Case Study:

Sunrun's Massachusetts ConnectedSolutions Program

Delivering Peak Relief and Customer Savings Through Residential Battery DPPs

At a glance:

Location
MA National Grid
Eversource
Cape Light Compact

1,100+

Scale
Over 875 customers and 1,000 batteries

Impact
Sunrun delivers power during peak grid stress, reducing ratepayer energy costs and ensuring reliability

Overview

Sunrun is helping modernize Massachusetts's electric grid through its participation in **ConnectedSolutions**, a performance-based demand response program administered by National Grid and Eversource, that discharges batteries during peak demand hours – relieving grid stress, reducing emissions, and lowering system costs for all ratepayers.

This program demonstrates how targeted residential battery dispatch can deliver **measurable capacity** without building new peaker plants or overloading transmission infrastructure.

How it works

During the hottest days of summer when energy prices and grid stress peak, Sunrun customers' batteries are discharged in coordination with utility demand response signals.

Grid dispatch is fully automated

Customers retain backup reserve settings

No manual intervention required

Customers receive guaranteed payments for participation

SUNRUN

Grid + Customer Value

Benefit Type	Value Delivered
Peak Demand Reduction	Relieves pressure on ISO-NE grid
Emissions Reduction	Avoids fossil peaker plant use
Ratepayer Savings	Reduces capacity and transmission charges
Customer Payments	Hundreds of dollars per year in battery rewards
Fast Deployment	No infrastructure buildout required

Policy & Market Alignment

ConnectedSolutions shows what's possible when **distributed energy resource** programs are aligned with utility planning, ISO markets, and customer economics:

- **Supports ISO-NE reliability without infrastructure buildout**
- **Aligns with Massachusetts' Clean Energy and Storage Mandates**
- **Creates equitable access to grid service revenue for homeowners**

Conclusion

Sunrun's DPP in the ConnectedSolutions program proves that **residential storage can function as reliable, dispatchable grid capacity** – at scale and with customer buy-in. It offers a replicable model for other states seeking cost-effective, flexible, and clean demand-side solutions to today's grid challenges.

SUNRUN