

Deploying Solar for Manufactured Homes in Colorado

February 23, 2023

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CleanEnergy States Alliance

www.cesa.org



Scaling Up Solar for Under-Resourced Communities

CESA is leading a wide-ranging initiative to accelerate the development of solar projects that benefit low-and-moderate-income (LMI) households and communities and address the central challenge facing the future of solar energy in the US: How to ensure that solar technologies benefit all Americans regardless of income.

Three tracks:

- Single-family homes
- Manufactured homes
- Community institutions

SIGN UP FOR OUR LEARNING NETWORK MAILING LIST: www.cesa.org/projects/scaling-upsolar-for-under-resourcedcommunities/manufactured-homes

This project is supported by an award from the US Department of Energy Solar Energy Technologies Office.

VOLUME 1 SOLAR FOR MANUFACTURED

An Assessment of the Opportunities and Challenges in 14 States



WARREN LEON, KAT BURNHAM, NATE HAUSMAN, AND LAURA SCHIEB

APRIL 2021 -





WARREN LEON, KAT BURNHAM, NATE HAUSMAN, AND LAURA SCHIEB

- APRIL 2021 -----

NEWLY ADDED APPENDIX:

Summary of Opportunities in 14 States for Solar for Manufactured Homes

Working group open for state agencies and utilities to join

www.cesa.org/resource-library/resource/solar-for-manufactured-homes

Webinar Speakers



Lisa Reed

Power Supply Supervisor, Holy Cross Energy





Matt Ohloff

Project Manager, Clean Energy States Alliance



Sustainable Solar

February 23, 2023



Your community. Your co-op. Your choice.



About Holy Cross Energy

Founded in 1939, Holy Cross Energy (HCE) is a not-for-profit rural electric co-op providing safe, reliable, affordable, and sustainable energy and services that improve the quality of life for more than 45,000 members in western Colorado.



HCE was built by a group of farmers in effort to bring electric services to rural areas. HCE belongs to the diverse communities and memberowners we serve and is committed to leading the responsible transition to a clean energy future. Its 100×30 goal is to provide members with 100% clean energy by 2030 and achieve net-zero greenhouse gas emissions by 2035. 250 MW peak demand

3,000 miles of distribution lines

120 miles of transmission lines

1,107 miles of underground line

1,856 miles of overhead line

\$125,000,000 annual revenue



Our Mission

Holy Cross Energy is leading the responsible transition to a clean energy future.

Our Vision

Holy Cross Energy provides safe, reliable, affordable, and sustainable energy and services that improve the quality of life for our members and their communities.

Our 100x30 Goal

Our goal is to increase the renewable electricity we provide to our members to 100% by 2030, and completely offset our greenhouse gas emissions to net zero by 2035.



Our 100x30 Goal

To achieve this goal by 2030, we must partner with our members and communities to incorporate new, clean, dispatchable resources into our power supply mix:



Energy Efficiency

Obtain an additional 0.25% per year of energy efficiency improvements



Cleaner Wholesale Power

Incorporate new, clean, dispatchable resources into HCE's power supply mix.



Local Clean Energy Resources

Continue our existing agreements for energy from local biomass, hydro, solar, & coal mine methane projects



Distributed Energy Resources

Support at least 2 MW per year of new rooftop solar systems



Smart Electrification

Encourage the expanded use of electricity for transportation, building heating & cooling, & industrial processes



Sustainable Solar

- 450 kW Community Solar Array
 - Virtual Net Metering
 - 20 Year Term Expectation, "Life"
- Funded by Colorado Energy Office (30%+ ITC)
- In Partnership with Eagle County and their BEECH Program
- Located at the Eagle County Regional Airport
- Providing access to renewable energy for those of our members with a higher energy burden
- Focus on Manufactured Home Residents

Reduce Energy Burden



- 3 kW of solar capacity per member, with a focus on manufactured homes
- 150 members
- CESA financial support for outreach
 - Engaging our members to enroll
 - Hands on labor



Eagle County Regional Airport



Location

Airport Considerations

- FFA Study
- Federal Land Use Approval
- Airport Lease
- Permitting
- Badged Employees
- Restricted Access
- 7 to 1 Personal Access





Powerfield Power Rack

- Barn Raising Event
 - Community Involvement
 - Member Ownership
- 3-day deployment schedule
- Volunteer Labor
- Cost Savings
- https://www.powerfieldenergy.com/



Partners



Colorado Energy Office:

- Weatherization Program
- Roof Top Solar Component
- Lifetime enrollment
- No cost to member
- Eagle County:
- BEECH Program
- Location Assistance



Barriers

• Funding

- Energy Partners = Colorado Energy Office
- HCE WeCare Fund \$3,000,000
- IRA ITC Direct Pay 30% ITC+20% economic benefit systems
- Location
- Community Support Barn Raising
 - Powerfield PowerRack
- 0&M
- Administrative Concerns
- Distribution Cooperative not G&T





Holy Cross Energy Lisa Reed Energy Programs Manager

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Thank you for attending our webinar

Matt Ohloff

Project Manager Clean Energy States Alliance <u>mohloff@cleanegroup.org</u>

Learn more about the Scaling Up Solar for Under-Resourced Communities Project at www.cesa.org/projects/scaling-up-solar-for-under-resourced-communities



Upcoming Webinar

Advancing Equity through 100% Clean Energy Thursday, February 27, 2-3pm ET

CESA Research Fellow **Charles Hua** will discuss the findings of CESA's new report reviewing the equity and environmental justice components of state 100% clean energy plans. **Dr. Tony Reames** of the US Department of Energy will place the states' energy equity activities into the context of federal environmental justice initiatives, including the Justice40 Initiative.

Read more and register: www.cesa.org/webinars

