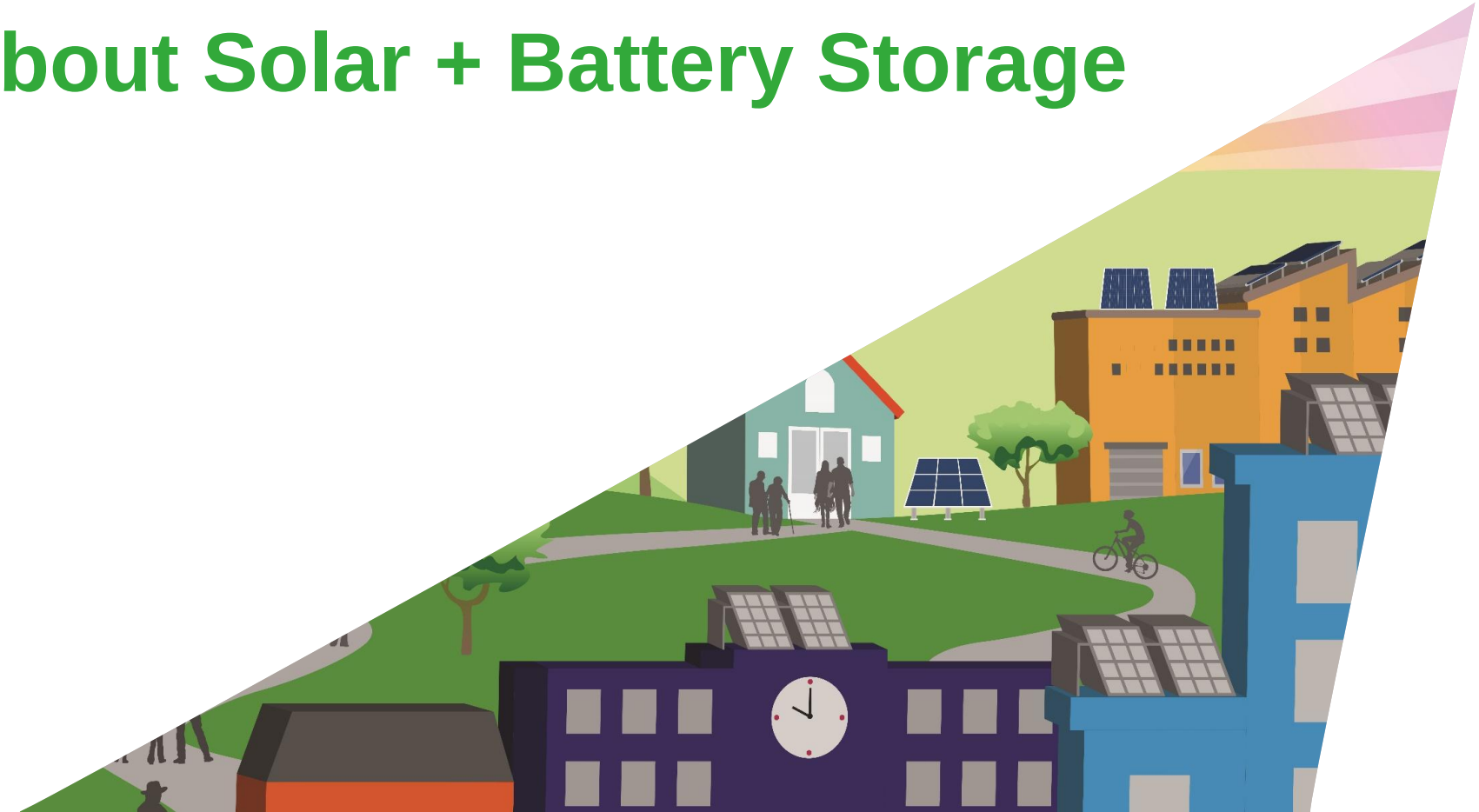
Learn about Solar + Battery Storage



3/26/2025

Agenda

- Batteries 101
- Why Does Connecticut Need Energy Storage?
- How Does Energy Storage Solutions Work?
- Questions

Before we begin…

What are Home Batteries?

Refrigerator for approximate size comparison

All batteries shown have a capacity of about 12-18 hours of home backup. Additional electrical equipment not shown.

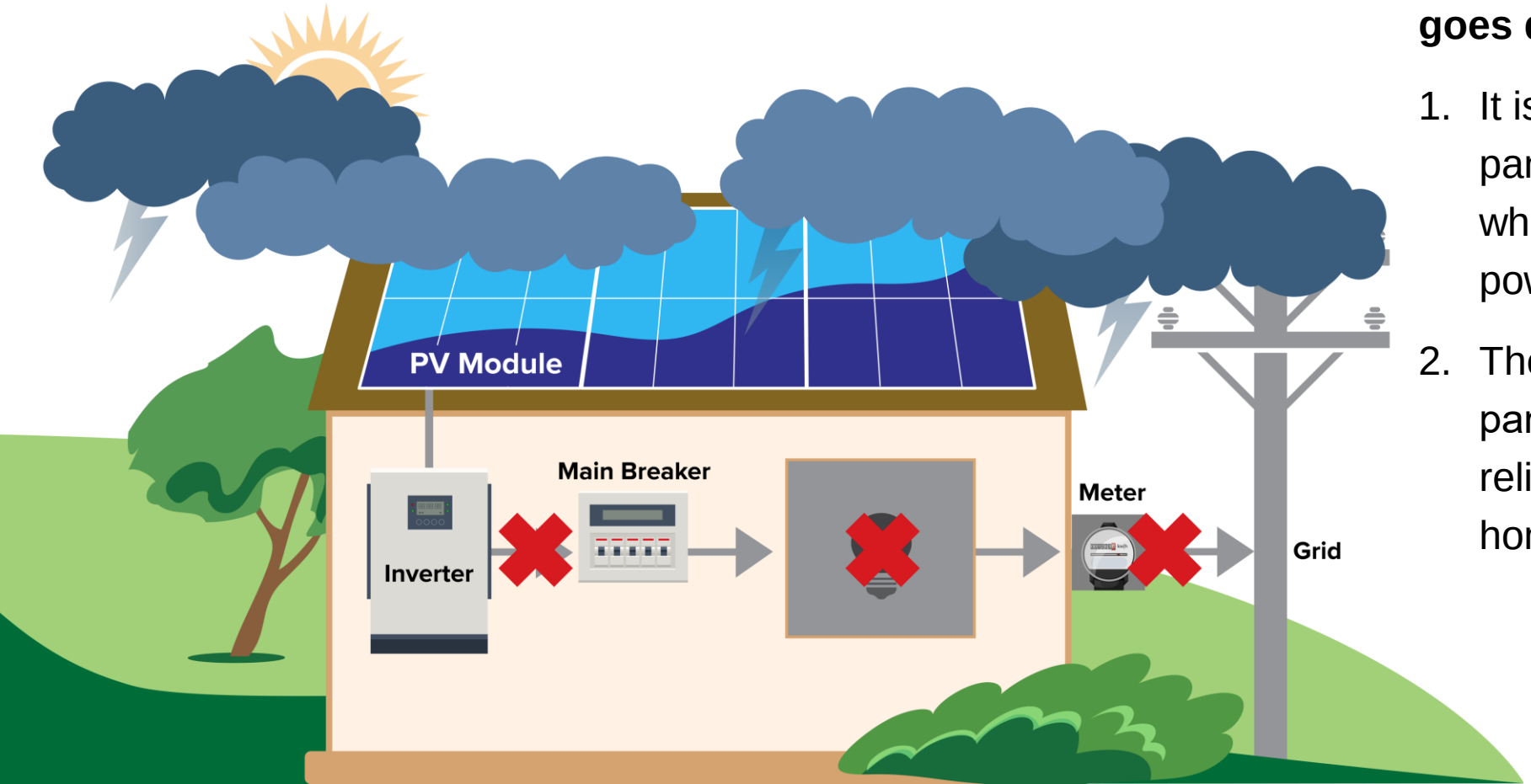
Why Batteries?

Smooth out peak demand for the grid

Provide on-site backup power when needed

Batteries 101

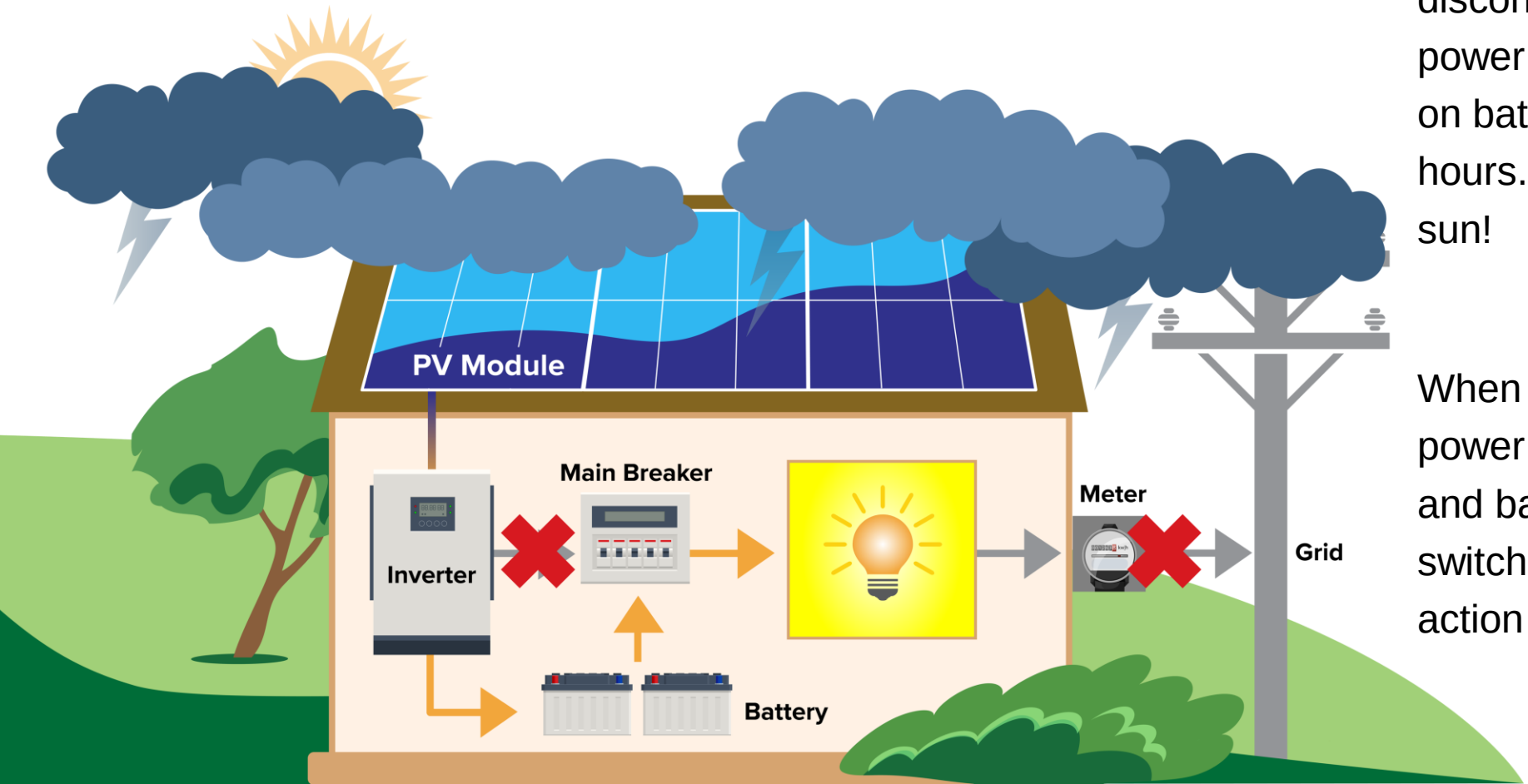
Solar Panels Turn off During a Power Outage



Solar panels are not designed to power your home when the grid goes down! This is for two reasons:

1. It is dangerous for your solar panels to put electricity on the grid when line workers may be fixing power lines.
2. The power output from solar panels isn't steady enough to reliably run everything in your home (clouds, tree shading, etc.)

Solar + Home Batteries Stay Connected

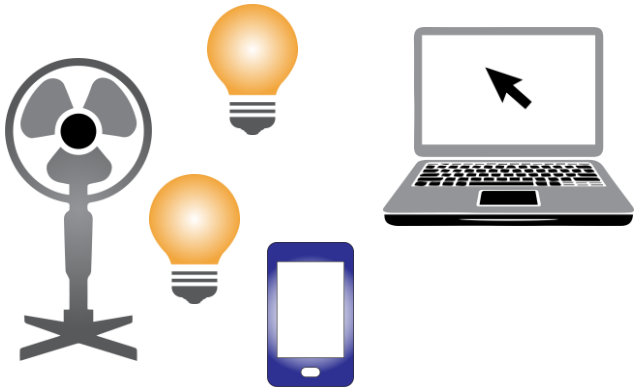


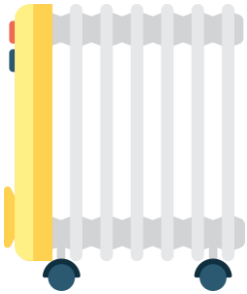
You can charge your home battery using your solar panels, safely disconnect from the grid during a power outage, and run your home on battery power for several hours... and recharge using the sun!

When the grid goes down in a power outage, the solar panels and battery will automatically switch over to backup mode – no action needed from you!

What Can Home Batteries Power?

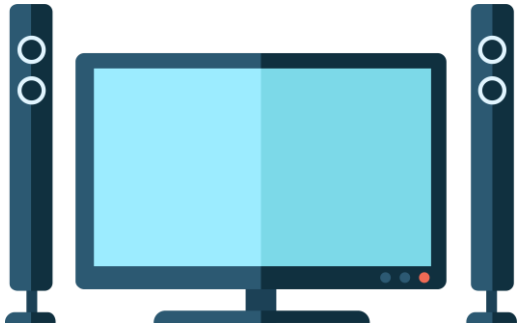
Essentials





Low Demand

High Demand



Nice to Have

*Assuming 8 kW / 18 kWh

How Will Your Battery Perform in Energy Storage Solutions?

Eligible Equipment

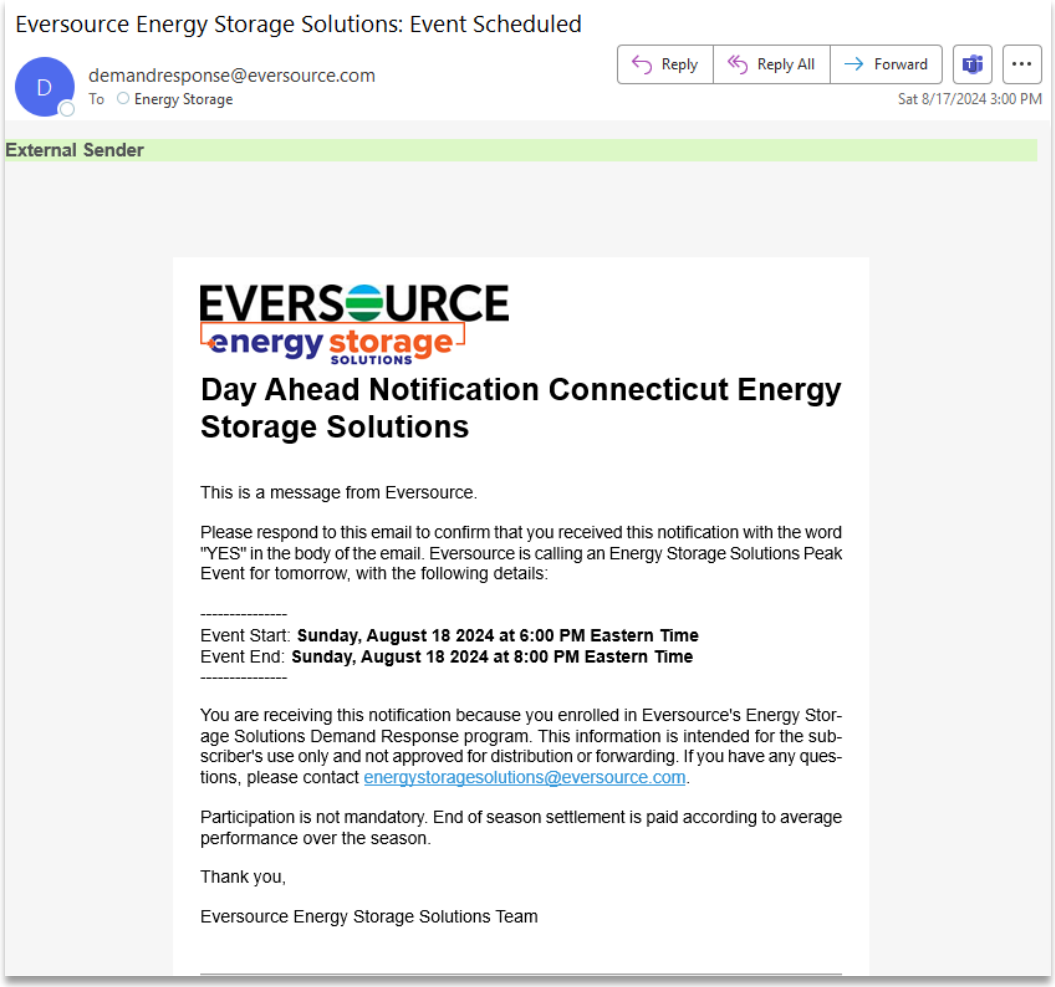
- ✓ Briggs & Stratton
- ✓ Cadenza Innovation
- ✓ EndurEnergy Systems
- ✓ Enphase Energy
- ✓ Fortress Power
- ✓ FranklinWH
- ✓ Generac PWRcell
- ✓ Homegrid Energy
- ✓ Panasonic
- ✓ PylonTech
- ✓ Qcells
- ✓ SolarEdge
- ✓ StackRack Battery Systems
- ✓ Tesla (Active Dispatch only)

Passive Dispatch – Upfront Incentives

- If you received an Upfront Incentive (most customers do), your battery will be pre-programmed to discharge its energy on **weekdays** in **June, July, and August** (except for Juneteenth and the Fourth of July)
- “Set it and forget it!” ensures batteries will help offset peak demand without additional input.

Active Dispatch – Performance Incentives

- If the utility predicts the peak will occur at a different time – **any time** in **June, July, August, or September,** your battery will switch to dispatch during that time frame and **earn an additional performance incentive**.
- Active Events are called 24 hours in advance and override Passive Events
- Customers are notified by email
- Active Events are optional – you can opt-out using your battery's app or website



Eversource Energy Storage Solutions: Event Scheduled

D demandresponse@eversource.com
To Energy Storage

Reply | Reply All | Forward

Sat 8/17/2024 3:00 PM

External Sender

EVERSOURCE energy storage SOLUTIONS

Day Ahead Notification Connecticut Energy Storage Solutions

This is a message from Eversource.

Please respond to this email to confirm that you received this notification with the word "YES" in the body of the email. Eversource is calling an Energy Storage Solutions Peak Event for tomorrow, with the following details:

Event Start: **Sunday, August 18 2024 at 6:00 PM Eastern Time**
Event End: **Sunday, August 18 2024 at 8:00 PM Eastern Time**

You are receiving this notification because you enrolled in Eversource's Energy Storage Solutions Demand Response program. This information is intended for the subscriber's use only and not approved for distribution or forwarding. If you have any questions, please contact energystoragesolutions@eversource.com.

Participation is not mandatory. End of season settlement is paid according to average performance over the season.

Thank you,

Eversource Energy Storage Solutions Team

What about Outages?

- Many battery systems have software that prevents discharge when major weather events are predicted by NWS:
  Storm Guard (Enphase)
  Storm Hedge (Franklin WH)
  Outage Guard (Generac)

- The utility will cancel any planned events
- No dispatch in April, May, or October
- Typically 2-3 events called between November to March

How does it all add up?

(Hint: prices are coming down!)

Standard Rate Example

Average system size:	**10.3 kW / 23.4 kWh**
Cost before incentives:	**$29,887**
Upfront Rebate:	**($5,850) / ($8,775)***
30% Federal Tax Credit:	**($7,211) / ($6,334)**
10 Years of Performance Incentives:	**($8,062)** (estimated)

Net Cost of Backup Power: $8,764 or $6,716*

Talk to an Eligible Contractor to see what you qualify for!

* indicates Grid-Edge. See map for more information
Source: Energy Storage Solutions residential project data

Underserved Rate Example

Average system size:	**10.3 kW / 23.4 kWh**
Cost before incentives:	**$29,887**
Upfront Rebate:	**($10,530) / ($14,944)***
30% Federal Tax Credit:	**($5,807) / ($4,483)**
10 Years of Performance Incentives:	**($8,062)** (estimated)

Net Cost of Backup Power: $5,448 or $2,399*

Talk to an Eligible Contractor to see what you qualify for!

* indicates Grid-Edge. See map for more information
Source: Energy Storage Solutions residential project data

Underserved Rate Example

Average system size:	**10.3 kW / 23.4 kWh**
Cost before incentives:	**$29,887**
Upfront Rebate:	**($14,040) / ($14,944)***
30% Federal Tax Credit:	**($4,754) / ($4,483)**
10 Years of Performance Incentives:	(**$8,062)** (estimated)

Net Cost of Backup Power: $3,031 or $2,399*

Talk to an Eligible Contractor to see what you qualify for!

* indicates Grid-Edge customer. See map for more information
Source: Energy Storage Solutions residential project data

Get Started

www.energystorageCT.com

- Learn about the Program
- Explore program data
- Find an Eligible Contractor

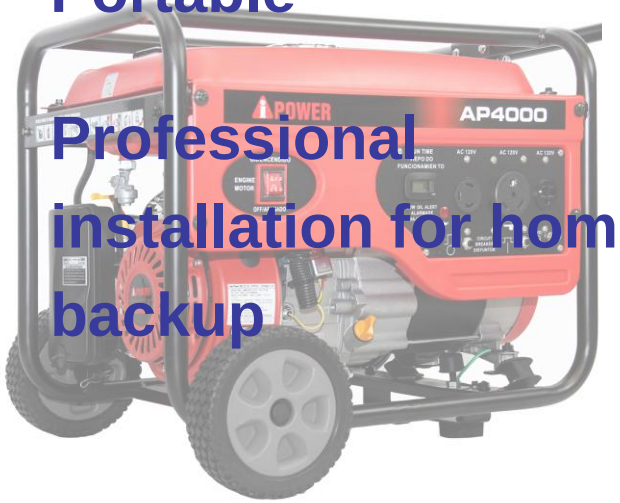
- Is your preferred contractor not on the list? Email us at energystorage@ctgreenbank.com

Questions?

Home Batteries vs Generators - Benefits

Low cost

Portable



Professional installation for home backup

Silent

No fuel or emissions

Store and use your solar energy

On standby

Incentives available

High output

Mid-range price

Plumbed fuel supply

On standby

Home Batteries vs Generators - Drawbacks

Buy / transport fuel

Loud / Dangerous emissions

Requires maintenance

Low output

Not on standby

No incentives

Upfront cost

Professional installation

Interconnection and permitting

Not portable

Fuel supply / cost

Professional installation

Permitting

Requires maintenance

Not portable

No incentives