Pathway to Zero Net Energy for Public Agencies

Central Coast Sustainability Summit
Alex Ricklefs and Lauren Seymour
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Today’s Agenda

1. Overview of SoCalREN Public Agency Programs
2. Support for Public Agencies
3. Pathway to Zero Program
4. Questions
The Southern California Regional Energy Network (SoCalREN) was created to harness the collective power of residents, businesses and the public sector to achieve an unprecedented level of energy savings across Southern California.

Residential  Multifamily  Financing  Public Agencies

The SoCalREN Public Agency Programs are administered by the County of Los Angeles and funded by California utility ratepayers under the auspices of the California Public Utilities Commission. Learn more at socalren.org.
Who’s in the Network?

- 137 Agency Enrollments
- 88 Cities
- 5 Counties
- 4 Special Districts
- 18 School Districts
- 22 Water Agencies
How does SoCalREN help Public Agencies?

<table>
<thead>
<tr>
<th>Technical Support</th>
<th>Financing Support</th>
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<tbody>
<tr>
<td>Staff Support</td>
<td>Proposal &amp; Construction Support</td>
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Southern California REGIONAL ENERGY NETWORK
A Tailored Project Delivery Approach

A dedicated SoCalREN Project Manager supports a project at every stage.
We Heard our Agencies’ Feedback and We Delivered!

Here’s how we made it happen:

- Agency feedback helped us identify needs
- Joint cooperation memo and budget approval
- Implementation plan, stakeholder input
- Programs launch!
Disadvantaged Communities

- The California Environmental Protection Agency’s (CalEPA) CalEnviroScreen is a tool used to determine which are the most burdened or "disadvantaged"

- Uses environmental, health, and socioeconomic information to produce scores for every census tract in the state

- Results help direct resources to communities in need

High score = high pollution burden

A rating of 75% or above is considered “disadvantaged”
Expanded Programs for Better Offerings

- Project Delivery Program
- Revolving Loan Fund
- Pathway to Zero
- Metered Savings Program

Today’s Focus
SoCalREN’s Pathway to Zero was created to support public agencies within disadvantaged communities on a path towards zero net energy.

Offered in conjunction with our energy programs, it maximizes energy efficiency opportunities and drives the integration of Distributed Energy Resources (DERs).

Benefits of Pathway to Zero

- Customized high-level review of DER options like solar water heating, demand response, and photovoltaic and battery storage systems
- Objective third-party guidance for project planning
- Offered in conjunction with SoCalREN’s existing energy efficiency project delivery services
- Reduction of energy bills and greenhouse gas emissions

Learn more at socalren.com/PathwaytoZero
Why Pathway to Zero?

To go above and beyond energy efficiency, DAC Public Agencies need:

• Expertise to pursue distributed energy resource (DER) strategies
• Financial resources
• In-house expertise to coordinate energy efficiency and DER strategies
• Support with procurement and construction management

Distributed Energy Resources (DERs) are physical and virtual assets deployed across the distribution grid, providing value to the grid, individual customers, or both.
Pathway to Zero Benefits

| ✓ | Third-party unbiased support, no financial stake in your decision |
| + | Add-on to SoCalREN’s energy efficiency programs, allowing you to see all energy opportunities at your agency’s facility/facilities |
| ☑ | SoCalREN Project Manager to guide you through your selected DER and other sustainability strategies |
| 🎁 | Free up public resources for other services and reduce greenhouse gas emissions to improve air quality and the environment |
| $ | Offered at no cost to public agencies |

Offered at no cost to public agencies
DER & other Sustainability Strategies

Topics reviewed include:

- Demand Response
- Electric Vehicle Charging Infrastructure
- Solar Water Heating
- Photovoltaic (Solar) and Battery Storage
- Green Rate Options
- Permanent Load Shifting
- Water Efficiency
Program Process

Pathway to Zero can bridge the gaps agencies face to identify and implement energy projects.

- Identify energy efficiency project opportunities
- Pursue available programs and resources
- Provide support through construction
- Conduct Agency energy assessment
- Present report highlighting Pathway to Zero strategy opportunities
- Assist with securing incentives and financing
- Work with Agency on project close out

Southern California Regional Energy Network
Example - Training Center Solar

<table>
<thead>
<tr>
<th>Photovoltaic and Battery Potential Review</th>
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<tbody>
<tr>
<td><strong>35 kW</strong></td>
</tr>
<tr>
<td>Maximum Optimal PV Nameplate Capacity (DC kW)</td>
</tr>
<tr>
<td>52,757 kWh</td>
</tr>
<tr>
<td>Estimated Year 1 Annual Energy Production</td>
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</table>

**Photovoltaic System Details**
- Maximum Optimal PV Nameplate Capacity: 35 kW
- Estimated Year 1 Annual Energy Production: 52,757 kWh
- Estimated System Net Present Value: $16,827

**Battery Storage System Details**
- Maximum Optimal Battery Storage Nameplate Capacity: 35 kWh

**Financial Details**
- Overall System Cost: $103,030 (includes incentive deduction)
- Payback Period: 14 years
- Internal Rate of Return: 5.22%
Address Barriers
for public agencies serving disadvantaged communities

Unlock Potential
to integrate distributed energy resources on the path towards zero net energy

Provide Resources
to maximize energy efficiency opportunities and make informed decisions

Pathway to Zero Net Energy for Public Agencies
Questions

• What challenges is your agency facing?

• What type of support could help your agency on the path towards zero net energy?
Thank you for joining us today!

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