

# The time is now for Palisadians to go Solar

Get up to 4 proposals for free. No commitment required.

[Go Solar](#)

# Welcome to Resilient Palisades

Nonprofit 501(c)(3) organization founded in 2019 by Palisadians concerned about climate change and engaging with neighbors, local businesses, schools, and other organizations on projects that help our community develop a more sustainable way of living.

## Community Teams

### Clean Air and Water

Gas-Free Gardens Campaign

### Plant-based Solutions

Pali VegFests

### Zero Waste

Choose to Reuse

Cut out Cutlery

Commit to Compost

### Clean Energy Resilience

Pali Microgrid



# Benefits of Rooftop Solar and Storage



Reduce emissions



Increase resilience



Save money



# Combat Climate Change



**More than a third** of U.S. GHG emissions result from the burning of fossil fuels for electricity usage in buildings and homes.

In 2020, LADWP powered homes using 63% non-renewable resources and in 2017 it generated **9,554,443 metric tons of CO2**.

The average U.S. residential customer uses around 10,909 kWh per year! A modest-sized solar system can reduce usage by approximately 80%, with others approaching 100%.

**Rooftop solar and storage allow us to do our part!**

# Increase Resilience



**Pacific Palisades has experienced and will continue to experience more than our fair share of blackouts.**

- 19 major outages in the El Medio Bluffs alone since 2018

## Why is that?

- LADWP did not improve distribution and capacity to meet our community's growing power needs due, in part, to local opposition to new infrastructure in our neighborhoods.

**This will not improve on its own and will continue to worsen.**

- In the event of even a minor natural disaster, geographic isolation combined with antiquated and limited electrical distribution means trouble.

## What's the solution?

- **Solar + battery storage** can provide a household with days of power to operate top priority appliances/devices.
- Microgrid allows participating homes to pool power, which significantly increases resilience throughout the community.

# What is a Microgrid?

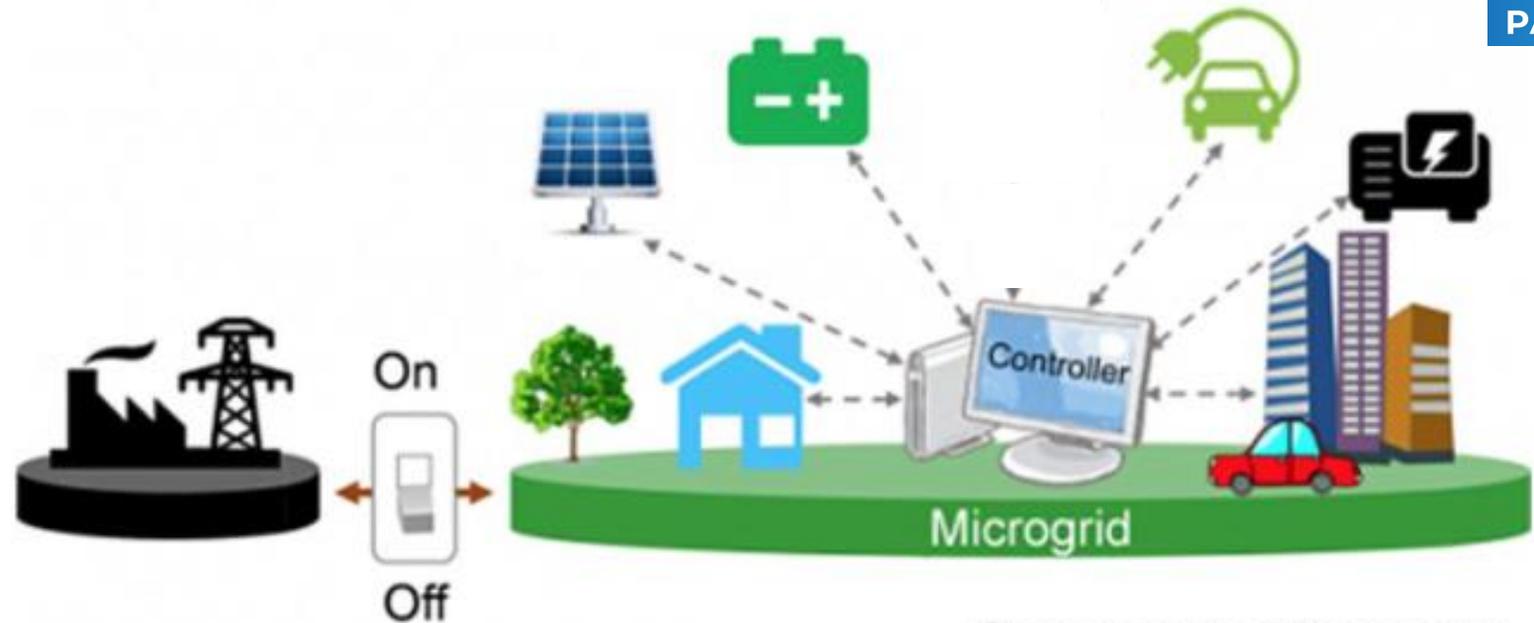


## Elements

- Solar panels
- Battery storage
- Control system
- Automatic transfer switch

## Benefits

- Reduce emissions
- Reduce electricity bills
- Increase resilience and reliability



**Community Microgrid**

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# Our Goal: PALI MICROGRID PROJECT



## One of the first in the country

- Microgrids are primarily in industrial/commercial installations
- Handful of residential microgrids, almost all in newly built communities
- Leveraging learning from EcoBlock microgrid in Oakland
- Support from elected officials and industry experts
- Grass roots effort; no companies involved

## Two-phase approach

- Phase I: Community effort to install solar + storage + control – leveraging volume to get lowest possible prices
  - RFP process with vendors
  - Ensuring equipment is compatible with Phase II
  - Coordinating with LADWP to prepare for Phase II
- Commence Phase II: Begin with pilot neighborhood (highest solar + storage density); likely multiple microgrids at first

# Last Fall We Ascertained Interest



## Community outreach

- Community outreach
- Social media
- Traditional media
- HOAs
- Postcards to every door

**Palisadian Neighbors:** 

**Would you like to...**

- **Avoid power outages?**
- **Reduce emissions?**
- **Save on electricity bills?**

Resilient Palisades is launching a **community microgrid** to lower electricity bills, reduce emissions, and improve the resilience of our community, which is underserved by LADWP. Microgrids consist of solar, storage, and control, allowing communities to meet their energy needs locally.

The **Pali Microgrid** has the potential to be one of the first of its kind in California and the U.S.

As a first step in this initiative, we ask that you please complete this 5-minute online survey at:

[resilientpalisades.org/survey](https://resilientpalisades.org/survey)

Our success depends on your input, so thank you. 

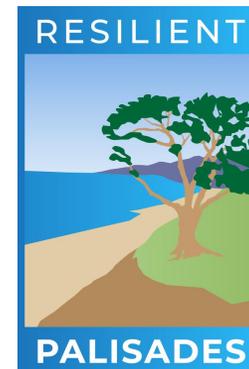
- Your friends and neighbors at Resilient Palisades

& gathered information in order to send RFPs to vendors

# GOAL: COMPLETE SURVEY

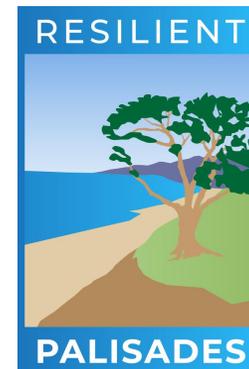
## ~400 responses

## + Began Coordinating with LADWP



- Very receptive; recognize they need to figure out how to handle microgrids
- Seeking additional distributed energy resources for the Palisades
- Been approached previously by other groups with less organization and expertise
- Say they're excited to partner with Resilient Palisades to make the Pali Microgrid the first in the DWP service area
- Established a working group led by program manager for distributed energy resources, and including director of Clean Grid L.A. Strategy
- Priorities:
  - Streamlining interconnection for Phase I
  - Investigating engineering for Phase II

# Energy Efficiency and Electrification



Reducing GHGs requires more than just adding solar – you also need to stop burning natural gas and electrify your household appliances and transportation.

Consider adopting efficiency measures as you install your solar system – saving energy is important!

If you plan to electrify your space or water heater or add an electric vehicle charger, inform your installer so they can size your system accordingly.

Watch for future RP presentation on electrification and energy efficiency!

# Why Go Solar Now?

- 26% Federal Solar Tax Credit (extended to end of 2022)
  - Allows for deduction of 26% of cost of installation
- Self-generation incentive program (SGIP) through SoCal Gas still in place
  - Battery rebate (est. 15%)
- Net Metering proposal is likely to reduce incentives and increase cost of rooftop solar
- Pali Microgrid group purchasing program ensures most competitive rates and highest service levels
- Expedited LADWP interconnection of solar and storage installs
- 2023-24: first microgrid(s) starting in neighborhoods with highest density



# RFP Process



- Comprehensive RFP with exhaustive criteria for selection:
  - Pricing 40 points
  - Scope of services 40 points
  - Project design 30 points
  - Team qualifications 30 points
  - Firm profile 20 points
  - Local office 10 points
  - Employ. practices 5 points
  - TOTAL 200 points
- 5 finalists were interviewed
- Top 4 firms were selected

# Guarantees to RP



- Each selected installer agreed to the following:
  - **Responsiveness** guarantees
  - System installation **timing** guarantees
  - **Warranties**: installers commit at least 10 years workmanship and 10 years equipment
  - **Customer protections** including ability to cancel contract within 3 days of execution; insurance coverage
  - Providing **operations manual** outlining how system works, with an explanation of how customer can monitor system, and process to address any issues as they arise
  - Enhanced **monitoring** of system performance
  - **Education** on energy rate plans with your utility provider
  - **Evaluation** of electrical panel for full upgrades
  - Guidance to evaluate/upgrade your home with **energy efficiency measures**
- Perhaps most important, each installer submitting standard RP cover sheet so you can compare proposals on an apples-to-apples basis

# Cover Sheet



INSTALLER INFORMATION		CUSTOMER INFORMATION		
Company	Simply Solar LLC	Name	[REDACTED]	
Employee	Matt Ferrari	Address		
Email	Mferrari@SimplySolarSoCal.com	Email		
Phone#	818-516-3549	Phone#		
<b>Description</b>				
Solar System + Battery				
SYSTEM INFORMATION				
Equipment	Brand		QTY	
Solar Panels	Solaria 400 All Black		12	
Inverter	Enphase IQ8+		12	
Battery	Enphase 10.5kWh Battery		1	
Main Breaker Derate				
Other				
System	Size	Unit	Price per unit	Total Cost
Solar	400	Watt	3.63	\$17,424.00
Battery	10500	kWh	1.83	\$19,215.00
Other Upgrades:				
<b>TOTAL COST</b>				<b>\$36,639.00</b>
Rebates after install				
			Federal Tax Rebate:	\$9,526.14
			SGIP Battery Rebate:	\$2,100.00
			<b>Cost after Rebates:</b>	<b>\$25,012.86</b>
Notes: Battery price includes connections for up to 10 circuits in your home. Other options available.				

## Pali Microgrid Summary Proposal

Date: 1/28/2022



# Process

1. Complete form on Pali Microgrid site: <https://resilientpalisades.org/microgrid/go-solar/>
2. Installers submit summary proposals with RP cover sheets
3. Installers follow up
4. You tell one or more installers you'd like a full proposal
5. Installers deliver full proposal
6. You select installer
7. Installer manages project, keeping RP informed at each stage
8. RP project manager available for troubleshooting
9. RP helps with LADWP interconnection



# Introduction to Installers





## HELP US SPREAD THE WORD

- Building a microgrid in the Palisades depends on density of solar + battery storage
- LADWP is watching closely. If Phase I is successful, they're going to work with us to launch Phase II next year
- Encourage your friends and neighbors to sign up for proposals