	8,300,000	2,875,000
Schools Intelligent Load Management (SILM) Program	325	1,200,000	759,841	755	2,800,000	1,519,681
Water & Wastewater Intelligent Load Control Program	4,753	0	1,884,293	9,507	0	2,668,586
DR Enablement and Enrollment Program	1,069	0	2,407,925	2,494	0	1,600,313
Multifamily Distributed Energy Generation (MDER) Program	1,705	1,585,938	2,347,536	3,410	1,719,876	3,381,536

SoCalREN Program Proposals

Multifamily Distributed Energy Generation (MDER) Program

- SoCalREN requested ~\$5,700,000 for program years 2022-2023
- Assist multifamily properties to implement comprehensive DER projects through energy efficiency, solar photovoltaic, energy storage and load-flexible electric vehicle infrastructure installations.

Energy Resilience Program

- SoCalREN requested ~\$5,800,000 for program years 2022–2023
- To provide DER services not currently available to SoCalREN enrolled public agencies, with a focus on energy efficiency, solar PV + stationary electric storage, all with demand flexibility, through a variety of streamlined project contracting paths, such as Energy Service Companies (ESCOs) and Power Purchase Agreements (PPAs).

SoCalREN Program Proposals

Demand Response Enablement and Enrollment Program

- SoCalREN requested ~\$4,000,000 for program years 2022–2023
- To engage the public sector on load management actions through DR enrollment referrals and to empower public agencies to engage their communities on peak load reduction actions through a DR educational campaign.

School Intelligent Load Management (SILM) Program

- SoCalREN requested ~\$2,300,00 for program years 2022–2023
- To implement a school program that incorporates traditional EE strategies and retrofits using normalized meter energy consumption (NMEC) methodology with DR strategies recommended through SoCalREN's proposed Demand Response Enablement and Enrollment Program.

SoCalREN Program Proposals

Water and Wastewater Intelligent Load Control Program

- SoCalREN requested ~\$4,500,000 for program years 2022–2023
- To implement immediate and persistent load reductions through strategic load management strategies.

Food Desert Energy Equity Program

- SoCalREN requested ~\$5,300,000 for program years 2022–2023
- To expand the Healthy Stores program to replace inefficient refrigeration units in food banks, convenience stores, and small restaurants
- The Program will also leverage utility small business direct install programs that will additionally target ENERGY STAR® certified lighting and HVAC upgrades and controls to achieve additional peak demand and energy savings.

SoCalREN Policy Proposals

1. Allow technical assistance and incentives for DER measures in EE programs.
2. Re-introduce expired workpapers in the public sector even if below code, Industry Standard Practice (ISP), and/or outside of NMEC programs.
3. Allow NMEC in non-building public sector facilities
4. Set strict timeframes for project reviews by PAs to accelerate energy efficiency projects
5. Value solar at retail rates
6. Impose a moratorium on NEM rate changes for two years

R.19-09-009 Microgrids

Recent Development	Impact to LG/ Constituents Served
<ul style="list-style-type: none">Amended Scoping Memo and Ruling	<ul style="list-style-type: none">Sets development schedule of Microgrid Incentive Program and multi-property tariff
<ul style="list-style-type: none">Ruling requesting proposals to address Governor's proclamation of a state of emergency	<ul style="list-style-type: none">SCR requested \$22m for SCR regional microgrid incentive pilot program
<ul style="list-style-type: none">Microgrid Incentive Program (MIP) Workshops	<ul style="list-style-type: none">Developing process for MIP\$200m statewide for 10 projects per IOU territory
<ul style="list-style-type: none">CPUC – Resiliency and Microgrid Working Group meetings	<ul style="list-style-type: none">Facilitating discussions to support resiliency efforts and commercialization of microgrids

Next Steps:

- 1) CPUC to issue decision on proclamation proposals by November
- 2) Parties to review draft Joint IOU MIP implementation plan in Q4
- 3) Multi-property microgrid tariff development to begin in Q4

SoCalREN Microgrid Proposal

Streamlined Shovel-Ready Public Agency Projects with project management support throughout



Prioritize sites with energy/DER audits performed



Confirm stakeholder buy-in for streamlined implementation



Support Project Vetting with Developers & Agency Coordination



Incentives paid & Dispatched energy

Targeted measures:

- Solar PV
- Battery storage
- Thermal storage
- Demand flexibility enablement (building controls, sensors, energy management systems)
- Risk-based control logic for dynamic load control via the LBNL FlexAssist platform

SoCalREN Microgrid Proposal

The Regional Microgrid Incentive Pilot Program Objectives:

1. Support design of clean microgrids with demand flexibility to provide grid benefits while also reserving resources to power critical systems
2. Accelerate the installation of clean microgrids at public facilities that can continue to provide critical community services during an outage
3. Accelerate the installation of public sector demand flexibility controls, and solar + storage projects
4. Increase public agency sites participating in current available microgrid programs (i.e., SGIP) and develop public agency capacity and expertise in the value of Grid-Interactive Efficient Buildings (GEBs)
5. Increase the ability of public agencies to meet local, regional, and state Microgrid and resiliency energy goals.

Program	Annual Solar Production	Peak Demand Reduction (4:00 p.m.-9:00 p.m.)	Storage Capacity	Project Cost	Requested Funds
Regional Microgrid Incentive Pilot Program	4,170,000 kWh	9.7 MW	23.2 MWh	-----	\$22,780,000

R.20-08-022 Clean Energy Financing

Track	Event	Date
Track 1: Existing CAEATFA CHEEF Programs	<ul style="list-style-type: none">• D.21-08-006 released	August
Track 2: Scaling Financing Programs	<ul style="list-style-type: none">• Final Report on existing IOU financing programs released	June
	<ul style="list-style-type: none">• Workshop on expanding existing programs	TBD
	<ul style="list-style-type: none">• Ruling on metrics and strategies to align offerings with state clean energy goals	TBD
Track 3: New Financing Program Proposals	<ul style="list-style-type: none">• AC Ruling seeking new proposals	TBD

Per [Ruling](#), Track 2 & Track 3 schedule has been suspended until future ruling released.

R.21-06-017 Grid Modernization for DER

Track/Event	Date
<u>OIR</u> to modernize the grid for a high DER future	June 2021
CPUC to issue Scoping Memo and Ruling	Q4 2021
Track 1: Distribution System Operator Roles and Responsibilities	Kickoff Q1 2022
Track 2: Distribution Planning, Community Engagement, and DER Integration	Kickoff Q2 2022
Track 3: Smart Inverter Operationalization, Grid Modernization, and GRC Alignment	Kickoff Q1 2022

Other Proceedings

- R.20-05-003 - Integrated Resource Planning
 - [Ruling](#) seeking comments on proposed preferred system plan (8/17)
- R.14-10-003 - IDER
 - Major 2022 Avoided Cost Calculator (ACC) Update

CPA's Clean Back-Up Power Essential Facilities

Ted Flanigan, EcoMotion



SoCalREN Advisory Committee -- September 22, 2021

***Clean Power Alliance Power Ready
Program
Creating Energy-Resilient Facilities***

**A Briefing by Ted Flanigan,
President, EcoMotion**

216 W Kenneth Road
Glendale, California 912024
www.ecomotion.us

Outline

- A. PROJECT GOALS
- B. PROGRAM DESIGN
- C. NOMINATING “IDEAL SITES”
- D. SITE ASSESSMENTS
- E. CURRENT STATUS



A. Project Goals

To provide each member agency with an energy resiliency project, at no additional cost, that provides significant community benefit while providing demand response to the CPA.

B. Program Design

THE CPA POWER READY PROGRAM OFFER TO MEMBER AGENCIES

- No-cost systems provided to member agencies
- Member agencies pay normal monthly utility price
- Member agencies get energy-resilient sites

**PROJECT FINANCIER
SYSTEMS' OWNER**



**CLEAN POWER
ALLIANCE**

Contracts for 32
energy-resilient
systems

Power Ready Turn-Key Services



PLANNING

CPA contracts with financier for energy-resilient systems



IMPLEMENTATION

Financier provides systems for member agency deployment



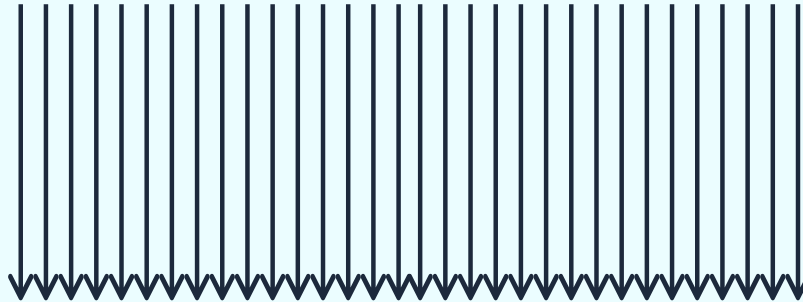
MONITORING

Systems backed with O&M and performance guarantees

**PROJECT FINANCIER
SYSTEMS' OWNER**

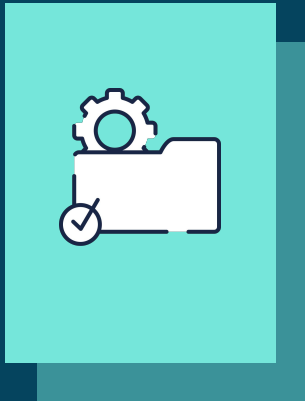


CLEAN POWER ALLIANCE



32 Member Agencies

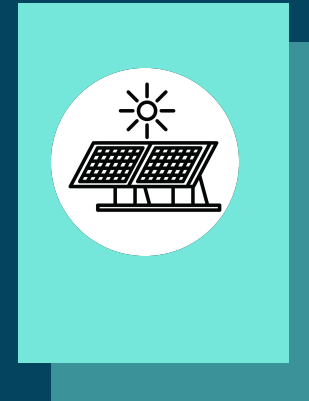
Financing



CPA provides systems and guaranteed operations to member agencies at no cost



Member Agency X used to pay the CPA for energy and demand – eg \$50,000 per year



Now Member Agency x pays the CPA \$50,000 per year for solar + storage + energy resilience

Program Details

- Defining an exciting portfolio of suitable sites that meet certain load criteria
- Highlighting the community benefit of resilience for each site
- Working to identify critical circuits representing less than 20% of full load to maximize resilience
- Providing each member agency with 4-hour battery storage dedicated to energy resiliency
- Providing up to 100 hours of demand response for the CPA



C. Building a Portfolio of “Ideal Sites”



"Ideal Sites"

MEMBER AGENCIES ARE BEING GRANTED EXTRAORDINARILY VALUABLE SYSTEMS

It's up to the agencies to identify up to five locations that maximize community benefit... city logistics, emergency sheltering, public access, communications.

EcoMotion's job is to identify sites that work for the project's economics...and that pay for themselves to the greatest possible extent while providing resiliency.



1. Single facility, single meter



2. Community Benefit

- Fire and safety
- Police and safety
- Municipal operations, command post
- Shelter
- Cell phone charging
- EV charging
- Medical device charging

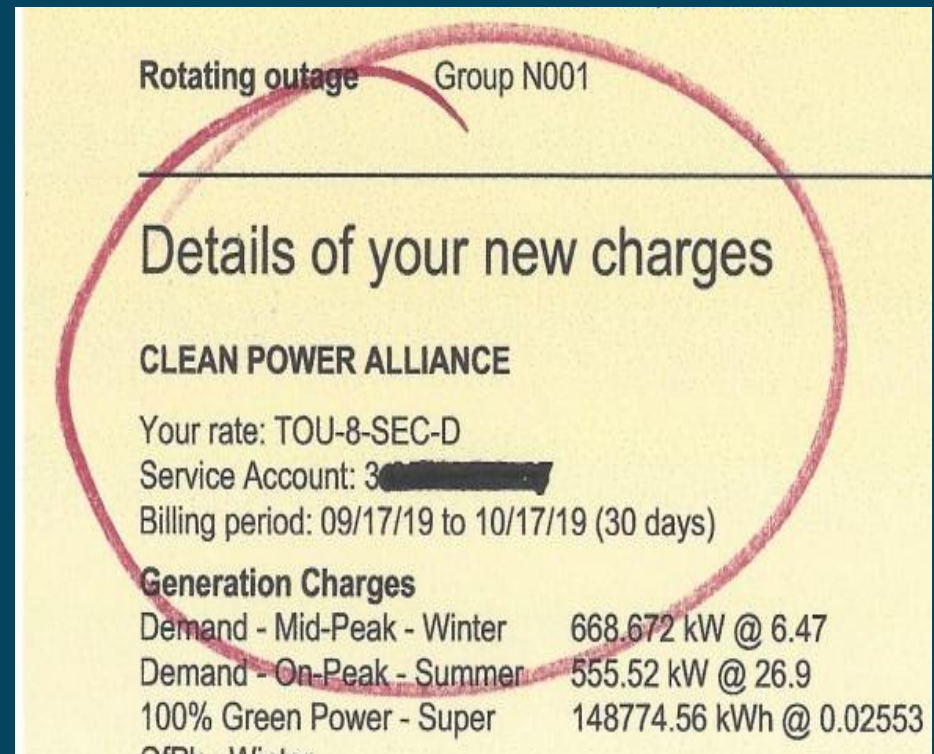


3. Considerable Site Energy -- Annual kWh Load

- Higher annual use supports more solar

- Highest Loads (TOU-8 rates)
- Medium Loads (TOU-GS-3 rates)
- Smaller Loads (TOU-GS-2 rates)

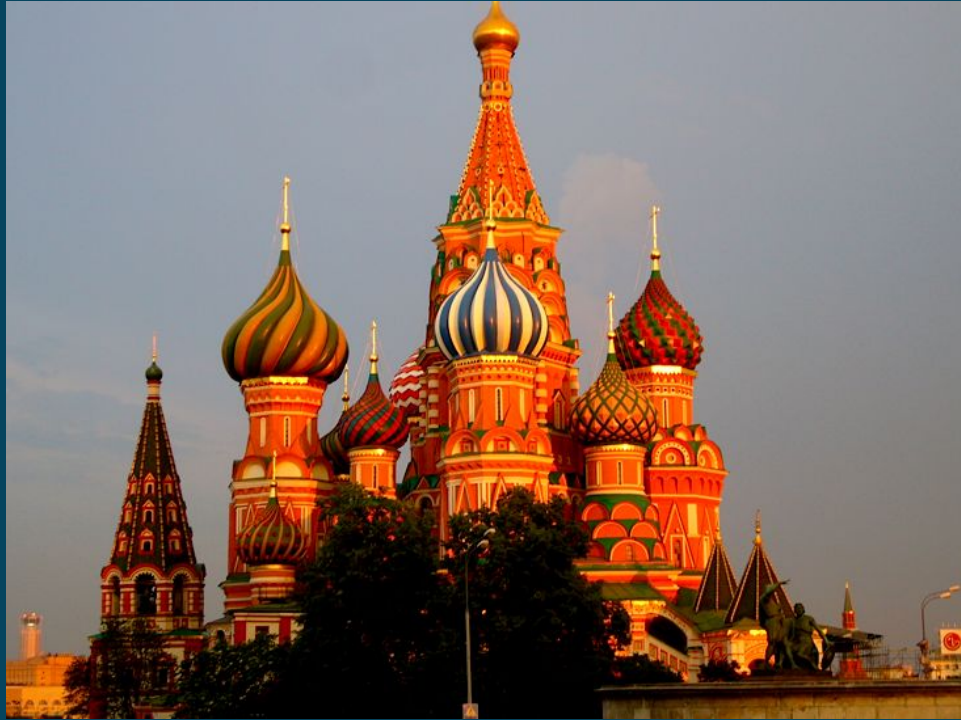
(The rate designation is on the bill)



4. Critical Loads

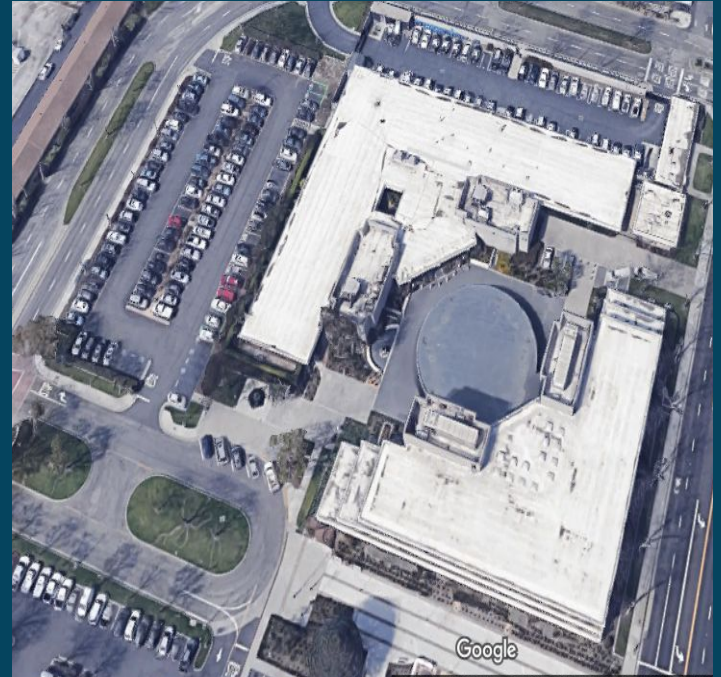


5. Roof Space for Solar?

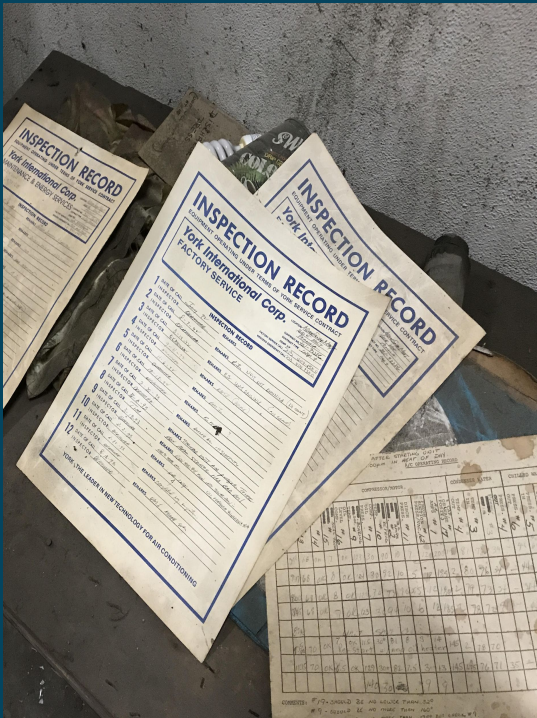


Civic Center Example with Good Potential

- 2 Buildings
- Approximate Roof Area Square Feet = 39,900
- Over 140 parking stalls for potential carports



7. Switchgear is modern and in good condition



8. Building is already energy-efficient



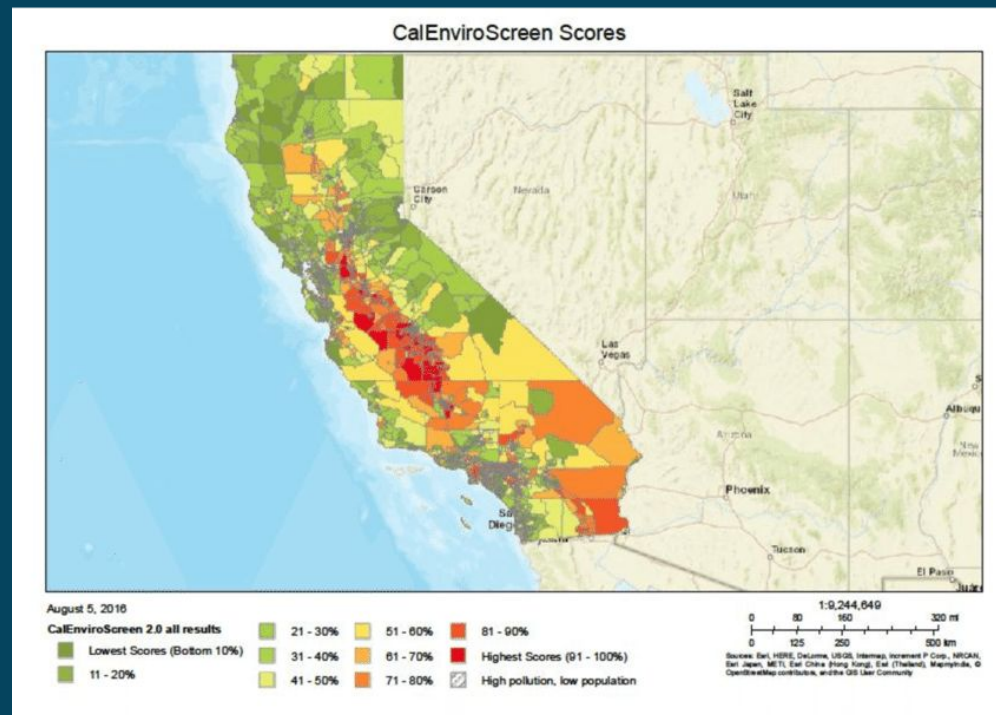
9. Sufficient Space for Battery Energy Storage System



10. Proximity – storage to meter



11. Location, DAC



12. Memorandum of Understanding can be readily executed

Checklist Wrap

NO, THERE IS NO IDEAL SITE!

- Every site will have challenges...
- But by focusing on these twelve site parameters...we can execute a program of mutual benefit for member agencies and the CPA.

D. Site Assessments

Member agencies submitted up to 5 sites each

EcoMotion's solar team evaluated over 120 sites for program eligibility

Assessments include:

- Solar potential

- Roof age and condition, structural integrity, SolarPort potential

- Storage location

- Identification of critical loads

- Review of electrical switchgear and infrastructure

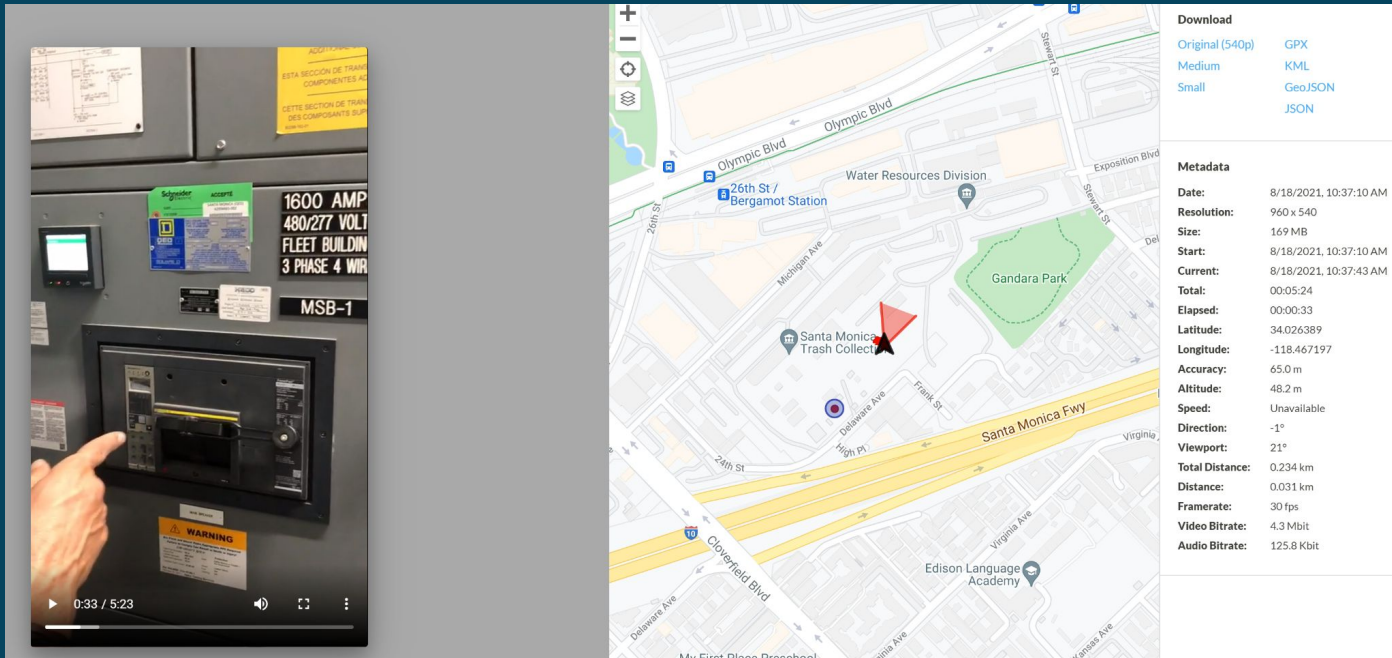
Site Visits and Data Collection

CPA Power Ready Site Visits EDIT APP

Search your data... 20 records CLEAR ALL FILTERS SAVE VIEW REFERENCE FILES DOWNLOAD DATA

Title	Address	Facility Contact(s)	Single Line	Type of	Proposed kW PV	Battery	Available Square Footage
Santa Monica	2500 Michigan Ave Santa Monica CA 90404	Drew Johnstone, 310-804-8449		Roof	345	Yes	Yes
Sierra Madre	232 West Sierra Madre Blvd Sierra Madre CA 91024	James Carlson, Sierra Madre Management Analyst: 626-355-	Sierra Madre Single Line.PDF	Roof	197	Yes	Yes
South Pasadena	416 Garfield Ave South Pasadena CA 91030	Anteneh Tesfaye, 213-618-0443; Ted Gerber, 626-375-		Roof	100	Yes	Yes
Ventura (City)	801 S Kimball Rd Ventura CA 93004	Brandon Kaysen (Supervisor): 916-677-9664 Wayne Hatch (Aquatic Facility Manager): 805-701-7300	Kimball Single Line, Original.PNG Kimball Single Line, Meter Split 2019.pdf	Carport	400	Yes	Yes
Ventura County	1910 Church St. Simi Valley CA 93065	Mike Duncan (Energy Manager): 805-658-4372	FS41_1986_Single Line and Plans.pdf	Roof	43	Yes	Yes
West Hollywood	7385 Santa Monica Blvd West Hollywood CA 90046	Kevin Trudeau	Weho As Built Electrical Plans (1).pdf	Roof	186	Yes	Yes
Westlake Village	31200 Oak Crest Drive Westlake Village CA 91361	Phillipe Eskander (818) 706-1613	Westlake Village Electrical Plans.pdf	Roof	257	Yes	Yes

Site Visits and Data Collection

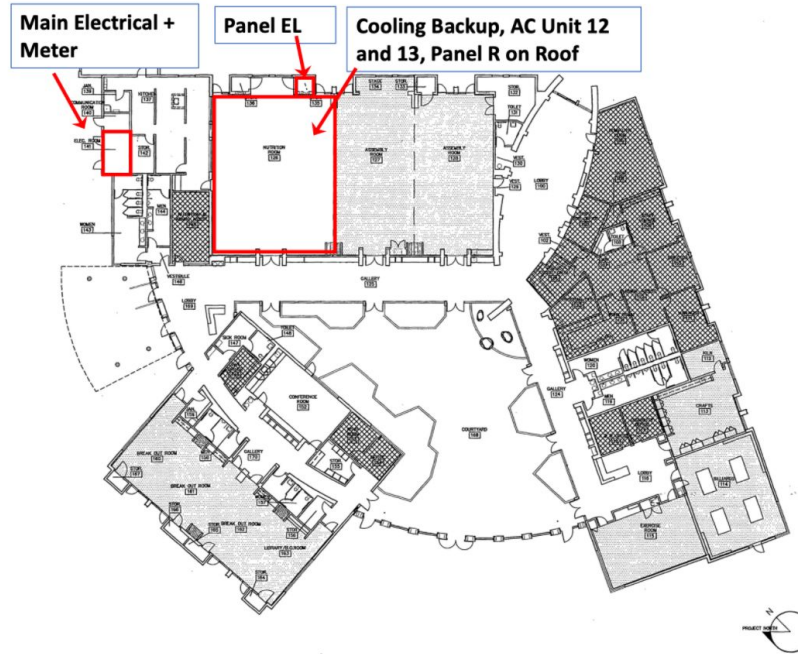


Solar and Battery Design



Critical Load Identification

space to remain operational in the event of an outage. The HVAC units to be backed up are AC12 and AC13, and the circuits are on Panel R, located on the roof.



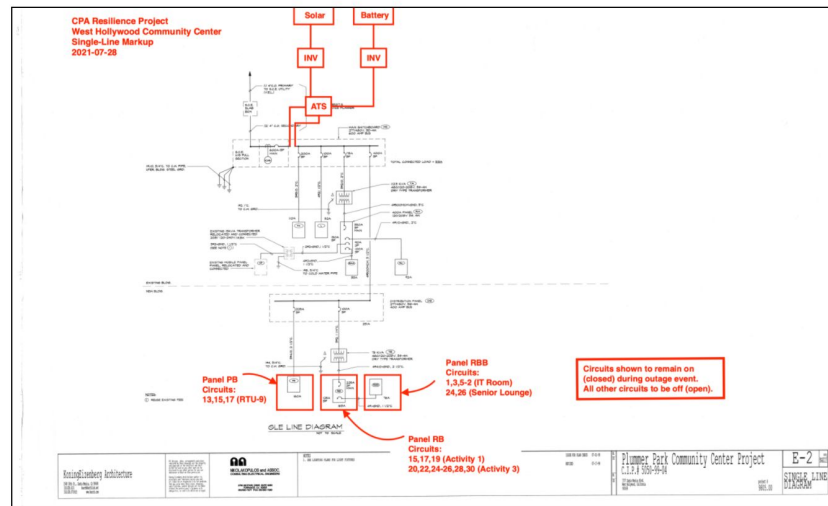
Critical Load Identification

Hard-Wiring for Resiliency

Specific circuits to be backed up are identified on the single-line markup in red.

Solar and Battery sources will connect to the Main Switchboard (Electrical Room 1) via an automatic transfer switch (ATS), and will provide energy in the event of a grid outage.

Additional information regarding critical loads and electrical and building plans are available in the Fulcrum App and Shared Drive.



Site Visit Narratives



Clean Power Alliance Power Ready Program

Last edited on August 24, 2021

Culver City Site Assessment Overview:

Senior Center

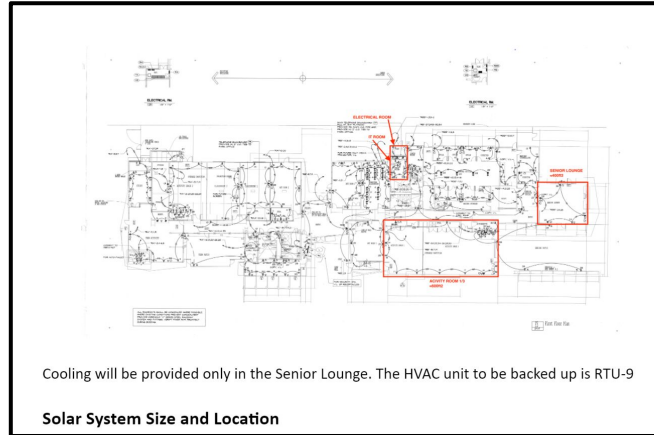
Address: 4095 Overland Ave, Culver City, CA 90232

Meter Number: 259000-052369

Solar Size	171 kW
BESS Size	67 kW / 267 kWh
Facility Age	2001
Facility Size	≈30,000 ft ²
Critical Loads	Lighting and Plug Loads, IT Servers, Cooling in "Nutrition Room" (HVAC Units #12, #13)

The Culver City Senior Center is centrally located in the community, adjacent to other major public facilities such as Veteran's Memorial Park. The Senior Center is designated as a Cooling Center during heat waves, and as an Evacuation Shelter during emergency events (in partnership with the Red Cross). There is a 100 kW diesel generator that backs up some critical lighting, plug loads, and internet, but no cooling or HVAC loads. The city hopes the Power Ready Program will supplement the resiliency provided by the generator.

Site Visit Narratives



E. Current Status

>120 summary assessments complete

~20 detailed site assessments complete

15+ sites in current portfolio; 7 - 8 sites in final process

Member agencies now reviewing MOUs for the PPAs

Expect to release RFP by year-end

EcoMotion's is also working for East Bay Community Energy

Energy Resilient Facilities Program

>300 facilities identified in 15 cities

EcoMotion working on first tranche of 40+ facilities

**Partnering w/ Point Energy Innovations, KPFF Engineering, Blues
Roofing**

Site assessments in Berkeley and Hayward thus far, 18 facilities

In Closing:

The Member Agency Value Proposition

- Member agencies pick the site
- CPA installs solar and storage and controls at no additional cost
 - Made possible through:
 - Solar savings
 - BESS Demand Saving
 - Energy Arbitrage
 - CPA Demand Response
- Member agencies get Energy Resilience in the event of an outage,
 - Minimum 4-hour systems reserved for critical loads



For more information, please
contact:

Ted Flanigan, President
(949) 292 – 7314, tflanigan@ecomotion.us

SoCalREN Advisory Committee Updates

Lujuana Medina & Laurel Rothschild

Resiliency Working Group

- Actively tracking the Microgrid Proceeding
- Restarting regular calls this month
- Focus on participating or launching a [Microgrid Incentive Program \(MIP\)](#)
 - 10 projects targeted for SCE territory
- SoCalREN will participate in Public Meetings to help structure the program and advocate for SoCalREN public agencies

Current Members

- Pam Bold, HSEF
- Garrett Wong, Santa Barbara County
- Kim Fuentes, SBCCOG
- Sona Coffee, City of Irvine
- Fernanda Craig, Los Angeles County
- Lujana Medina, Los Angeles County
- Alelia Parenteau, City of Santa Barbara
- Chris Moore, CPUC

MIP Key Upcoming WG Activities & Timeline

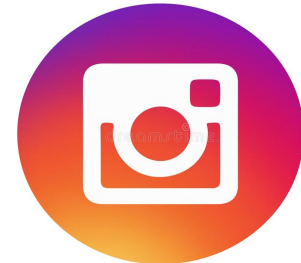
R.19-09-009 – Microgrid Resiliency Proceeding

- Recent Decision approved \$200 million statewide for MIP
 - Joint IOU Implementation Plan (IP) due October 4th, 2021
 - 10 microgrid projects per electric IOU territory
 - \$15m per project cap
 - Single customer projects are excluded
 - *We will be providing draft comments and seeking feedback from WG – IOU IP comments due October 24, 2021*
- Emergency Ruling
 - We will be submitting Reply Comments
 - Seeking WG feedback on proposed Reply Comments – due on October 1
 - *Doodle poll out for ad-hoc WG meeting*

SoCalREN Podcast & Social



Don't forget to listen to SoCalREN's podcast and follow us on social media!



<ul style="list-style-type: none">• SoCalREN's fourth episode of <i>ReEnergizing Communities</i> recently released!• Currently available on Spotify and Apple Podcasts platforms	@SoCalREN	linkedin.com/company/southern-california-regional-energy-network	@_SoCalREN	@_SoCalREN
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Online Resource for Advisory Committee Members



Advisory Committee



Working Group Updates

As needed documents such as operating structure, meeting minutes and opportunity trackers.

[More Info](#)



Regulatory Reports

Monthly regulatory reports and proceeding updates.

[More Info](#)



Advisory Committee Meeting Materials

Quarterly meeting materials such as agendas, minutes, presentations and other supporting documents.

[More Info](#)

Proposed 2021 Meeting Schedule



Quarter	Date	Time
Q1	April 7th	10:30 am - 12 pm
Q2	July 14th	10:30 am - 12 pm
Q3	September 22nd	10:30 am - 12 pm
Q4	December 15th	10 am - 1 pm

Please take a minute to complete our [Q3 Meeting Survey!](#)

Closing Remarks

Minh Le, Los Angeles County