COMMUNITY ENERGY INNOVATION
WEBINAR SERIES

Electrifying! Sonoma Clean Power’s New State-of-the-Art Advanced Energy Center

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• Webinar is being recorded

• All participants will be in listen-only mode

• Use the Q&A (not chat) button on your screen to submit questions

• Q&A will begin following presentations
Electrifying! Sonoma Clean Power's New State-of-the-Art Advanced Energy Center
Sonoma Clean Power Background

• Not-for-profit public agency that started serving customers in 2014.
• First stated mission of the joint power’s authority establishing SCP is “reducing greenhouse gas emissions in Sonoma County and neighboring regions.”
• Generates electricity for approximately 600,000 customers in California’s Sonoma and Mendocino counties.
• Pacific Gas & Electric (PG&E) provides distribution of electricity.
Frontier Energy Background

- Demand-Side Management
- Building Research and Energy Consulting
- Commercial Foodservice
- Power and Transportation
CEC EPIC Grant Proposal

• 2017 solicitation to rapidly accelerate energy efficiency in existing buildings
  • 10% site kWh savings in residential buildings
  • 20% site kWh savings in commercial buildings
  • 300,000 square feet of retrofit building space & lessons learned for broader application

• Technologies ready for applied research, demonstration, and deployment
  • Research and demo sites recruited sites from SCP customers
  • Deployment sites engaged through Advanced Energy Center

• $9.8M awarded from CEC; additional $2.5M+ in SCP match funds
  • CEC funds for: research and demonstration projects; program planning; stakeholder engagement; reporting
  • SCP match funds support: deployment incentives and discounts, Advanced Energy Center construction, and ongoing customer support
Why the Advanced Energy Center?

Yearly Per Home Emissions (MT CO2e)

- Code Standard Home (Nat Gas + Elect)
- Energy Efficient Home (Nat Gas + Elect)
- Code Standard Home (Elect Only)
- Energy Efficient Home (Elect Only)
- Energy Efficient Home (Elect Only, 100% Renewable Product)
Advanced Energy Center Team

Sonoma Clean Power. Prime coordinator with the CEC. Responsible for identifying project sites, initial outreach to customers, and reporting progress to the CEC.

Frontier Energy Inc. Manage applied research activities, execution of laboratory and field testing, analysis of monitored data, program supports and optimal retrofit strategy development, building owner support, and stakeholder engagement.

DNV GL. Provide project Evaluation, Measurement, and Verification (EM&V), specify required measurement points and accuracy levels for the instrumentation package, and evaluate performance relative to the metrics for success.

Deployment & Education Team: Sonoma County Energy & Sustainability Dept, RCPA, Design AVEnues. Assist in development of the Advanced Energy Center, it’s training and development programs, and other educational opportunities for sharing lessons learned.

Research Project Subcontractors– California Lighting Technology Center (CLTC), Energy Docs, Rick Chitwood. Manage, support, and complete applied research and demonstration projects for commercial daylighting, radiant panels, air-to-water heat pumps (AWHPs), and load reduction retrofits.
Thank you!

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https://scpadvancedenergycenter.org
Cities/Counties Served by CCA CCA Programs Resilience Initiatives Quarterly Report Stats CalCCA Mailing List!
Thank you and stay well!

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