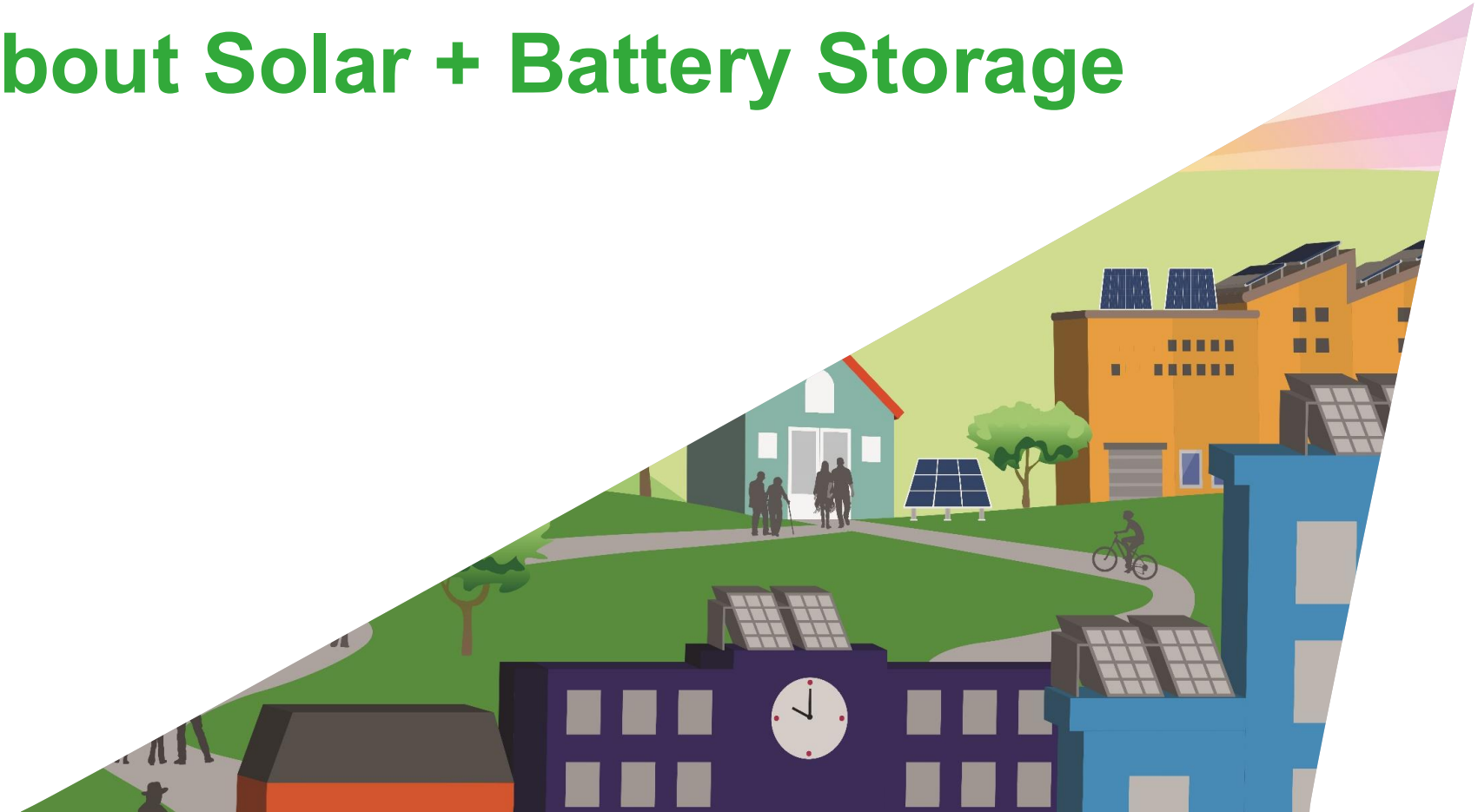
Learn about Solar + Battery Storage



3/18/2026

Agenda

- What are home batteries?
- Solar power 101
- Why install a battery?
- Why enroll in Energy Storage Solutions?
- Questions

Before we begin…

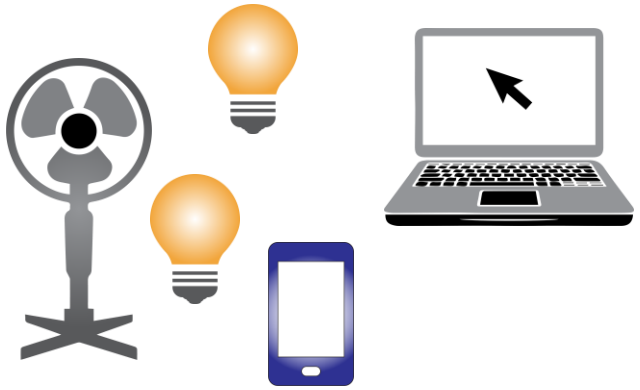
What are home batteries?

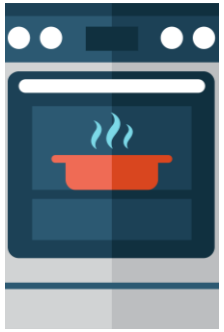
Refrigerator for approximate size comparison

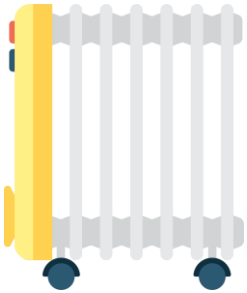
All batteries shown have a capacity of about 12-18 hours of home backup. Additional electrical equipment not shown.

What can home batteries power?

Essentials

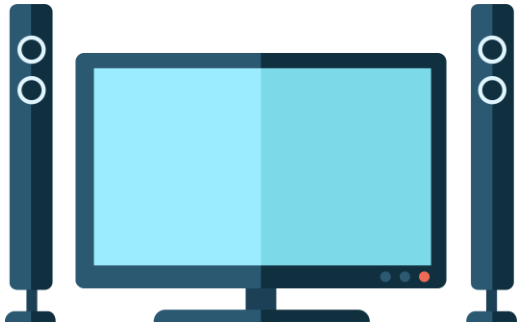






Low Demand

High Demand

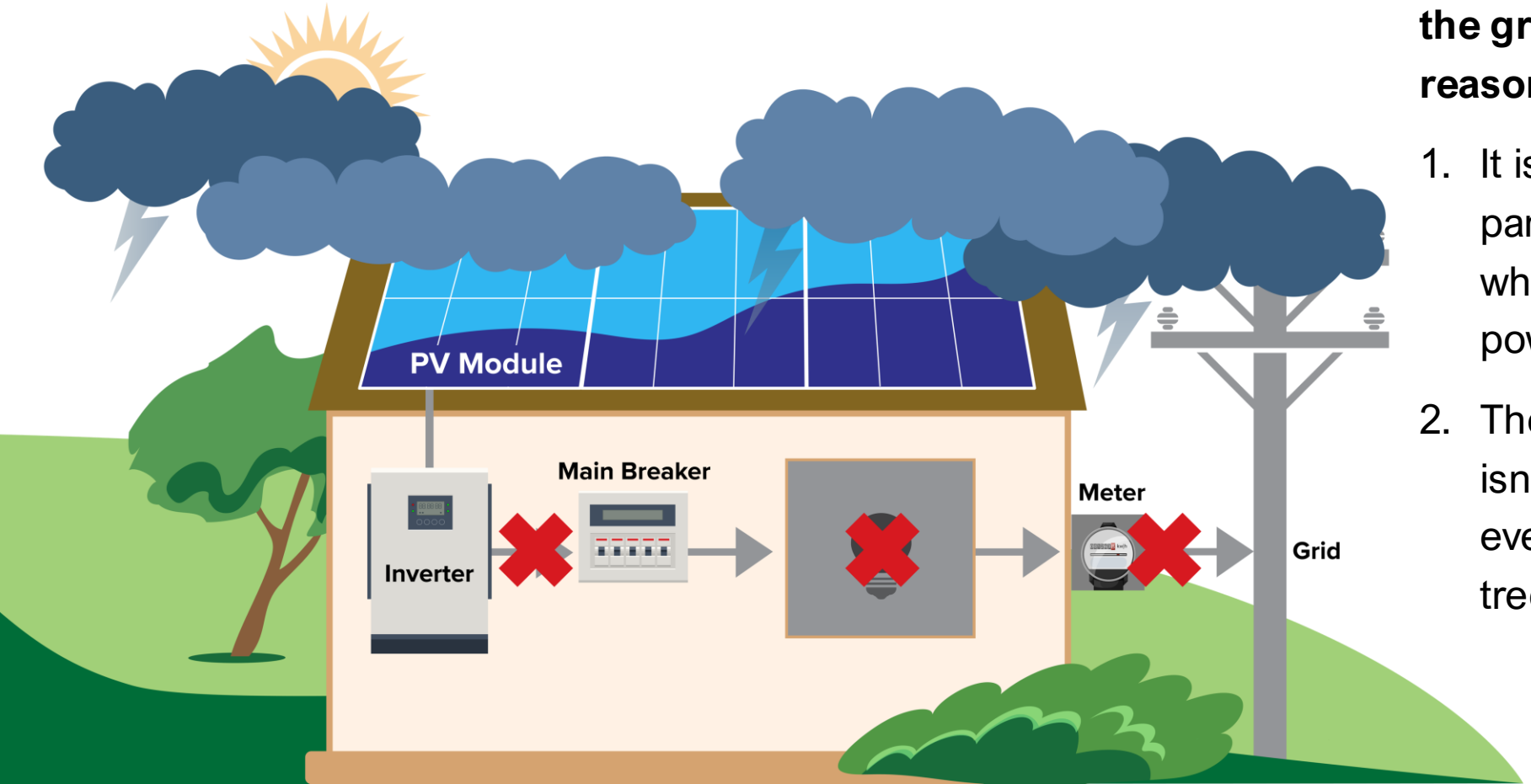


Nice to Have

*Assuming 8 kW / 18 kWh

Solar power 101

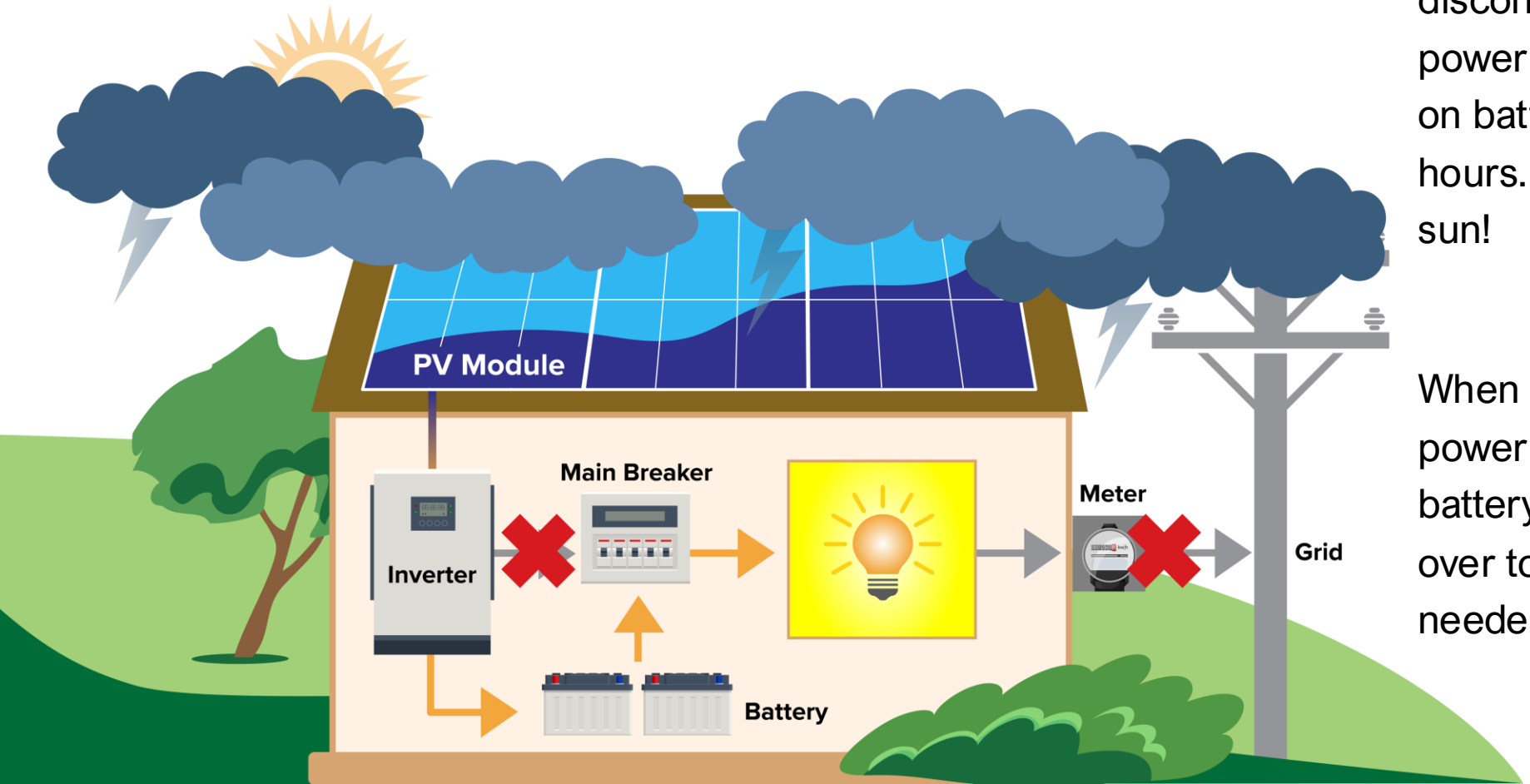
Solar panels turn off during a power outage



Most solar panel systems 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!

Why install home batteries?

Smooth out peak demand for the grid

Provide on-site backup power when needed

Why enroll in Energy Storage Solutions?

Enrollment Incentives

- Residential customers qualify for an Enrollment Incentive, starting April 1.
- Customers must stay enrolled but are not obligated to participate in any events.
- Passive Dispatch is no longer available for new customers beginning April 1.

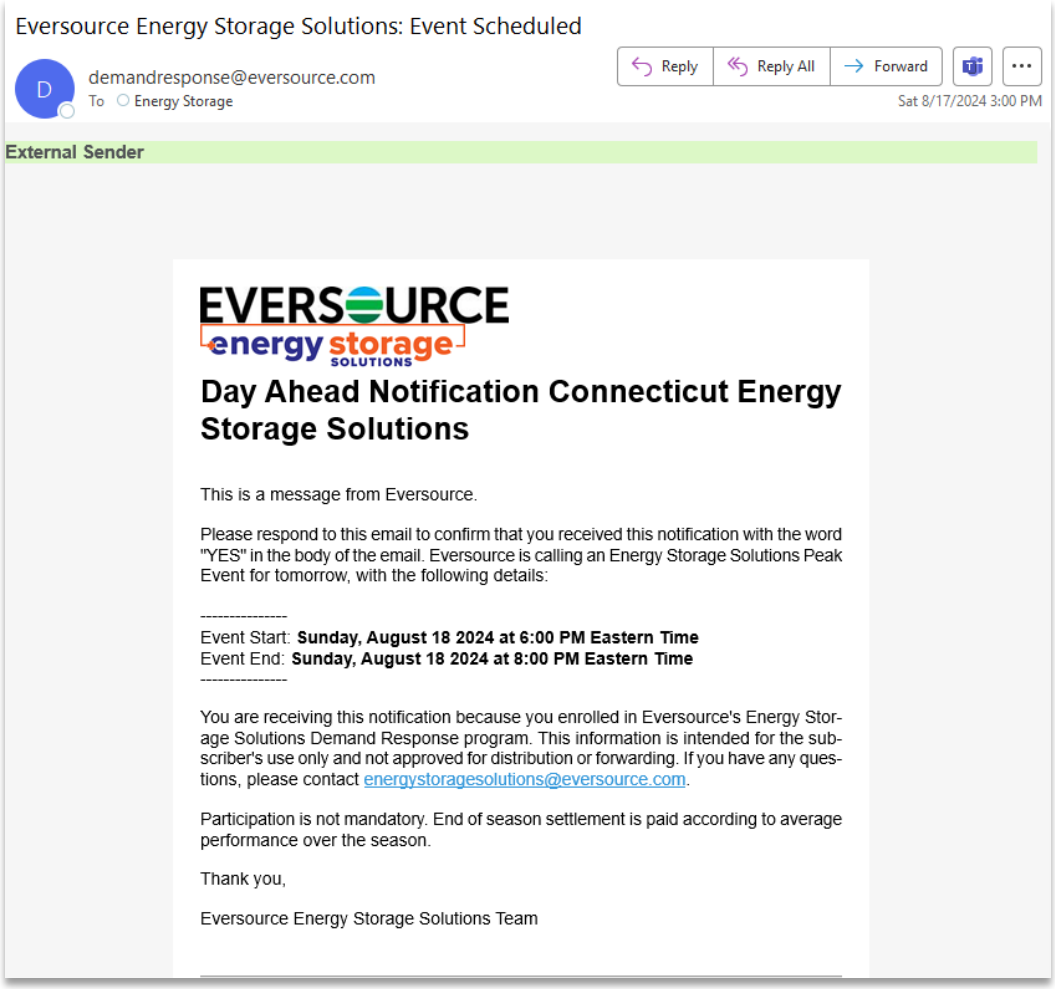
Enrollment Incentives

Program Design – Enrollment Incentive Rates	
Customer Class	**Enrollment Incentive**
Residential - Standard	$30/kWh
Residential – Grid Edge**	$130/kWh

*See Program Manual (2/11/26) Sec. 6)
**"Grid-Edge" customers experience more frequent power outages than average. (Eversource Map) (UI Map)

Performance Incentives

- If the utility predicts the peak will occur at a different time – **any time** in **June-September or November-March,** your battery will switch to dispatch during that time frame and **earn a performance incentive.**
- Active Events are called 24 hours in advance and override Passive Events
- Customers are notified by email or in-app notification from their battery
- 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

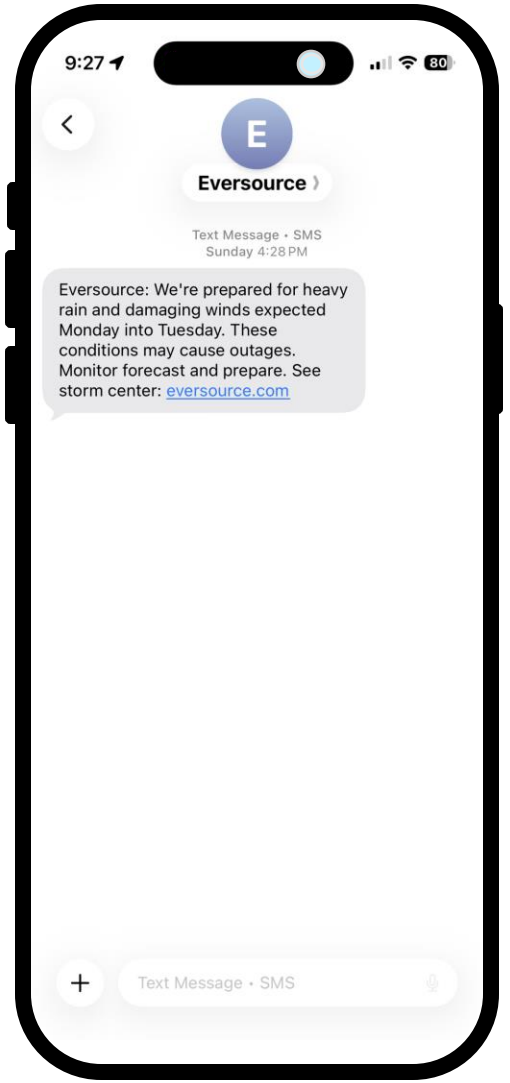
Performance Incentives

Program Design - Performance Incentive Rates	
Customer Class	**Years 1 – 10**
Standard Residential	$300/kW
Underserved Residential*	$450/kW
Low-Income Residential*	$550/kW
*Applies based on Customer Class at the time of application. Performance incentives are based on average kW-AC contribution during the season, determined by actual system performance during events as indicated by inverter data, not nameplate capacity.	

What about storms and outages?

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

- The utility will not call any events during big storms that trigger an “ERP”
- No dispatch in April, May, or October
- Less than 10 events called November through March



What equipment can you install?

- ✓ Briggs & Stratton
- ✓ Cadenza Innovation
- ✓ Canadian Solar
- ✓ EndurEnergy Systems
- ✓ Enphase Energy
- ✓ Fortress Power
- ✓ FranklinWH
- ✓ Generac PWRcell
- ✓ Homegrid Energy
- ✓ Panasonic
- ✓ PylonTech
- ✓ Qcells
- ✓Sol-Ark
- ✓ SolarEdge
- ✓ StackRack Battery Systems
- ✓ Tesla
- ✓ and more to come!

How does it all add up?

(New incentives are coming soon!)

Standard Rate Example

System size:	**20 kW / 30 kWh**
Cost before incentives:	**$34,000**
Enrollment Incentive:	**$900 or $3,900***
10 Years of Performance Incentives:	**$19,969** (estimated)

Net Cost of Backup Power: $13,131 or $10,131

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

System size:	**20 kW / 30 kWh**
Cost before incentives:	**$34,000**
Enrollment Incentive:	**$900 or $3,900***
10 Years of Performance Incentives:	**$29,954** (estimated)

Net Cost of Backup Power: $3,146 or $146

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

Low Income Rate Example

System size:	**20 kW / 30 kWh**
Cost before incentives:	**$34,000**
Enrollment Incentive:	**$900 or $3,900***
10 Years of Performance Incentives:	**$36,610** (estimated)

Net Benefit of Backup Power: $3,510 or $6,510

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

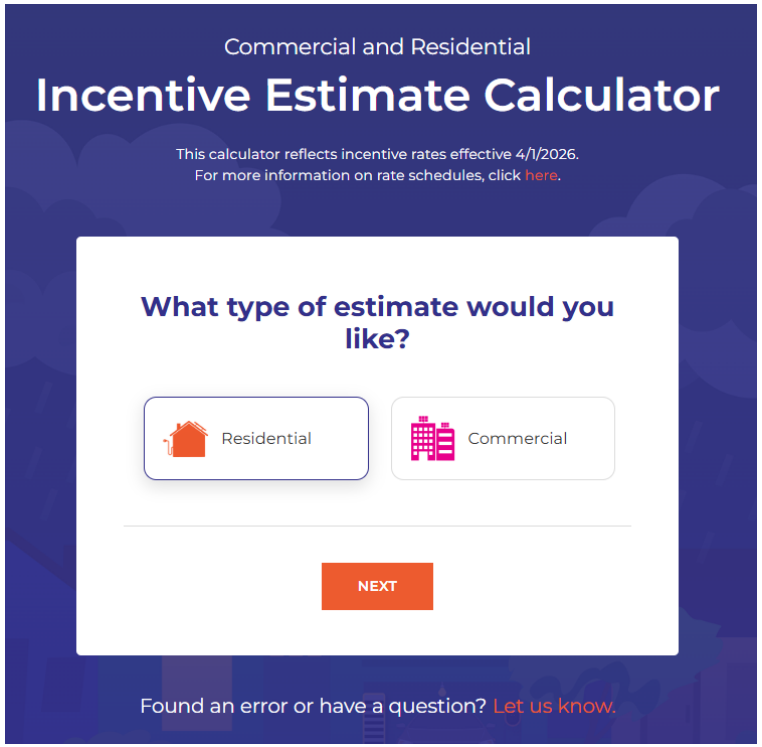
* indicates Grid-Edge. See map for more information
Source: Energy Storage Solutions residential project data

Get Started

energystorageCT.com

- Learn about the Program
- Use our calculator to see what you qualify for
- 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