



GMP Energy Storage



***Thetford Energy Committee
March 28, 2023***

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Innovation Development***

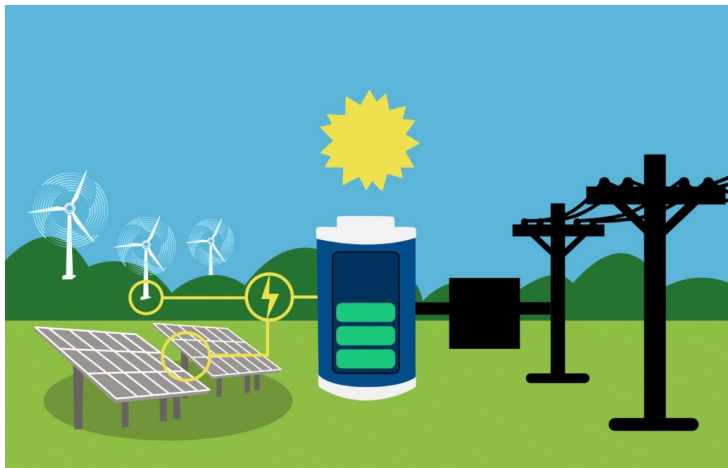
TOPICS

- ▶ Why Energy Storage?
- ▶ GMP Energy Storage Programs
- ▶ Powerwall Performance
- ▶ Peak Shaving 101
- ▶ Bring Your Own Device
- ▶ Energy Storage System (ESS) Program
- ▶ Powerwall Configuration
- ▶ Batteries in Action

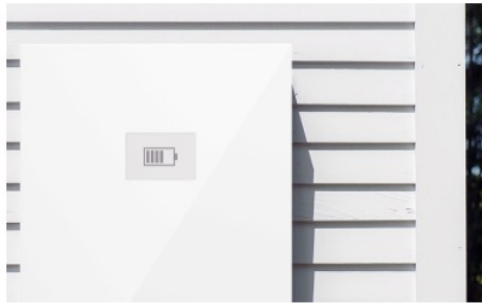


WHY ENERGY STORAGE?

- ▶ Improve Reliability and Resiliency
- ▶ Peace of mind
- ▶ Reduces overall costs for all customers
- ▶ Avoids utilizing dirty and costly peaker plants



GMP ENERGY STORAGE PROGRAMS



Bring Your Own Device

Save money, cut carbon and improve reliability, while helping all GMP customers!



Tesla Powerwall

Reliable and safe electric battery storage.

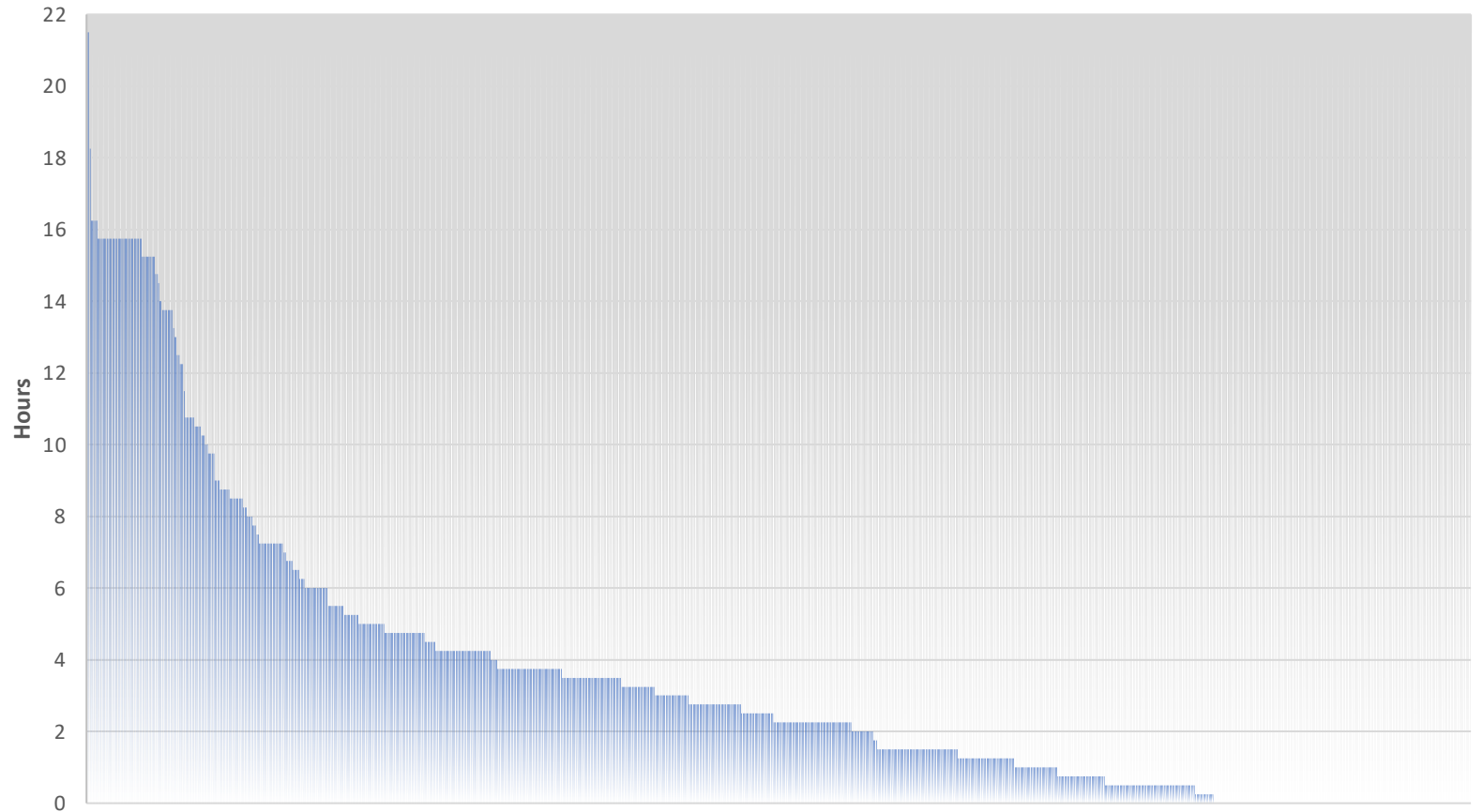
POWERWALL BACKUP PERFORMANCE

March 2023 Nor'easter

- 823 Powerwall Customers
- 3,606 Total Hours of Backup
- Average backup duration: 4 hours
- Average 94% of outage backed up



Backup Energy Provided by Batteries



POWERWALL BACKUP PERFORMANCE

December Storms

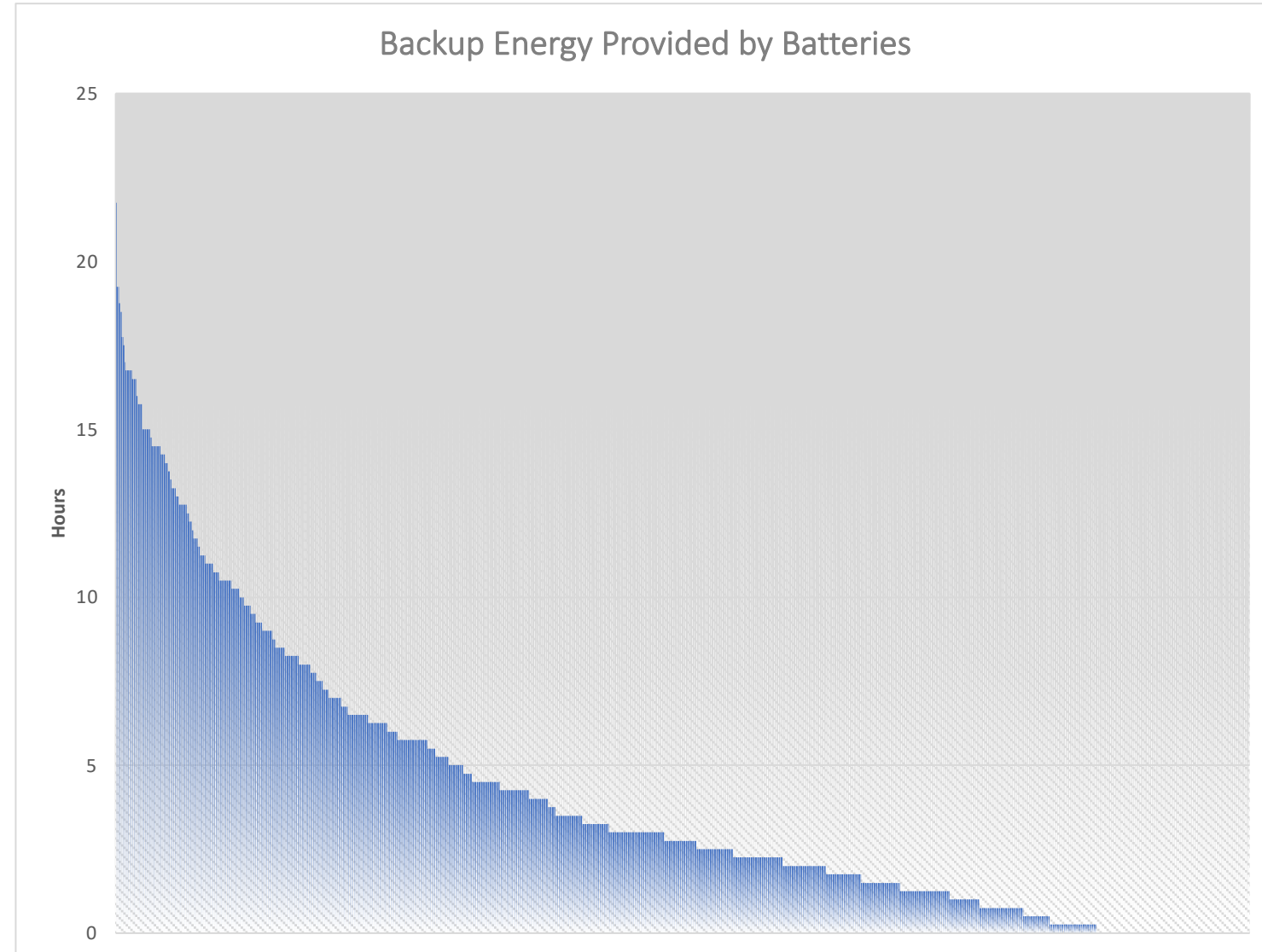
(December 14-29)

- 1549 Powerwall Customers
- 6,300 Total Hours of Backup
- Average backup duration: 4 hours
- Nearly ALL outages fully backed up by batteries

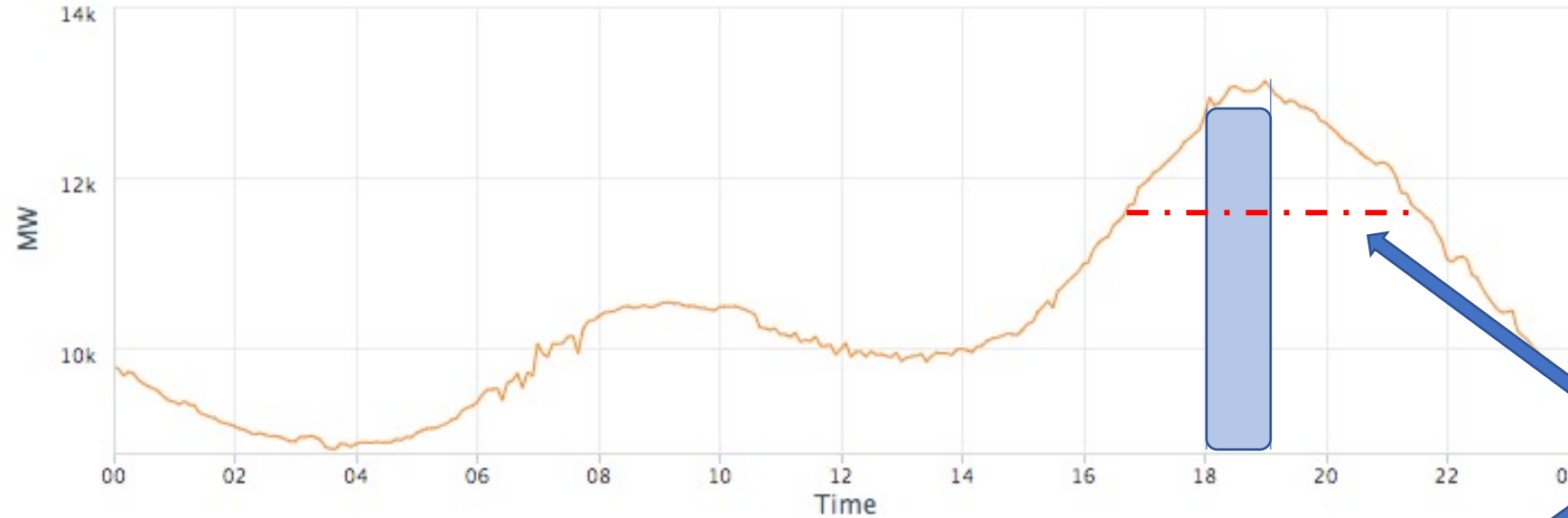
Thetford

- 28 customers
- Average outage & Backup duration: 5 Hours
 - 135 hours combined
- All but one customer fully backed up

*One system appeared to have an issue and did not kick on



PEAK SHAVING: GENERATE SAVINGS FOR ALL CUSTOMERS



- ▶ GMP power supply costs driven by single hour of highest demand each month
- ▶ Batteries clip or lower the peaks by discharging
- ▶ ~5-10 events per month based on GMP forecasts



BRING YOUR OWN DEVICE

- Customer Ownership
- \$850 per kW enrolled into GMP management
- \$100 per kW adder for installations in a constrained area of GMP Grid



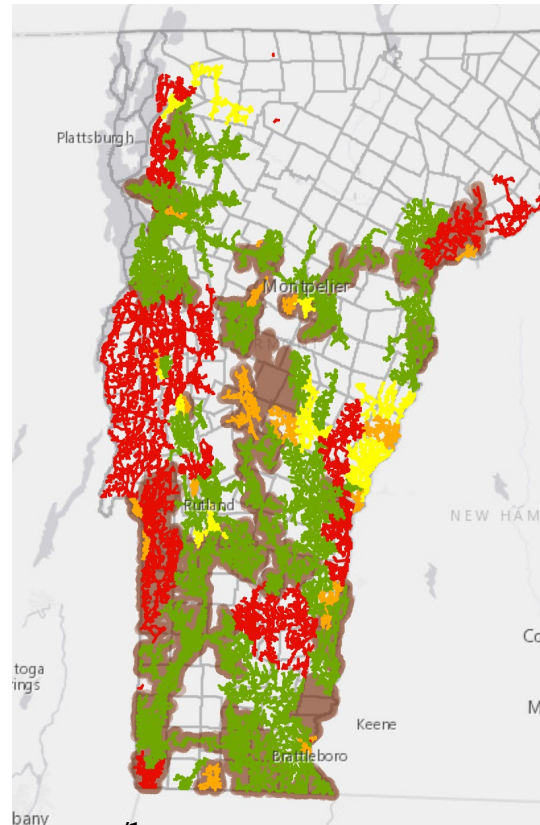
Step 1

Let's sign you up

Signing up for Green Mountain Power's demand management program will help you save energy and money without disrupting your lifestyle. Once your eligibility is confirmed, you can take full advantage of program benefits.

What is your first name? *

<https://gmp.virtualpeaker.io/#/signup/BYOD>



Eligible Devices



<https://greenmountainpower.com/rebates-programs/home-energy-storage/bring-your-own-device/>

ENERGY STORAGE TARIFF



- Two Powerwalls/Whole-home Backup
- \$55/month for 10 years or \$5500 up front
- 27kWh/10kW per system
- GMP Ownership

Current Enrollment

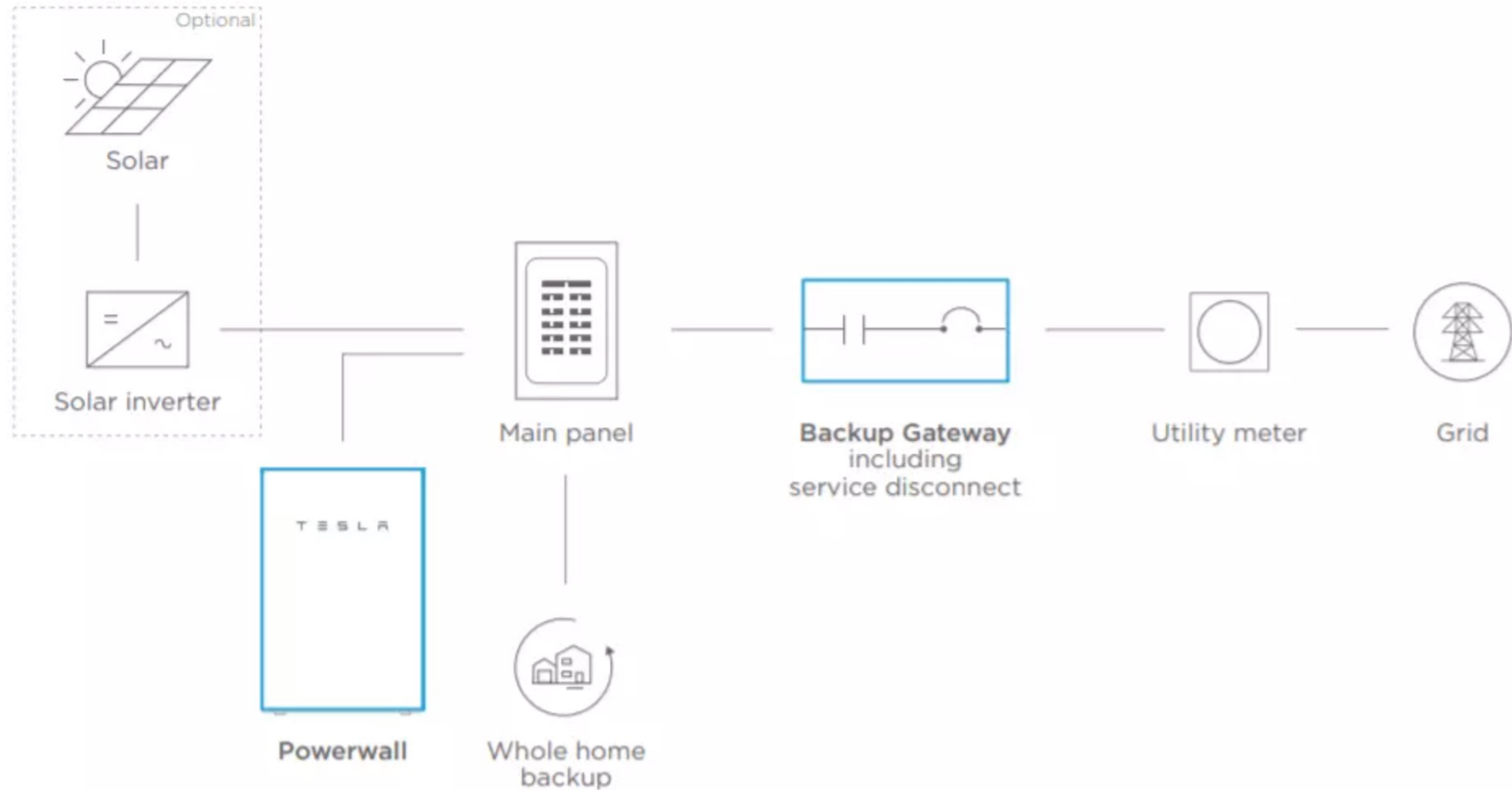
2500 Customers

4300 Powerwalls

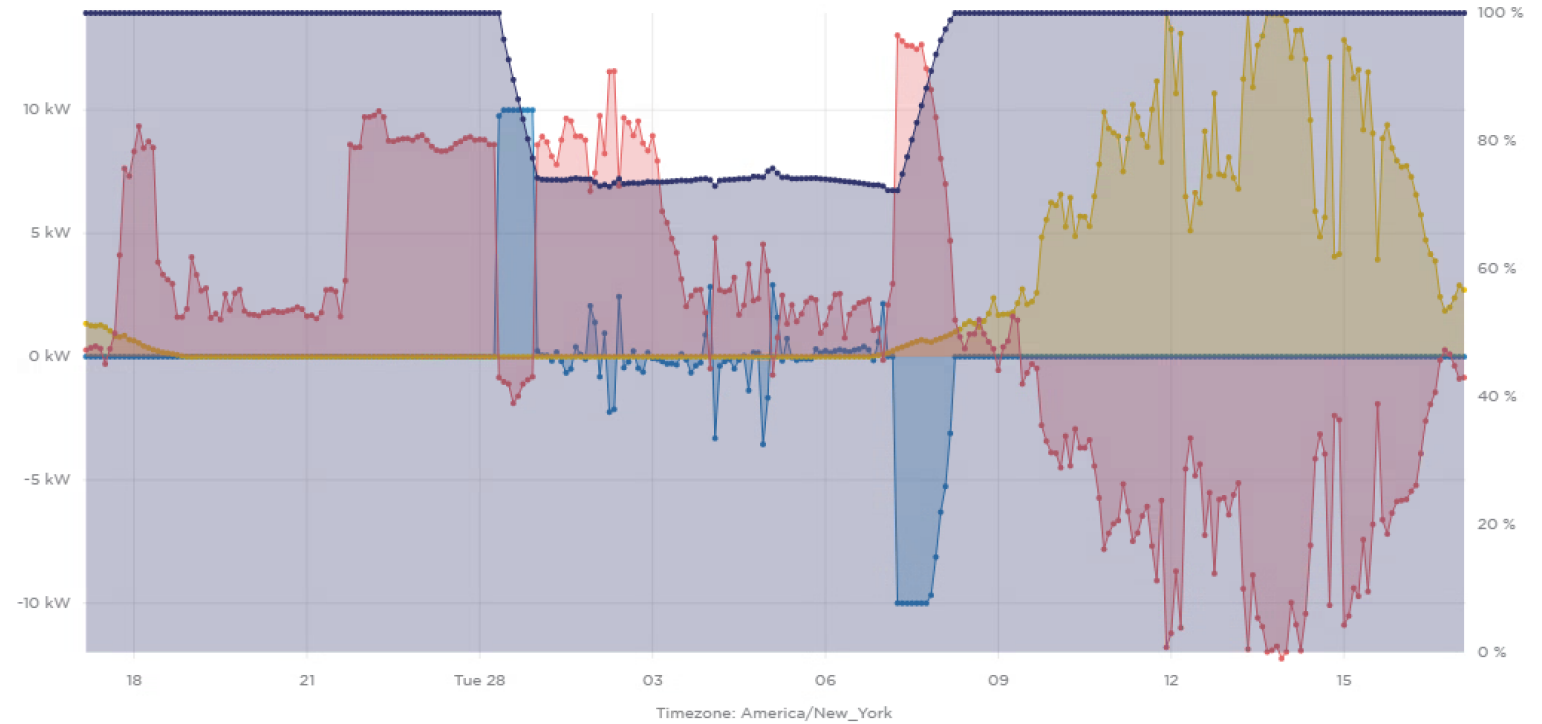
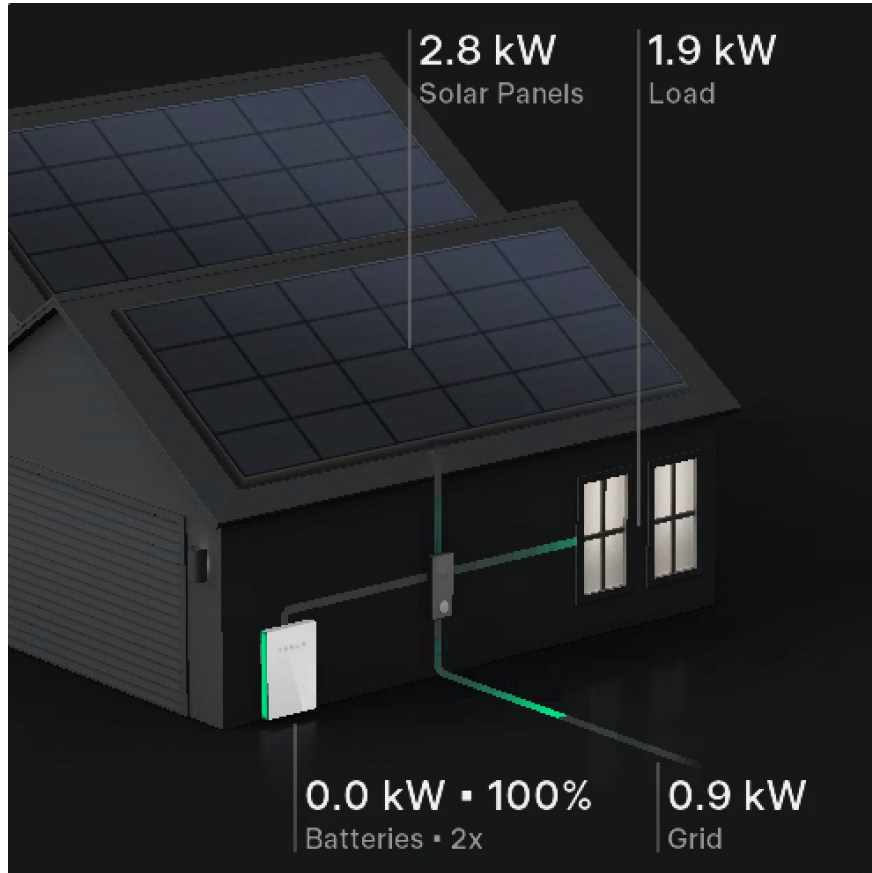
22MW

SOLAR + STORAGE

WHOLE HOME BACKUP



BATTERIES IN ACTION





Questions?

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