



# Community Energy Resilience Planning 101

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***“California’s Heat Wave Sets Records, and Stretches Power Grid”*** --New York Times

BAY AREA

## **Rolling blackouts reported in Bay Area cities**

by: [Phil Mayer](#)

Posted: Sep 6, 2022 / 03:49 PM PDT

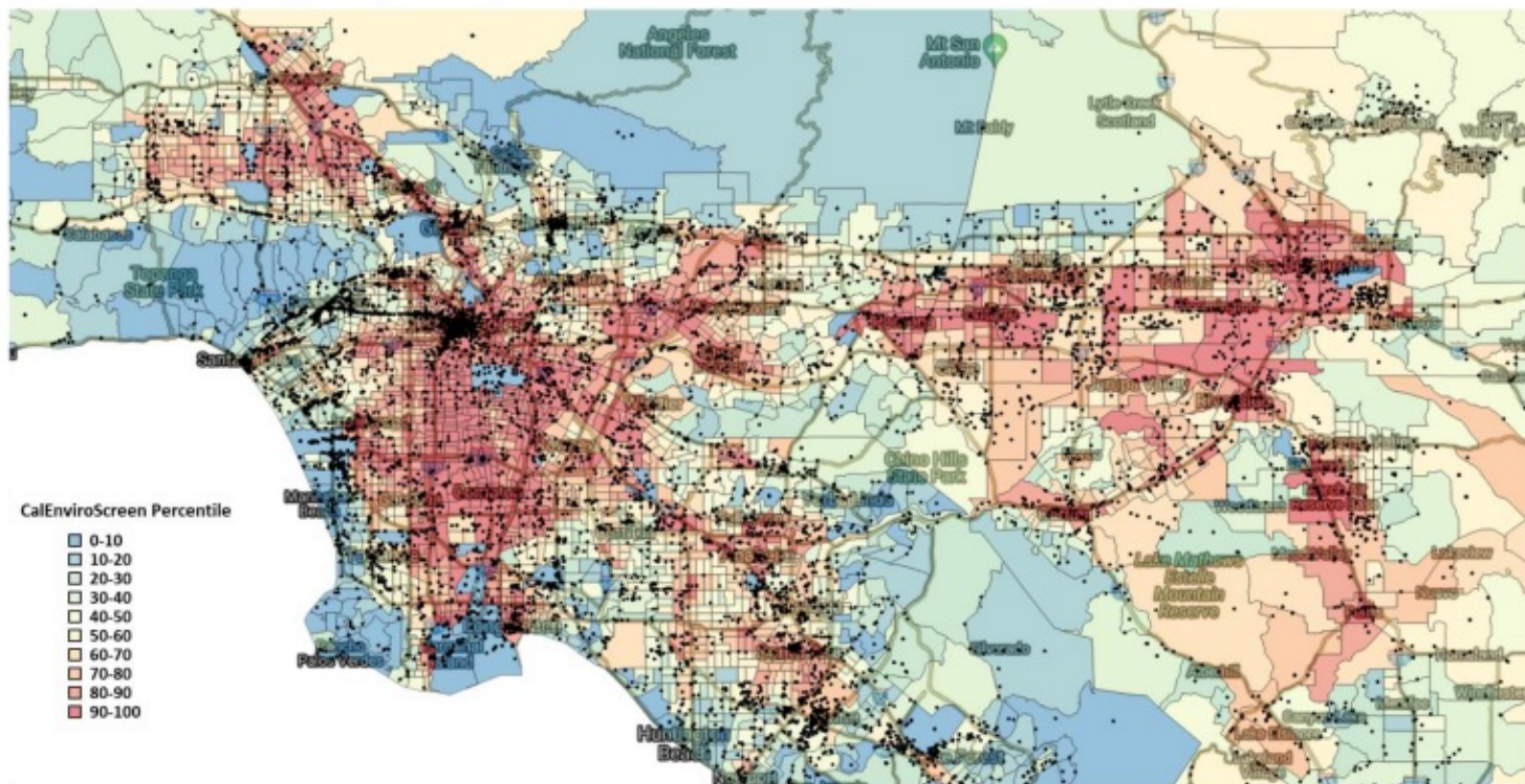
Updated: Sep 6, 2022 / 09:34 PM PDT

**“There’s almost no statistic or dimension of this fire season 2020 in California that wasn’t astonishing or horrifying,”** Daniel Swain, a climate scientist at UCLA’s Institute of the Environment and Sustainability.





## South Coast Air Quality Management District Back-up Generators



*There are almost 14,800 BUGs capable of generating 7.3 GW in South Coast. The map shows the siting of these generators in the context of CalEnviroScreen; red/orange indicates the most environmental burdened, vulnerable communities, blue/green the least.*

**Figure 2: Map of SCAQMD BUGs<sup>26</sup>**

Source: Moss & Bilich, M.Cubed; <https://www.bloomenergy.com/wp-content/uploads/diesel-back-up-generator-population-grows-rapidly.pdf>

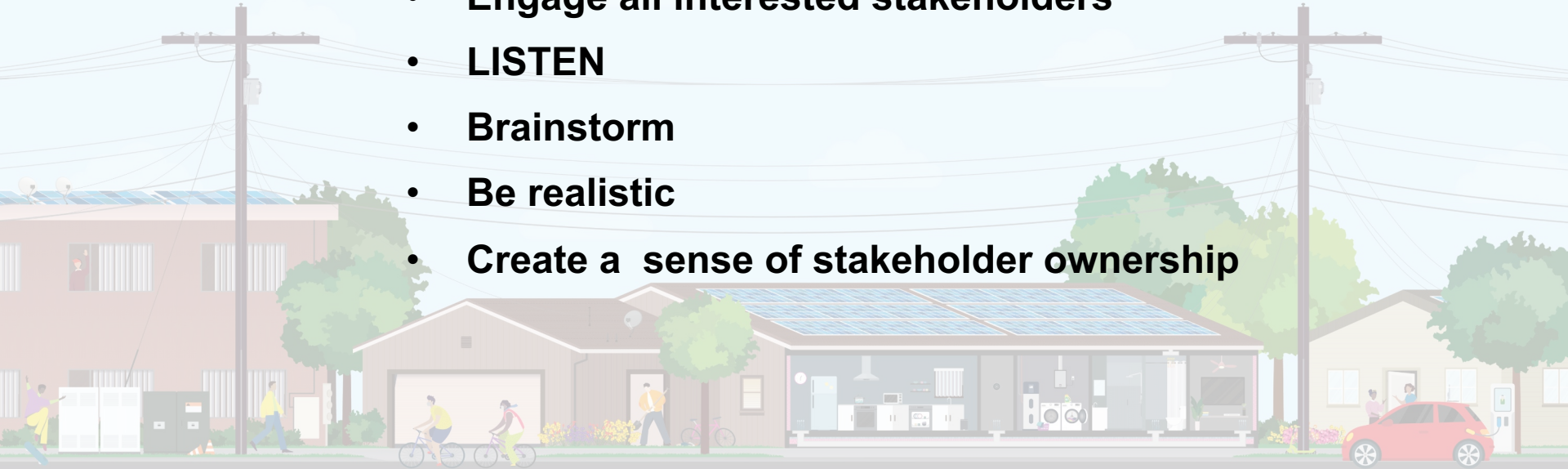
# Why?

- ❖ **Enable Resilience**
- ❖ **Save Energy**
- ❖ **Save Money: both  
*for* taxpayers and  
*by* taxpayers**
- ❖ **Improve Air Quality**
- ❖ **Create Local Jobs**



# Key Principles

- **Engage all interested stakeholders**
- **LISTEN**
- **Brainstorm**
- **Be realistic**
- **Create a sense of stakeholder ownership**



# Process Overview

1. Retain a strong leadership team
2. Identify stakeholders
3. Engage stakeholders
4. Map community assets
5. Establish goals, strategies, & project concepts
6. Conduct feasibility studies
7. Create action plan
8. Create proposal for funding





# Organize Leadership Team

## 1. Champion:

1. High level official or office

## 2. Manager:

1. Senior staff or
2. Non-profit

## 3. Leadership Team

1. Active stakeholders – Do-ers!
2. Establish a chair

## 1. Clear expectations

## 2. Defined scope of work

## 3. Empowered to act

## 4. Committed to completion

# Identify Stakeholders and Core Values

- Government Leaders
- Underrepresented Affinity Groups
- Organized Labor
- Citizens Groups (CBOs)
- Utility/CCA
- Technical Advisors
- Funders
- Schools/School Districts

- Jobs
- Electric Reliability
- Emissions Reductions
- Resilience
- Savings
- Revenue Generation
- Self-sufficiency
- Equity



# Stakeholder Matrix

Key Stakeholders -->		Who are the key stakeholders? By category/Specific Names (if known)								
Shared Values		<u>Government</u> Marin Clean Energy, Jane Doe City Planner, Andre James	<u>Underrepresented Affinity Groups</u> North Bay African American Health Coalition, Kim Devry	<u>Organized Labor</u> IBEW local 99, Jay Jones	<u>LMI &amp; Citizens</u> YIMBY, Eileen Wu	<u>Business</u> Chamber of Commerce, Manuel Garcia	<u>Climate Activists</u> <a href="#">350.org</a> , LaVeta Johnson	<u>Utility</u> PG&E, Andrea Schumer, Resilience Coordinator	<u>Technical</u> UCSD, Professor Thomas Power Engineers, Mike Jones	<u>Funders</u> Climate Foundation, Alex March
What categories of values and needs transcend stakeholder groups?	Jobs	Hire local labor for energy projects		Workforce training programs attached to projects					Create school to career pipeline	
	Electric reliability	Battery back up for customers with critical medical devices; public safety			Backup power for vulnerable populations	Reducing lost productivity and food waste from local cold storage warehouses		IEEE 1366 SADI/ SAFI /CAIDI / MAIFI scores and outage cost for backup generators		Medically fragile low income residents & seniors
	Emissions reductions				Technologies made accessible for LMI MF	Labor: Unemployed gas pieftters		Through "Million ton Challenge", PG&E on track to meet goal of reducing 1		
	Resilience		Preserving community gathering spaces; Improving air quality					Technical support via CMEP for community microgrid development		
	Savings							PG&E grants to further community resiliency: <a href="https://www.pge.com/en">https://www.pge.com/en</a>		
	Revenue generation	Keep jobs and revenue circulating locally to help the local economy						Sustainable Solutions Turnkey Program provides design/build services to		
	Self-sufficiency									
	Other									
	Other									

Source: Community Energy Labs

# Stakeholder Outreach

- Reach out to each of the stakeholders and find at least one person willing to participate in early meetings.
- Don't worry about that person being the “right” person - you just need someone who is committed.

## **STAKEHOLDER OUTREACH OBJECTIVES - >**

Begin to build rapport with the broader community of people who are potential advocates for the project.

# Community Meeting 1: Engage Stakeholders

1. Engage early
2. Engage often
3. Engage excessively (humility required)

CORE VALUES >> VISION STATEMENT



*Participants come to learn, provide input, and/or contribute substantively*

# Engaging Stakeholders

- Prepare & Share: Agenda and Stakeholder Matrix
- Brainstorm: Project types that check the aligned boxes
- Seek: Data authorization
- Brainstorm: Funding sources to align with project ideas
- Brainstorm: Sites

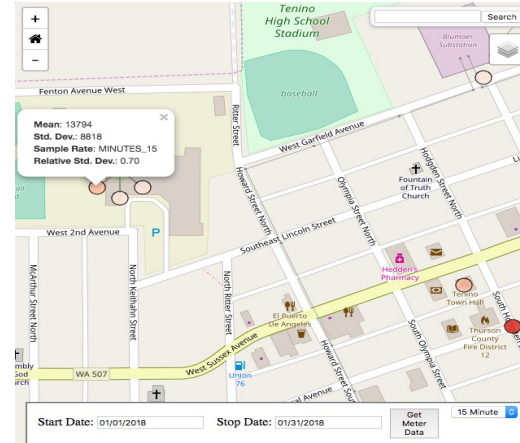


**FIRST STAKEHOLDER MEETING OBJECTIVE - >**

**Generate ideas, rapport, buy-in, and excitement!**

# Map Community Assets

- ❖ Critical Facilities
- ❖ Demographics/Income
- ❖ Energy Features
- ❖ Education/Business/Economic Assets



Community Energy Lab's Asset Mapping Tool:

<https://docs.google.com/spreadsheets/d/1ob5oTAmYbqqneNLazWYbvPGp2iz2xkiP6lotkgDjSA/edit#gid=0>



# Inventory Current Energy Projects

- ❖ Collect and record information related to existing and potential government, community, and utility energy activities, including policies.

DOE Template:

<https://www.energy.gov/eere/wipo/downloads/cesp-tool-42-activity-inventory-template>

## Analyze Community Assets

- Examine the different sources of data and list of potential community assets
- Where do the assets listed in the inventory sheet overlap with the assets you know of in your community?
- Do you observe any asset classes that represent high value opportunities for stakeholders?

# Apply Stakeholder Values to Asset Map

Leadership Team:

Apply stakeholder values and Community Asset Mapping data to list of ideas/projects from the first stakeholder meeting

**OBJECTIVE - >**

**Loosely develop 4-5 project ideas that  
you know will get a lot of people excited  
at the second meeting**

# Community Meeting 2: Align Stakeholders Goals, Strategies, & Project Proposals

- Present alignment areas and associated project ideas.
- Brainstorm some more!
- Establish a system to rank ideas, identify projects that align with values, rank options against goals and strategies.
- Pitch for letters of support and ID aligned funding sources.
- Explore project host sites.
- Ask for introductions to key resources (engineers, labor, etc.).

**SECOND STAKEHOLDER MEETING OBJECTIVE - >  
Secure support from stakeholders for short list of  
projects. Tee up feasibility study.**

# Conduct Feasibility Studies

- Leadership Team:
  - Incorporate feedback from second meeting.
  - Complete high level technical & financial feasibility for the short list of projects generated in the second stakeholder meeting.
  - Prepares funding concept/outline/pitch for most promising project(s) including Roles & Responsibilities/Timeline.

## **FEASIBILITY STUDY OBJECTIVE - >**

**Narrow down projects that are feasible, fundable, and have the highest likelihood of success. Prepare pitch materials for third meeting.**



# Financial Feasibility: Form Basic Project Plan

Create rough estimate of total project cost:

- What skills are needed?
- What are the rates charged by contractors?
- What tasks/steps are involved?
- How many weeks/months will each take?
- What are dependencies?
- Who will perform each task? For how long?
- What materials, supplies, etc?

## Community Meeting 3: Final Concepts and Timeline

- Leadership Team presents projects/concepts & timeline
- Stakeholders choose final project/s
- Confirm team members who will help reach out to funding sources and prepare full applications.
- Leadership Team hands out blank MOUs, Letters Of Support (be sure to follow up)

### **THIRD STAKEHOLDER MEETING OBJECTIVE - >**

**Choose one or two projects to seek funding for. Secure commitments for leadership and written support (MOUs).**

# Create And Implement Action Plan

## SMART goals

What are your concrete actions for moving forward?



The background of the slide is a close-up, slightly blurred image of several US dollar bills. A prominent 100-dollar bill featuring Benjamin Franklin is in the upper center. Other bills, including 50-dollar and 20-dollar bills, are visible in the foreground and background, creating a sense of depth and abundance. The bills are scattered and overlapping, with some showing serial numbers like KB462798601 and I09866729482.

Create Proposal For Financing/Funding

# Resources

- DOE Guide to Community Energy Strategic Planning:
- <https://www.energy.gov/eere/slsc/guide-community-energy-strategic-planning>
- Community Energy Labs Project Development Guide:
- <https://drive.google.com/file/d/1pb2q69bbGiVK0R0RzyYIMKa2pP1bSwF/view>