



MASSACHUSETTS
**CLEAN ENERGY
CENTER**

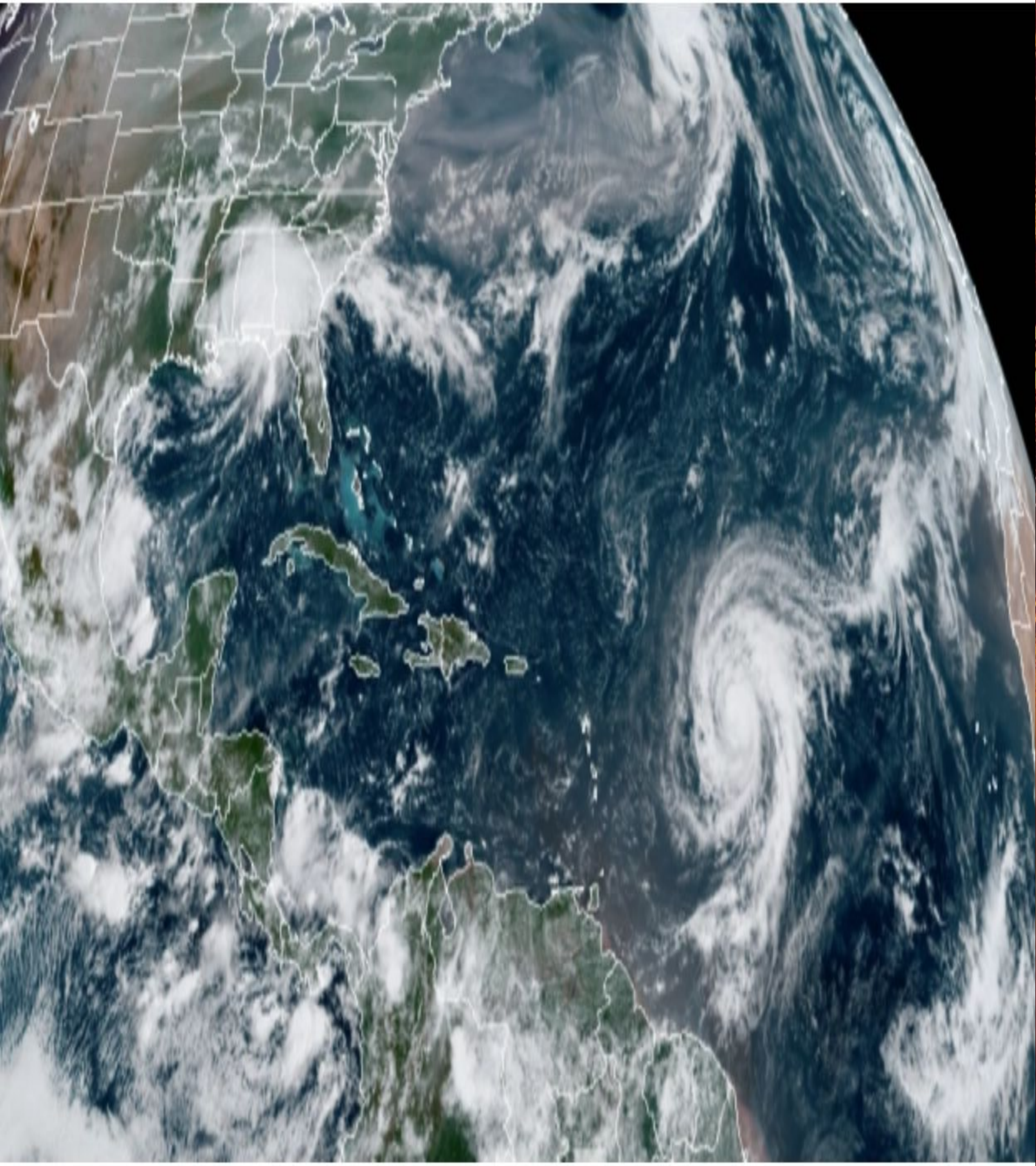
MassCEC Clean Energy for Resiliency (CLEAR): West Tisbury Board of Selectmen Meeting



9 December 2020



CONVERGE
STRATEGIES



West Tisbury Awarded Grant Funding Clean Energy and Resiliency Program (CLEAR)



Objectives of CLEAR Funding

- **Create resilient facilities** to reduce economic losses from major power outage events
- **Lower services interruption** time for utility customers
- **Provide a replicable model** for outage recovery events

West Tisbury Energy Committee's Sustainability and Resilience Goals Emphasize *Clean Backup Power*

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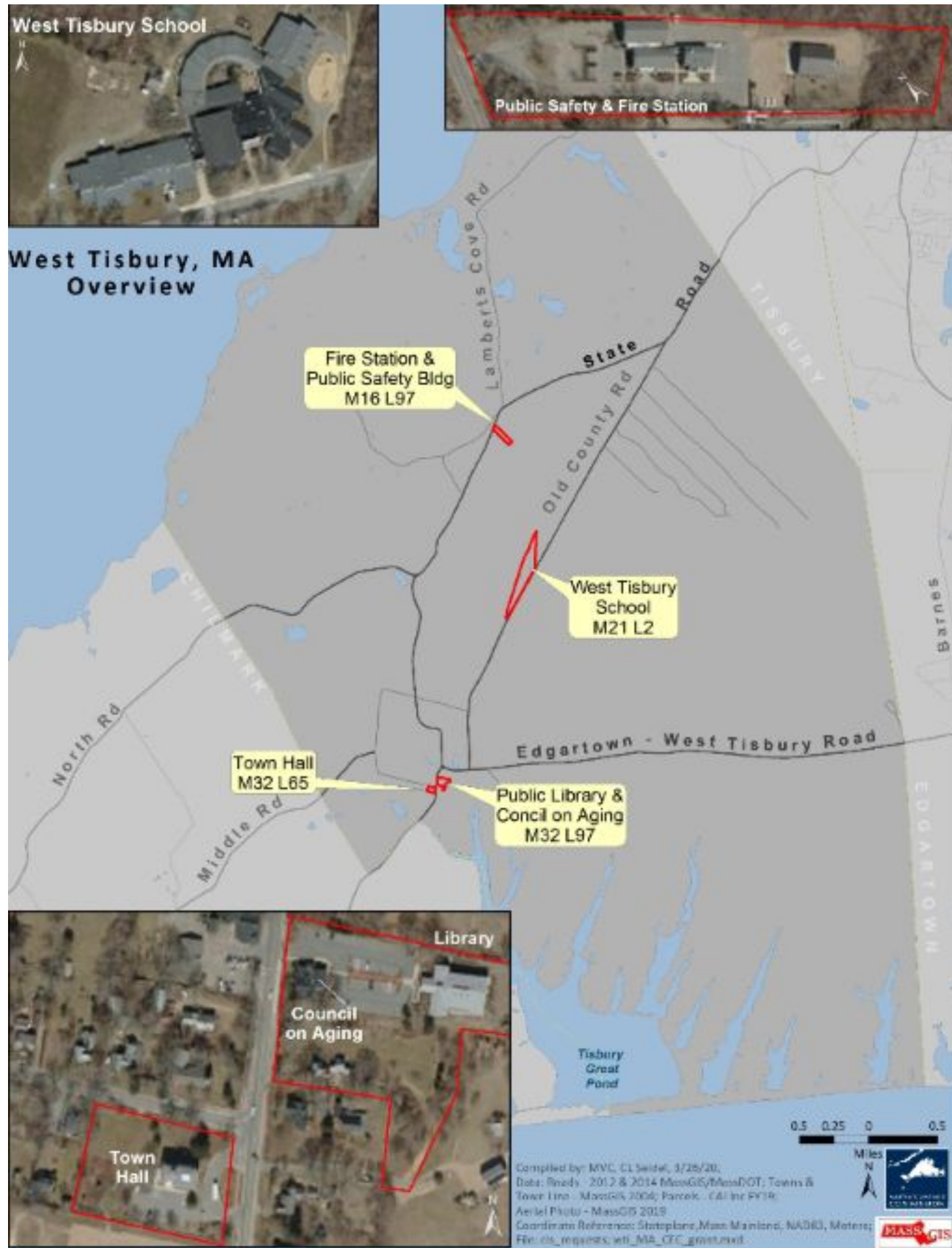
*“For municipal properties in particular, the first priority will be to establish enough **solar power with battery backup** (vs. generators) to keep functioning regardless of the weather.”*

-2019 West Tisbury Annual Town Report

October 2020: West Tisbury votes to “eliminate the town’s reliance on fossil fuels by 50% by 2030 and 100% by 2040.”

West Tisbury Buildings Receiving Energy Resilience Site Assessments + Modeling

1. Fire Station One
2. Public Safety Building
3. West Tisbury School
4. Town Hall
5. Public Library
6. Up-Island Council on Aging



Goals for the West Tisbury Energy Review

Evaluate the potential
for solar and storage



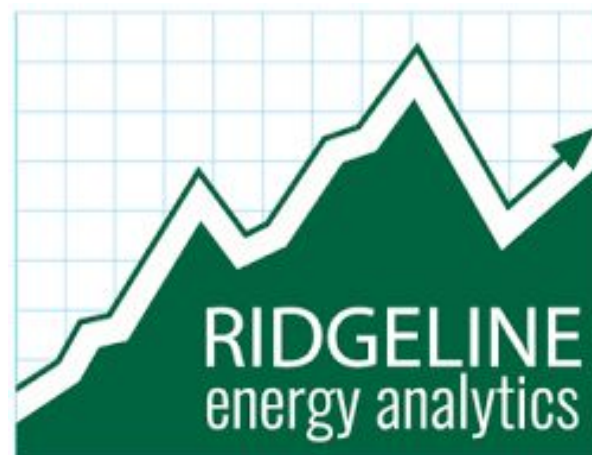
Confirm the electrical
systems and back-up power



Confirm the
critical loads



Identify additional
opportunities for efficiency



West Tisbury Energy Review



Public Safety Building

TECHNOLOGY

Solar and Storage

CRITICAL LOADS

Communications | Charging



Fire Station One

TECHNOLOGY

Solar and Storage

CRITICAL LOADS

Communications | Charging



West Tisbury School

TECHNOLOGY

Solar and Storage

CRITICAL LOADS

Shelter Capabilities

West Tisbury Energy Review



Up-Island Council on Aging

TECHNOLOGY

Access to Library Solar and Generator

CRITICAL LOADS

Communications | Lighting



West Tisbury Town Hall

TECHNOLOGY

Solar and Storage

CRITICAL LOADS

Computer Servers

Preliminary Analysis: West Tisbury Library 1 Day Outage



West Tisbury Library and Cooling Center

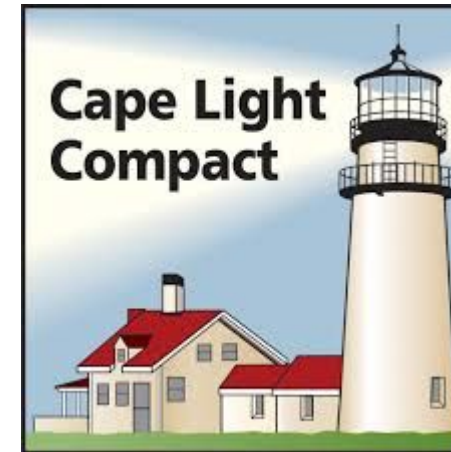


Rooftop Solar + Storage

Installed PV (kW)	65 kW
Cost	\$271,000
Simple Payback	9 years
CO₂ Savings	66%



State Incentives for Resilience Technologies



CONNECTEDSOLUTIONS

Technology	Solar + Storage
What is it?	10-year premium payments for solar electricity

Technology	Energy Storage
What is it?	Payments to dispatch battery when the grid needs help during hot summer days

Grant Opportunities For Energy Resilience

MVP Action Grant



Technology	Solar + Storage
What is it?	Clean energy for resilience is now eligible for grant funding

Green Communities



Technology	Energy Storage
What is it?	Energy storage for back-up power is now eligible for grant funding



THANK YOU!



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