

Sharing Solar Benefits with Multifamily Renters:

A Mississippi Case Study

October 30, 2024

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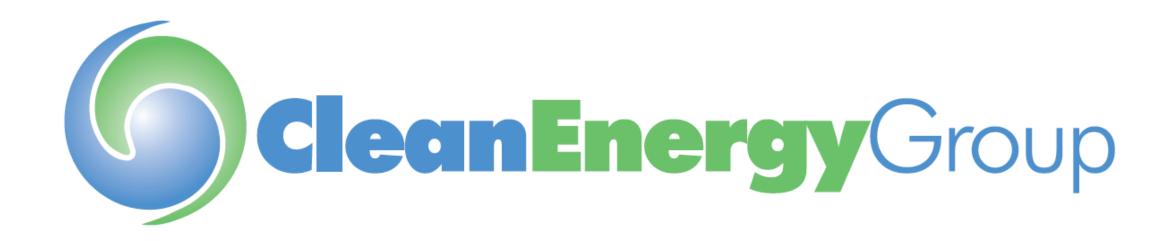
Speaker bios available in the "Materials" section



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Affordable, reliable, clean energy for all.



Climate Resilience and Community Health



Distributed Energy Access and Equity



Energy Storage and Flexible
Demand



Fossil Fuel Replacement



Resilient Power Project

Building the foundation for energy resilient communities.







ELEVATE

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CleanEnergy Group TECHNICAL ASSISTANCE FUND

Providing Support to Build Local Resilience



Webinar Speakers



Aliya Bagewadi

US Director of Strategic Partnerships Allume Energy



Jennifer Welch

CEO and Founder Vesica Real Estate



Director of Georgia BRIGHT

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Alicia Brown



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President & Executive
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Thank You



Seth Mullendore

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Upcoming Webinars

Is Sodium the New Lithium? How Table Salt Might Save the Energy Storage Industry (11/7)

Demand Management: A Cost-Effective, Emissions-Free Alternative to New York City's Aging Peaker Power Plants (11/12)

Expanding Clean Energy Access and Benefits: Award-Winning Programs in Connecticut and Maryland (11/14)

Residential Solar+Storage: Weighing the Benefits of Bill Savings vs. Backup Power (11/20)

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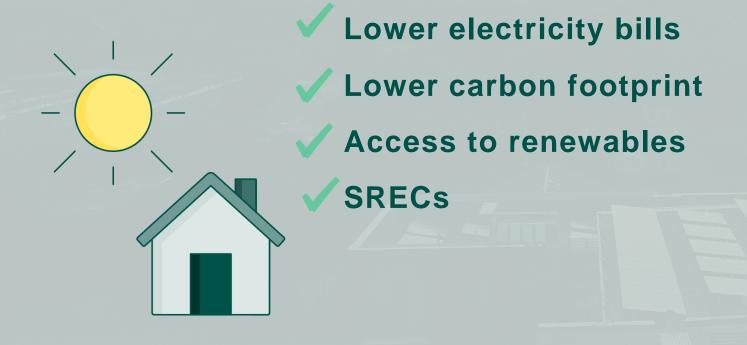


Shared Solar for Multifamily Buildings MS Case Study

October 2024



Rooftop solar is booming, but not everyone can join in.



Solar is rapidly being installed on single-family homes across the US



Representing 40% of US households, multifamily residents are missing out



Historic Barriers for Multifamily Solar



Cost to asset owners without direct benefit



Cost of multiple systems



Difficulty tracking tenant energy data



Reliance on utility policies and programs



- More systems required & costly to install
- **X** Excessive wall space necessary
- No ability to alter allocation



This gap creates major disparities for multifamily residents



Economic inequity

Multifamily residents typically face higher energy burdens

Missed carbon reduction

Missing out on reduced carbon emissions in densely populated areas

Lack of resilience

More vulnerable to energy price increases and grid outages





SOLSHARE



Award-winning smart hardware, connecting multiple apartments to shared rooftop solar.

SELCENTER



Sophisticated software to monitor, control and bill for shared solar energy.

SolShare Unlocks



Increases owners' NOI by \$200-300/apt/yr *and* lowers tenant utilities by \$30-\$60/mo



Sharing energy from a single system



Tracking building-wide energy data



Providing privately-owned infrastructure



- Simple to install, cost-effective & less space
- Energy distribution data
- Flexible real-time allocation

Behind-the-meter

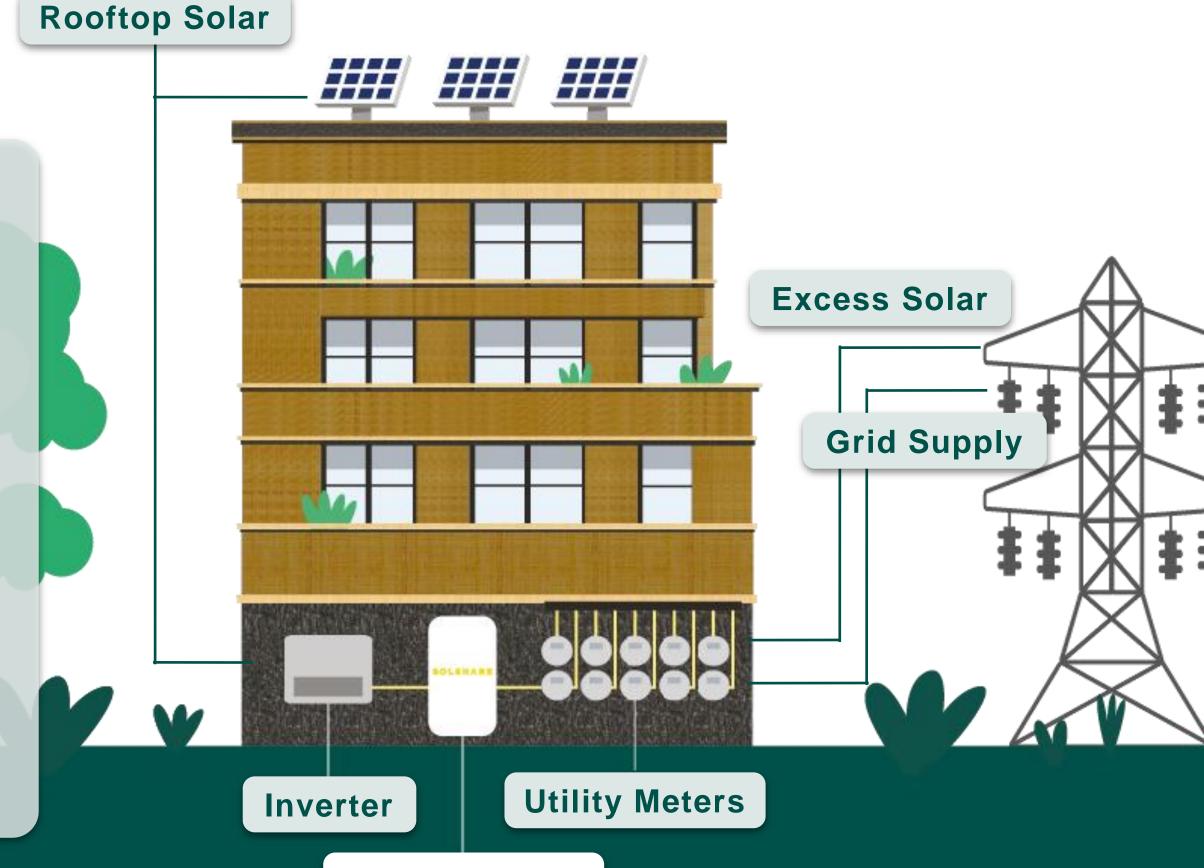
No need for the utility to change its billing system or create a new solar program.

Distributes solar

Distributes solar from a single rooftop system to multiple 120/240v meters in a building.

Connected centrally

Outputs wire at the building's meter bank, offering a non-invasive installation process for tenants.



SOLSHARE

BENEFITS FOR TENANTS



Reduces electricity bills and overall inflation-related rent burdens.



Protects communities from energy poverty via direct solar access.



Provides multi-family tenants access to the renewable energy transition.



Provides visibility into energy usage, creating tenant confidence in savings.



Darren, SolShare tenant in Jackson, MS





Jennifer Welch, CFO & Founder

805 Madison Street

Jackson, MS

Solar Project Analysis

10-Unit Multifamily Property in the Belhaven **Heights Historic District**



805 Madison Street Solar Project Analysis

- March 2021: Initial Discussion
- VRE's Mission/Objective
- Incentives/Analysis
- Execution
- June 2022: Project completed

How it All Began

Like many of my stories, it all began with a PV Magazine article....

With the SolShare, I saw the opportunity to:

- Bring solar to a population with virtually no access to solar but very high energy burdens
- Explore how the load profile diversity of different apartment units could minimize exports to the grid and increase savings for participants
- Try to build a financial model for equitable solar in a state with low energy rates and no net metering

Behind-the-meter solar sharing technology from Australia

Allume Energy's SolShare technology equitably spreads the solar love among residents of community housing and apartment buildings that can install PV on top. It has just achieved the certification that will let residents of "multi-family units" across America enjoy the benefits of renewable energy.

NOVEMBER 30, 2020 NATALIE FILATOFF

MARKETS

MARKETS & POLICY

Image: Allume Energy

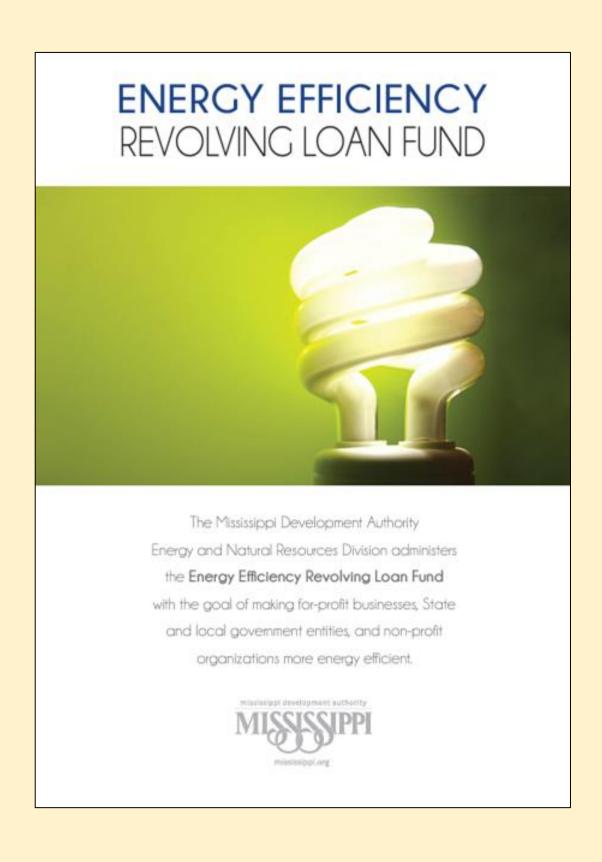
AUSTRALI

UNITED STATES



Two SolShare systems by Allume Energy, installed on an apartment building. Each system can distribute solar to up to 15 separate apartments and systems can be connected to work in concert.

The Ingredients



Financial

- Mississippi Development Authority Energy Efficiency Revolving Loan Fund
- Grant for the SolShare from Entergy MS
- 30% federal tax credit

Collaborators

- Jennifer Welch (building owner)
- Solar Alternatives (solar installer)
- Allume
- Entergy MS
- Me as project manager

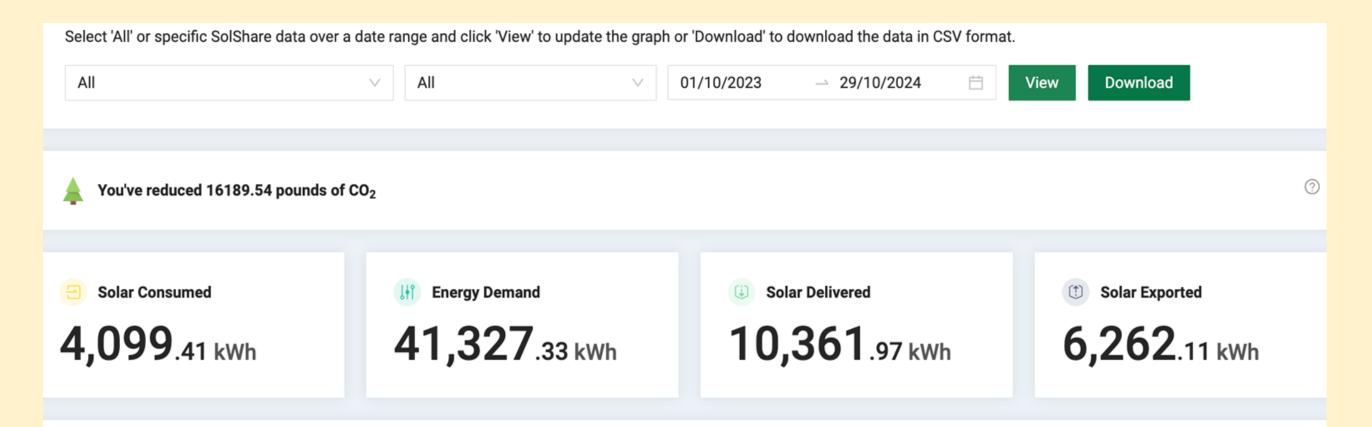
The Impact

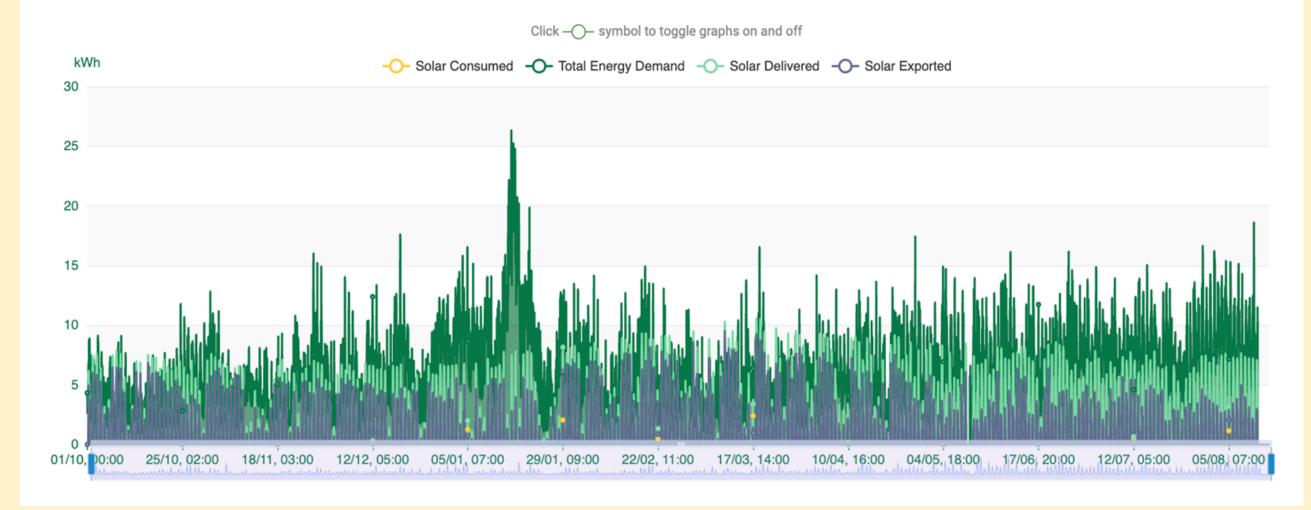
- 22 kW of solar
- 1 SolShare
- 10 apartments
- Tenant savings of 10-20%
- A replicable model!



Allume portal provides a snapshot of solar distribution

- 25% solar offset
- 16,000 lbs of C02 reduction





Lessons Learned

- 1. The product works!
- 2. System orientation matters
- 3. Probably need fewer apartments per SolShare to offer higher savings given AC output limit
- Importance of having an external project manager to coordinate across stakeholders
- 5. Importance of utility education and involvement
- 6. Importance of low cost capital to success in "opportunity states"

Now is the Time

- More Accessible and More
 Generous Federal Tax Credits
 - Adders
 - Direct Pay
- RECs
- Community Change Grants
- GGRF/Solar for All







