Innovative Energy Solutions Showcase

November 12, 2026

CPA CLEAN POWER ALLIANCE

LACI





Objective: Learn more about innovative solutions that may help to address CPA member agency resilience, decarbonization, and electrification goals.

Webinar Agenda

- Welcome & Introduction
- Introduction to CPA's Innovation Fund Round 3 "Energy Resilient Communities"
- Innovation Fund Project Highlights Panel *Featuring Santa Monica's REACH Program & Culver City's Portable Battery Program*
- LACI Startup Cohort Solutions Showcase
- Q&A

CPA CLEAN POWER ALLIANCE

LACI

Introduction to CPA and LACI

CPA CLEAN POWER ALLIANCE

LACI's Mission In Action

LACI is building an inclusive green economy for Greater Los Angeles and beyond.







Unlocking Innovation

Incubating and accelerating clean tech startups and helping commercialize their technologies

Market Transformation

Accelerating cleantech adoption and system change by engaging key stakeholders and decision makers

Enhancing Communities

Working in collaboration with local communities, identifying sustainability challenges, creating opportunities and building a workforce pipeline

Clean Energy Partnership

The Clean Energy Partnership was formed to **accelerate the move to 100% clean energy while ensuring we meet the needs of transportation electrification, building decarbonization, and grid resiliency** in the Greater Los Angeles Region **by the time of the 2028 Olympic and Paralympic Games.**

LEADERSHIP GROUP

California Energy Commission | LA DWP Los Angeles Department of Water & Power | California ISO | City of Los Angeles Founded 1781 | County of Los Angeles California | CPA Clean Power Alliance – Locally powered energy innovation. | Southern California Edison

ADVISORY GROUP

Black & Veatch | Gradient | Pasadena Water&Power | Scale Microgrids | Schneider Electric | Sunrun | Wells Fargo

OTHER CONTRIBUTIONS

Accenture | Amazon Web Services | Ashipa Electric | The Eli & Edythe Broad Foundation | California Natural Resources Agency | Camus Energy C-ZAR Power | Electriq Power | Electrify America | Electrum | Fermata Energy | Google X | IBEW 11| LA28 | Los Angeles Business Council Los Angeles Better Buildings Challenge | Lightspark Inc | Molecule Systems | PCS Energy | Portable Solar | Rheem | Scale Microgrids Schneider Electric | Stantec | Tesla | University of Southern California | University of California, Los Angeles | U.S. Department of Energy Veolia | 3insys

LACI's Startup Programs

	Incubation Program	Market Access Track
What it is:	Program Development Period focused on Impact, Pilots, Market & Investment Readiness, plus executive coaching & fundraising support	A growth-stage program connecting proven cleantech solutions to market opportunities in Greater LA
Target Profile:	Pre-Seed to Series A startups TRL 4-9 Strategic Los Angeles Presence	Series A+ company looking deploy in Southern California
Industry Focus:	Clean Energy, Zero Emission Transportation, Smart & Sustainable Cities	Clean Energy, Zero Emission Transportation, Smart & Sustainable Cities
Program Length:	2 years	18 months
Cohort Size:	10-15	Rolling applications
Success looks like:	Raise first funding; Steady Revenue; Product Commercialization; Job Creation	Raise Series A - Series B; Transformative pilot deployment or commercial scale in Los Angeles
Investment Eligibility:	Eligible for LACI Impact Fund, Debt Fund, and external investor introductions	Eligible for LACI Impact Fund, Debt Fund, and external investor introductions (See MA Program Benefits)
Program Cost:	1.5% - 3.0% Warrant	Up to 1.5% Warrant



Clean Power Alliance Overview

- California's largest CCA serving more than 3 million residents and businesses through almost 1.1 million customer accounts
- #1 green power provider in the US per NREL
- Revenues (after costs for power and operations) are invested in programs to assist customers and communities



CPA's Local Customer Programs

Local Resiliency and Grid Management



- **Instant AC Savings:** $300 coupon at participating retailers
- **EV SmartCharge:** App to help customers save money by shifting when they charge
- **Power Response:** incentives for reducing energy use at times of grid stress
- **Apartment Building Cooling Assistance:** Rebates for property owners to install efficient cooling
- **Peak Management Pricing:** Summer bill discounts for reduced usage during peak days
- **Power Ready**: Clean energy backup systems for critical facilities

Building & Transportation Electrification



- **Energy Team:** Unbiased information on energy upgrades for homes or small businesses from a team of experts
- **Multifamily EV Charging:** Incentives and technical assistance for property owners to install EV chargers
- **Multifamily Efficient Cooling Partnerships:** Additional incentives available to CPA customers through the Regional Energy Networks.
- **Energized Communities:** Accelerates community sustainability goals
  - Building Electrification Assistance
  - Electric Fleet Transition Services
  - Community Electric Vehicle Charging
  - Innovation Fund

Local Clean Energy Procurement



- **Power Share:** local renewable energy at 20% bill discount for low-income customers
- **Sun Storage Rebates:** $750 - $2,250 rebates for homeowners who install a solar battery storage system
- **Solar & Battery Access Program:** No upfront cost solar and storage systems for income qualified customers

Residential
Multifamily
Commercial
Partner Communities

CPA

What is CPA's Innovation Fund?

A competitive funding opportunity for CPA's partner communities designed to fund inventive projects that support decarbonization, resilience, and equitable access to clean energy.

CPA CLEAN POWER ALLIANCE



Funds projects that address high-priority local needs identified by CPA's member agencies.



Supports CPA's Program Pillars:

- Resilience & Grid Management
- Building & Transportation Electrification
- Local Clean Energy Procurement



Drives impactful change by implementing novel and impactful solutions.

Current Innovation Fund Projects

Round 1 (selected March 2025)		Round 2 (selected December 2025)	
Carson	EV Charging Wallet Pilot Program	Alhambra	Equity-Driven Green Equipment (EDGE) Pilot Program
Culver City	Portable Battery Fleet Program to Replace Gas Generators	Carson	Residential Lawn and Garden Equipment Rebate Program
Santa Monica	Renter's Energy and Cooling/Heating (REACH) Program	Los Angeles County	Cool Healthy Homes
West Hollywood	Equitable Building Performance Standards and Benchmarking Support	Thousand Oaks	Residential Induction Stove Rebate Program
		Ventura County	Skilled and Trained Community Heat Pump Rebate
		Whittier	EV Cruiser Program

The $2M Innovation Fund Round 1 and 2 portfolio includes 10 projects selected from 22 applications.

CPA's Innovation Fund Round 3

CPA CLEAN POWER ALLIANCE

What is CPA's Innovation Fund Round 3?

"Energy Resilient Communities" Funding Opportunity

Projects must be primarily tied to the "Resilience Sub-Pillar"



Resilience

Projects that connect to multiple pillars – including grid management, building & transportation electrification, and local clean energy procurement – will score higher

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Up to $1.5M available (up to $250,000 per award) with **prioritization given to member agencies not awarded in Rounds 1 & 2.**

3-year project completion window

Applications are **due March 5, 2027**, with project selection planned for CPA's June 2027 Board meeting.
Learn more at: cleanpoweralliance.org/innovation-fund

Project proposals should help CPA's partner communities *maintain essential services* or *community refuge capacity* during power outages and emergency events.

Energy Resilient Communities: Project Examples

Sustaining Critical Services

- Portable/mobile battery fleet or dedicated battery backup for water/wastewater pumping, cold storage at a food bank, traffic signals, or other use cases*
- Installation of microgrid controls integrated with existing site solar/storage
- Vehicle-to-Building pilot using passenger vehicles or buses to provide backup power

Powering Resilience Hubs

- Portable/mobile battery fleet or dedicated battery backup for essential services such as cooling or air filtration at a community resilience hub*
- Portable/mobile battery fleet or dedicated battery backup for essential equipment such as medical devices or other electronic devices at a community resilience hub*

Projects must use electricity provided by a CPA service account.

***Ensure that project applications are not duplicative with CPA's Power Ready or Energized Communities Pathways programs.**

Innovation Fund Project Highlights Panel

Featuring Santa Monica's REACH Program & Culver City's Portable Battery Program

CPA CLEAN POWER ALLIANCE

Innovation Fund Round 1 Awardee Spotlight: Culver City & Santa Monica

Culver City: Portable Battery Fleet

Awarded $164,000

- **Objective:** Lease and operate a fleet of batteries that are loaned to community vendors and event organizers to replace use of gas-powered generators.

Santa Monica: REACH Program

Awarded $249,100

- **Objective:** Develop an incentive program offering energy-efficient electric appliances (heat pumps, portable batteries, other equipment) to income-qualified renters.

Objective

Replace Generators with Batteries

Pros

- Reduce GHG
- No Noise
- No Fumes

Cons

- Cost
- Weight
- Recharging Time
- Carnival Rides



City of Santa Monica – Renter's Energy and Cooling/ Heating (REACH) Program

- **Budget**: $249,100
- **Focus Areas**: Indoor air quality, comfort, resiliency, and GHG reductions
- **Offering**: Free portable room heat pumps, air purifiers, and battery storage systems (up to 2 per applicant)
- **Eligibility**: Income-qualified renters (CARE/FERA, SNAP, etc.) who are CPA customers
- **Partners**: The Energy Coalition and Sustainable Works
- **Selection Process:** Multiple lottery drawings (target: 250 households served)







City of Santa Monica

City of Santa Monica – Renter's Energy and Cooling/ Heating (REACH) Program



Program Metrics as of November 2026

- 324 applications received
- 65 households served
  - 46 air purifiers
  - 39 heat pumps
  - 40 batteries
- Collecting qualitative data and limited utility bill data

Next steps

- Share knowledge with peers working on Direct-to-Renter programs
- Identify opportunities to expand and improve the REACH program
- Explore additional policies & programs that support resilience and in-home comfort

City of Santa Monica

LACI Portfolio Company Showcase

merino

LACI

Innovation Showcase

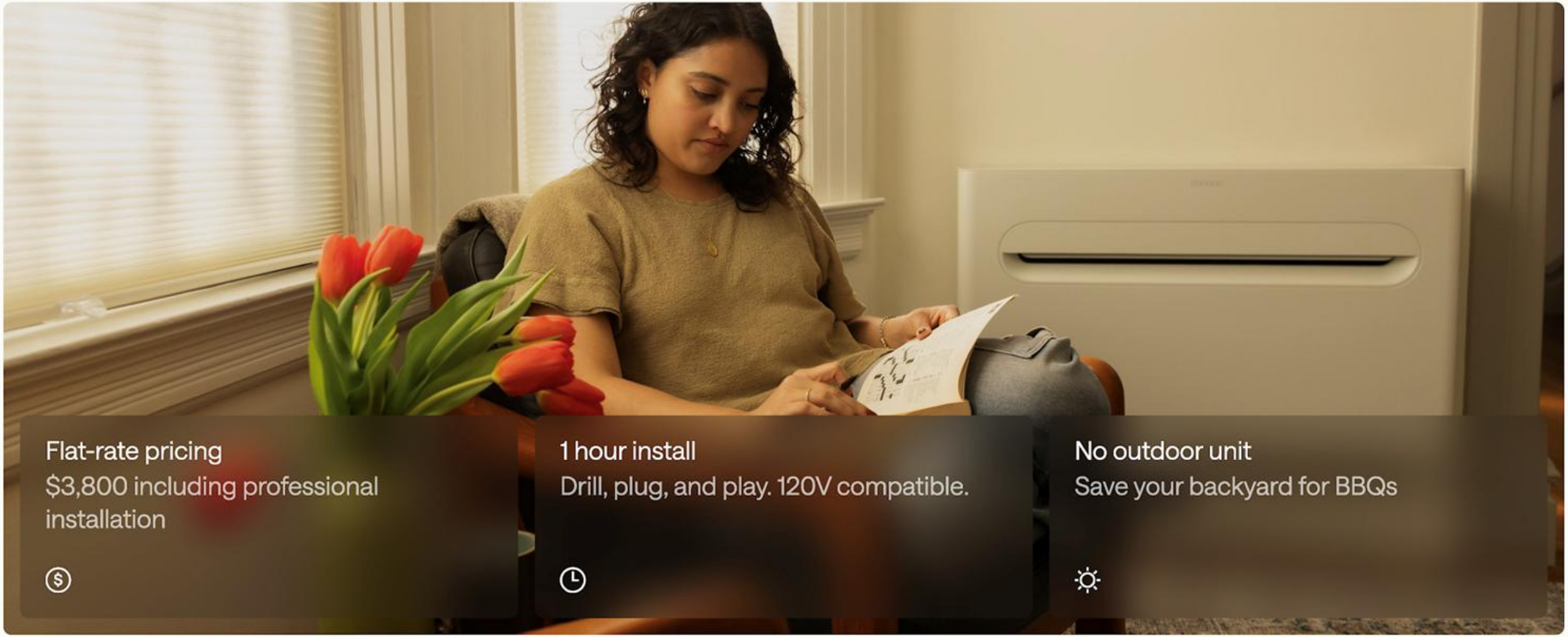
Mary-Ann Rau & Brad Hall

Co-Founders
Merino Energy


merino

What We Do

Electric cooling and heating in 1 hour or less.
No outdoor unit. 120V compatible.



The Homes We Serve

Merino is the room heat pump designed to work for all of the homes where traditional HVAC doesn't quite fit.

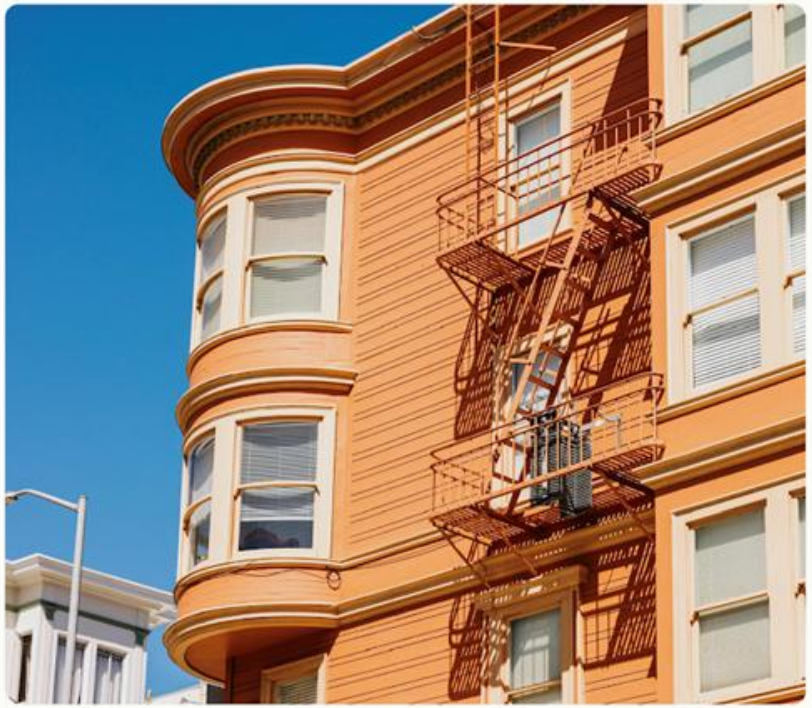
Old homes with no cooling



Small single-family homes with limited outdoor real estate



Condos with HOAs



Geographic Footprint

Started by Californias for Californians. Needed by Americans across the US.

1. **Bay Area:** in-market today
2. **Los Angeles**: in-market as of Q4 2026
3. **PNW & beyond**: 2027





Innovation Showcase

Thomas Wilde

Director of Channel Partner Sales
Copper

COPPER

Building electrification, the easy way.

Charlie, the induction range with a battery built in

THOMAS WILDE, DIRECTOR OF CHANNEL SALES · CPA INNOVATION FUND SHOWCASE AT LACI · NOVEMBER 12, 2026



COPPER

CPA INNOVATION FUND SHOWCASE

Electrify the kitchen. Leave the panel alone.

Charlie is a full-size induction range with a 5 kWh battery built in. It plugs into a standard 120V outlet: no new 240V circuit, no bigger panel, no service upgrade.

THE PROBLEM: THE LOAD MATH

A standard range needs a new 40–50A, 240V circuit. On a 100A panel that's also taking a heat pump, that's where the project stalls.

Heat pump + standard induction range: over the 100A limit



Heat pump + Charlie on the existing outlet: headroom left



Black line = 100A panel limit. Illustrative; confirm with a load calculation.





THE TECHNOLOGY

A flexible load, not a new peak.

<1.5 kW	5 kWh	0	3–5
max draw (120V, 11.9A) from a standard outlet	LFP battery, charges off-peak or on solar	new circuits, panels or service upgrades	meals per charge in a power outage

Cooking moves off the evening peak

Charges when power is cheap or clean, then cooks from its battery during the peak.

Avoids costly electrical upgrades

No new range circuit, so the kitchen swap stays off the panel.

Room left for the heat pump

Panel capacity stays free for the heat pump, HPWH or EV charger.

Connected and schedulable

Wi-Fi and Bluetooth; by default, charges when renewable energy is likely available.



THE PROOF

Proven in affordable housing.

$12K

avg. electrical upgrades avoided per unit across 141 LA affordable apartments

Up to 10,000

for NYC public housing (NYCHA, NYPA, NYSERDA), following a 100-unit pilot

Here in CPA territory: Optima Energy installed Charlie in LA affordable housing in February 2026, at no cost to residents.

THE ASK · INNOVATION FUND ROUND 3

Pick a city-owned or affordable property. We'll scope it with you and Optima: electrification and resilience in one project.

Thomas Wilde, Copper · thomas@copperhome.com



Innovation Showcase

Stephan Ng

Founder and CEO
Moon Five Technologies

Moon Five

Dedicated, renter-led EV charging.

RENTERS PAY	RENTERS SAVE	OWNERS PAY
$50 a month	**$800–$14,000** a year	**$0** to install

- Renters qualify the building. We install and manage.
- Installed in weeks, not months.
- Built for bidirectionality.
- Backed by REACH 3.0. Awarded national Scale Catalyst by the Electric Innovation Initiative, 2026.



Moon Five

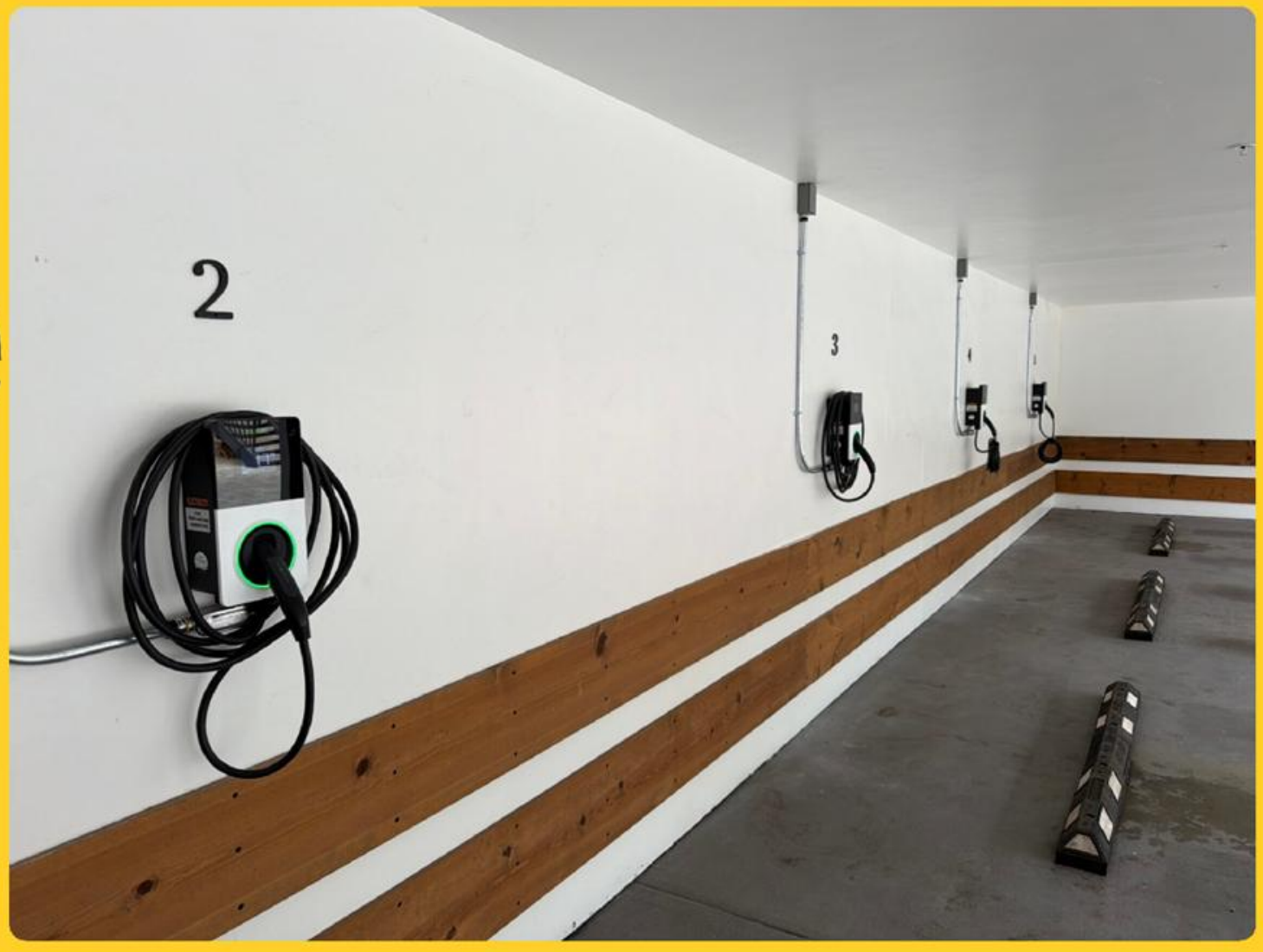
CASE STUDY

Burlingame

43%–63%

building adoption

Neighborhood effect



Moon Five

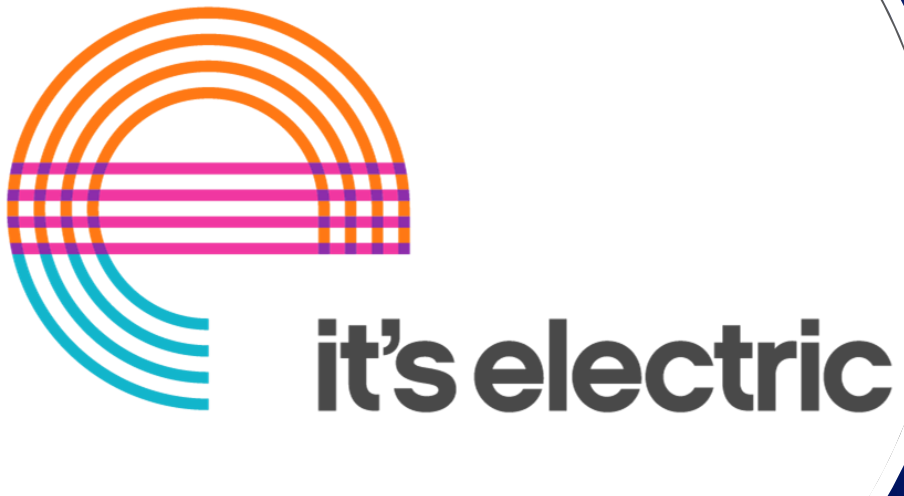
Join Moon Five.

Help renters decarbonize. Build the infrastructure for electrical resiliency.

LET'S TALK

Stephan Ng
Founder and CEO
stephan@moonfive.tech · moonfive.tech





LACI

Innovation Showcase

Tiya Gordon

Co-Founder & CEO
it's electric

The World Is Electrifying.

it's electric owns Urban Energy Infrastructure



it’s electric is the world’s first public charging system powered by buildings

Solving the biggest barrier cities and property owners face in the deployment of chargers



Live Charger / Fillmore Street, San Francisco 04.2025

We utilize existing residential and commercial infrastructure to power curbside chargers

We also utilize direct utility connections when partners prefer.

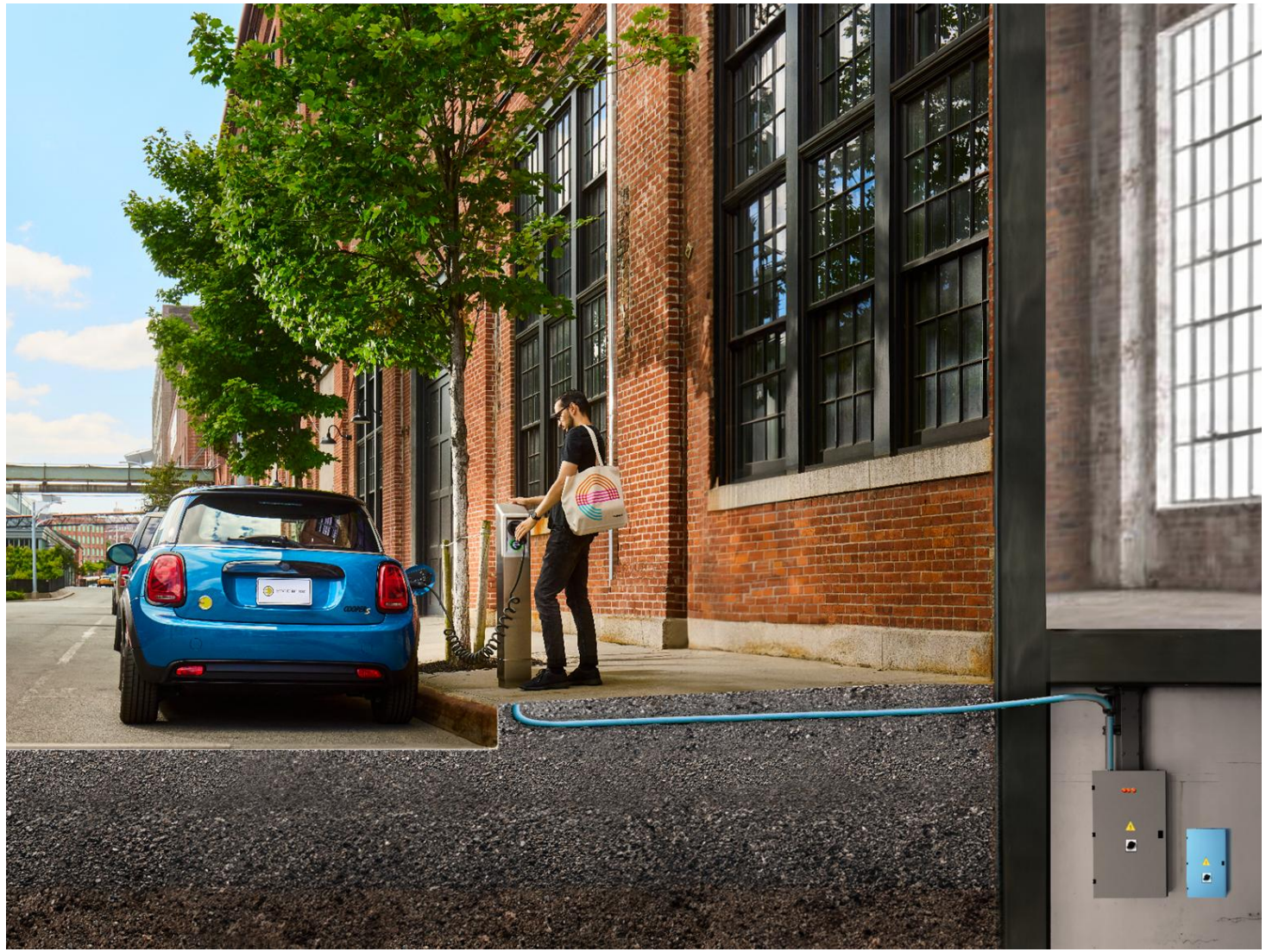


Diagram Rendering

We are also **the only** US company to offer a detachable cable



Keeping streets free of cables when a car is not charging



The only network that converts street parked EVs as the next demand V2G response asset class

California alone: 9GW potential



Innovative EV Charger Secures CEC Grant

Brooklyn-based it's electric secures $1.1M CEC grant to develop the world's first curbside vehicle-to-grid EV charger, enhancing grid stability

Press Release



it's electric LA extends the electrical infrastructure BlueLA brought to the curb, by expanding access creating fully public charging close to where drivers live.



LACI

Innovation Showcase

Asher Popper

Founder and CEO
Popper Power

POPPER POWER

Solving peak demand overload for utilities

Palo Alto, 2026

Selected by

THE UNIVERSITY OF CHICAGO · techstars_ · LACI · MARL · COLUMBIA TECHNOLOGY VENTURES

v.26.11.3

asher@popperpower.com

Our solution: Pole-mounted Energy Hubs

We connect millions of EV batteries to the grid through 50 million streetlight poles.

Building the largest distributed energy storage on existing infrastructure.



Behind-the-meter plug-in PowerPole®

- Battery storage built-in
- Bi-directional DC socket
- Utility-preapproved grid interconnection
- AI runs mesh Distributed Energy Resources
- No retrofit. No trenching.



Evolving the Solution



2023 – POC 2 years in field



2024 – Tested prototype



2026-27 – 7 Pilots



2028 – Recurring revenue

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A Cohesive team to take this from prototype to deployed grid infrastructure



Asher Popper

Founder & CEO

Energy Infrastructure

Business Development

M&A Exits



Vadim Balashov

CFO



Tim Zhuchenko

Partnership Leader



Andrew Zinovev

CTO, Battery Leader



Kirill Mosienko

AI/Software Leader



Michael Bakunin

Advisor · CEO, Epic Charging



Ian Vishnevsky

Advisor · COO, Epic Charging

HomeRES

LACI

Innovation Showcase

Grace Mase

Founder & CEO
HomeRes

WHY IT MATTERS

Most people never hear about incentives they qualify for

Pamphlets and workshops only reach people who go looking.

Grace Tsao Mase

Eaton Fire evacuee, 2025

Founder + CEO of **HomeRES.ai**

Fast Company World Changing Ideas 2026 Award Winner

AIA Associate · M.Arch., Yale University · B.A. Architecture, UC Berkeley

NASCLA-accredited · Multi-state licensed contractor

25+ years in digital innovation · 3 U.S. Patents

Author, *AI in Residential Construction* (NAHB, 2026)



HOW IT WORKS

Homeowners claim incentives, contractors install equipment, cities get proof.

1 · Enter an Address

See natural hazards and the upgrades that matter most, such as backup power and electric appliances and equipment.

2 · Stack Every Incentive

CPA's Sun Storage Rebate and other programs stacked in one bid, with qualifying equipment flagged, payback and ROI calculated.

3 · Apply and Manage

File incentive applications and track each project from first bid through warranty, with full project management.

HomeRES.ai matches incentives, rebates, tax credits and grants to each home and owner · Every program verified by our team
Batteries can join CPA's Power Response

FOR YOUR CITY OR COUNTY

How HomeRES helps your city or county

Backup Batteries Where They Matter Most

Income-qualified and medical-equipment homes on CPA service. Contractors trained on manufacturer specs, every install tracked.

Reach Owners When They're Deciding

Contractors are at the table when owners choose equipment, so they can guide them toward CPA programs.

Show the Proof

Backup power added, rebates claimed, bills saved and performance tracked. You see what got built, not just what was permitted.

RESULTS SO FAR

Homeowners and contractors say yes

92%

Upgrade Acceptance

of homeowners accept at least one upgrade[1]

26–48hr

Research Saved

per estimate, per contractor feedback[2]

1,000+

Contractors Trained

using AI to build resilient, efficient homes across the country this year

800+

SoCal Builders Next

to be trained in early 2027

Pilot in development with **Habitat for Humanity of Greater LA**, supported by LACI

[1] HomeRES customer data [2] HomeRES contractor feedback on research time





PARTNER WITH HOMERES.AI

HomeRES.ai puts every incentive and equipment choice inside the contractor's bid and every install in the project record, so homes get upgraded for resilience and you can prove it.

> **What's your community's biggest outage risk?**
> Let's meet and build your application around it.

Scan to schedule a call

gmase@homeres.ai · 818.859.3628 · homeres.ai

DELPHIRE

SMART EMERGENCY DETECTION

LACI

Innovation Showcase

Gilberto DeSalvo

Co-Founder & CEO
Delphire

WILDFIRE IGNITION AND THREAT DETECTION.

Real time visual situational awareness — from anywhere.

Contact: Gilberto DeSalvo, PhD
CEO & Founder
gdesalvo@delphiretech.com
626-399-7019

U.S. DEPARTMENT OF ENERGY AWARDEE™

DELPHIRE

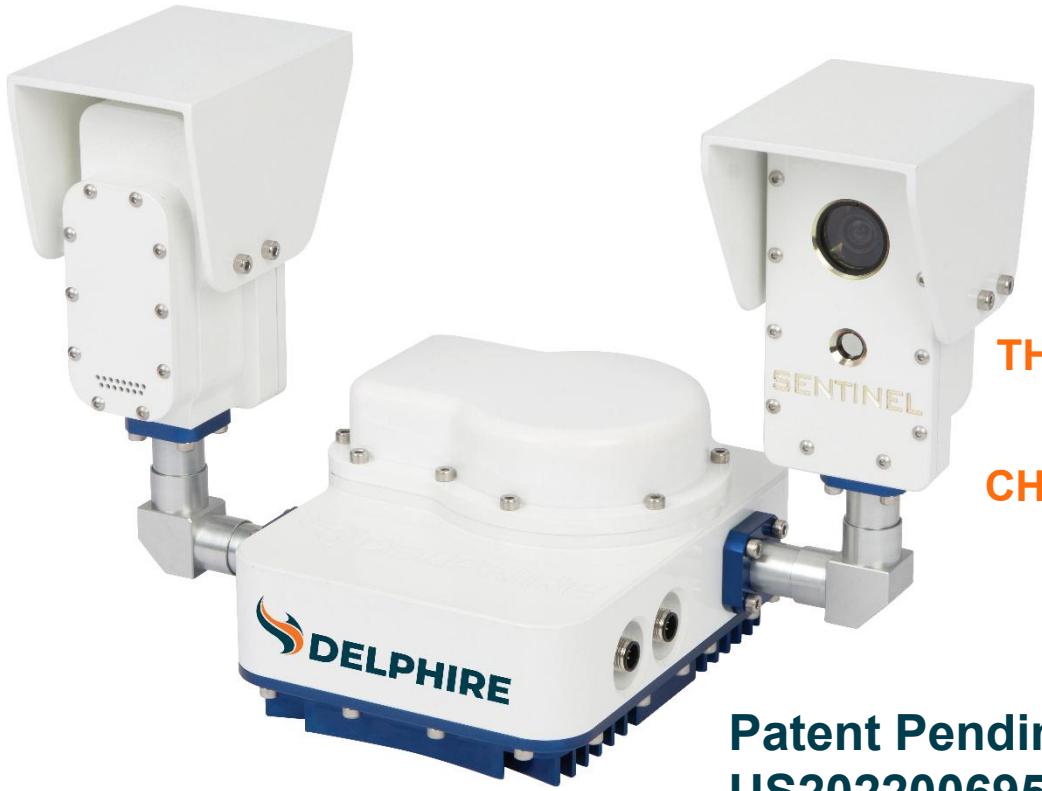
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SENTINEL FEATURES:

- **Multiple Smart Detection Sensors.**
- **Lightweight / Easy Installation.**
- **Solar / Battery Powered (3-Days).**
- **Onboard LTE Communications.**

Anterix ACTIVE powered by verizon business

- **Multiple Satcom Options.**



VISUAL

THERMAL

CHEMICAL

Patent Pending
US20220069577A1

CAGE CODE: 8RX15





WILDFIRE DETECTION

U.S. DEPARTMENT OF ENERGY
AWARDEE™



ASSET HEALTH (POST STORM)
+ RIGHT OF WAY MONITORING



Gaia

LACI

Innovation Showcase

James Highsmith

Co-Founder & CEO
Gaia Agricultural Technology

Gaia

▪ Distributed infrastructure, reimagined

Turning energy into infrastructure

SUPPORTED BY

techstars_ atdc GEORGIA TECH LACI TEDCO LEADING INNOVATION TO MARKET

theGaiabox.com

Power where communities need it. Without rebuilding the street.

Local power needs shouldn't require major construction.







Gaia

One system. Power, resilience, and public value.

Localized power. Green infrastructure. Energy storage. Back up potential









Deployment Site: 1255 Flower St, Los Angeles, CA

Gaia

SCALE

One system solves one location. Multiple systems create distributed infrastructure across the property.



Start where power is needed. Expand across the site as new needs emerge.

Gaia



Innovation Showcase

John Carl

Co-Founder and COO
ThermoShade

ThermoShade

COOLING INFRASTRUCTURE

Smarter Protection From Heat



ThermoShade is designed to maintain ~73°F surface overhead

Field Validation - Fresno, CA; 85°F air



Conventional metal roof

125.1°F



ThermoShade panel roof

74.7°F

~50°F cooler surface, side by side





Case Study: LA Metro Pilot

North Hollywood Station · six-week deployment with LA Metro and LACI, summer 2026



"You need to put more out here...!"
Metro CIS worker



Riders chose it over sun-exposed benches



Fully off-grid: solar + battery, no utility hookup

100% of surveyed riders reported relief at 79–104°F

73% felt "cool & at ease" or "comfortable"

0 vandalism incidents in six weeks

© ThermoShade 2026

Built for Energy-Resilient Communities

WORKS IN OUTAGES

Keeps cooling when the grid goes down

Off-grid solar + battery Oasis units run independently. Phase change material absorbs heat passively and recharges only when needed.

ADDS REFUGE CAPACITY

Extends resilience hubs outdoors

Add cooled outdoor space at cooling centers and resilience hubs, and redeploy Oasis units where heat emergencies hit.

EVERYDAY BENEFIT

Daily heat relief, little to no peak load

Parks, transit stops, and community centers. No water, and little or no peak electricity on hot afternoons.

TWO WAYS TO DEPLOY

Oasis: redeployable 10'×10' off-grid units | **Permanent panels:** built into new or existing structures

© ThermoShade 2026

ThermoShade

Interested in partnering on a proposal?

hello@thermoshade.co

GetThermoShade.com

EFFECTIVE
~73°F surface overhead

SUSTAINABLE
No utilities required

RELIABLE
Performs in all climates

Questions?

Contact Information:
Jennifer Gorman, jgorman@cleanpoweralliance.org

or
EnergizedCommunities@cleanpoweralliance.org

Appendix

CPA CLEAN POWER ALLIANCE

Application Timeline

