

Solar Plus Storage Solutions For Community Solar

**CSVP Webinar Series
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**Beth Reid, Olivine
John Powers, Extensible Energy
Hermann Schweizer, Sonnen**



**Community
Solar Value
Project**

CommunitySolarValueProject.com



The Community Solar Value Project

- Led by Extensible Energy, with expertise of 3 additional firms
- Funded by U.S. Department of Energy SunShot Initiative
- Utility-led community solar programs, using a variety of project ownership options and program innovations.



www.communitysolarvalueproject.com



Join Us For Future Webinars

- Thursday October 27: Keeping It Local
- Thursday December 1: Smarter Procurement for Community Solar Programs

For registration information:

stacey@communitysolarvalueproject.com

Watch for us at conferences:

Peak Load Management Alliance • November

Renewable Energy World • December

And watch for resources postings, including this webinar on

www.communitysolarvalueproject.com

Four Ways to Add Net Value And Make Community Solar Better



Strategic solar
design &
specifications



Best-practice
project
financing &
procurement



Target
marketing
& a more
customized
offer



DR &
storage
companion
measures

Storage in Community Solar

- Why Should Community Solar Program Managers Care about DR? (Or: Am I in the Right Webinar?)
- Customers are busy
- Solar penetrations are rising
- Add and offset net load variability all in the same program
- Extract additional sources of utility value for community solar programs



Pick A Side

Utility Side

- Pumped Hydro
- Compressed Air
- Big Batteries
- Crazy New Ideas

Customer Side

- Storage Water Heaters
- Ice Storage
- EV Charging
- Stationary Batteries
- Flywheels



PNM: Prosperity Energy Project





Austin Energy: Utility Scale Batteries in Community Solar

- 3.2 MW Community Solar project
- Brownfield development: former oil tank farm
- 1.5 MW Batteries integrated on same feeder
- Total project cost still under 9 cents / kWh



Crazy New Ideas: Anything is Possible...



Pick A Side

Utility Side

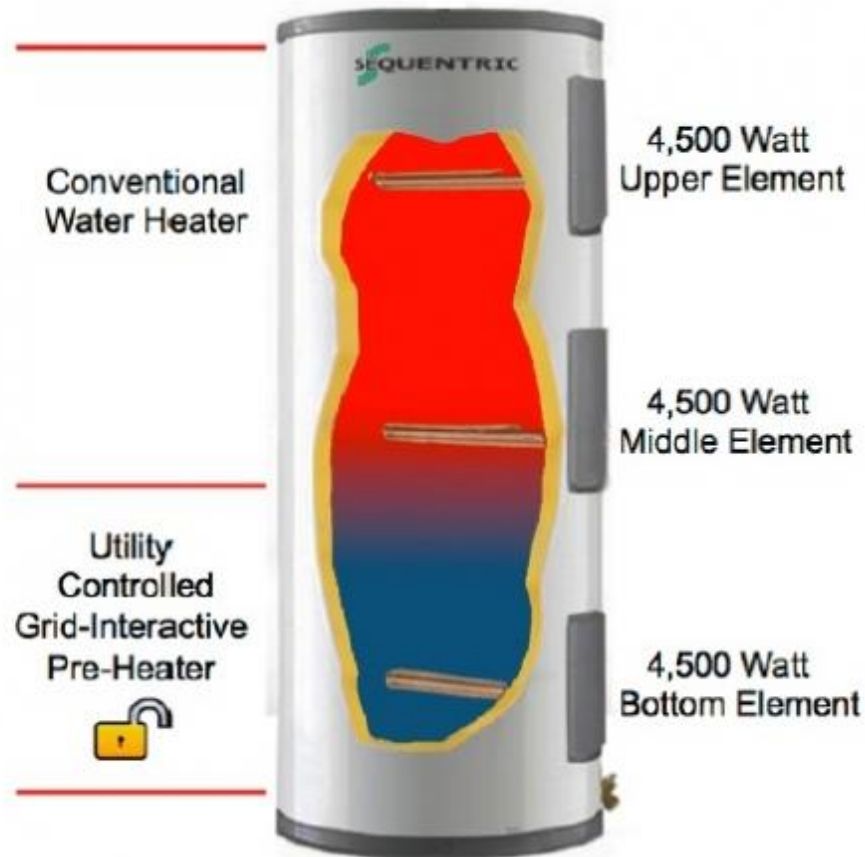
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Storage Water Heaters: Growing Market, Successful Programs



Electric Vehicle Integration: Emerging Standards, Growing Fast





Green Mountain Power: Batteries Behind the Meter

- Vermont: 75% RPS By 2032
- Pilot: Sell / Lease Batteries to 500 Residential Customers
- Monthly Subsidy IF Utility Controls Battery
- Load Shifting and Reliability Improvements



Selecting Storage Measures for Community Solar Programs

1. Characterize Utility Integration Needs

2. Identify Market Opportunities / Value Streams

3. Review Scoring Matrix For Storage Measures That Address Integration Needs

4. Evaluate High-scoring Storage Measures For Inclusion in Community Solar Program





Green Mountain Power: Batteries Behind the Meter



- Vermont: 75% RPS By 2032
- Pilot: Buy Tesla Powerwall Batteries for 500 Residential Customers
- Lease Payments: \$85/mo or \$35/mo
- \$50/mo Subsidy IF Utility Controls Battery
- CEO Claims: Already Deriving Benefits > \$50/mo.



Questions?

Please type your questions into the question pane on the dashboard.

Speaker Contacts:

John Powers, Extensible Energy | john@extensibleenergy.com

Beth Reid, Olivine | breid@olivineinc.com

Hermann Schweizer, Sonnen | h.schweizer@sonnenbatterie.de



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Thank You!

This webinar is recorded and will be available on demand on our website in a few days. Visit:

www.communitysolarvalueproject.com

The Community Solar Value Project is focused on improving community-solar program value, through solar + storage + demand-response and other strategies, at electric utilities in Sacramento and beyond. It is led by Extensible Energy, LLC, and draws on expertise from three energy consulting firms.



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