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# Energy Storage System Operations in Maine and New England

## Presentation to the Maine Energy Storage Commission – Augusta, Maine

November 6, 2019

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ENGIE Storage

# ENGIE in New England

We are the world's largest energy services company that serves utilities and customers in over three dozen countries, and over 110 GW of installed capacity worldwide.

- Commissioning approximately 100 MW / 200 MWh in 2019-2020 across New England
- Active industry participant in the MA SMART, Clean Peak Program
- Operator of several ISO-NE participating batteries, including one in Maine
- Owner / operator of several biomass and solar assets across New England
- Developing new products / services for utilities and renewable asset owners

Location	Storage Technology Type	Project Size/Capacity	Project Status
Madison, ME	FTM standalone battery	5 MW / 10MWh	Operational
Madison, ME	BTM municipal battery	2 MW	Q4 2019 Operations
Holyoke, MA	FTM battery paired with solar (5 MW)	3 MW / 6 MWh	Operational
Acushnet, MA	Battery energy storage	1500 kW / 3000 kWh	Operational

# ENGIE Storage

We build **turnkey energy storage solutions** that serve consumers and producers on both sides of the meter.

- US Storage Division HQ in Silicon Valley
- Over 170 energy storage projects (100 MWh)
- Ranked #1 provider by Navigant Research
- Pioneer of innovative commercial structures
- Backing of world's largest energy services company

## Key Services



Energy Site Analysis  
& System Design



Hardware Integration,  
Interconnection & Operations



Software Service Stacking  
& Aggregation



Performance-based Financing Options  
& Guarantees

## Customer Examples

### Businesses & Government



### Utilities & Network Operators





“HG&E is pleased to work with ENGIE on this project which expands our portfolio of low-cost renewable energy and helps us maintain some of the lowest electric rates in the region.”

James M. Lavelle, Manager  
Holyoke Gas & Electric



**Service Area:** Northeastern U.S.

**Size:** 3 MW / 6 MWh

### Customer Challenge

High annual coincidental peak demand charges.

### ENGIE Storage Solution

Design, finance, supply, and install an energy storage system to work with a solar PV system. 20-year commitment to operate system and integrate controls with HG&E’s asset control and monitoring system.

### Services

- Coincidental Peak Demand Shaving
- Solar firming
- Capacity

## Operations / Diagnostics

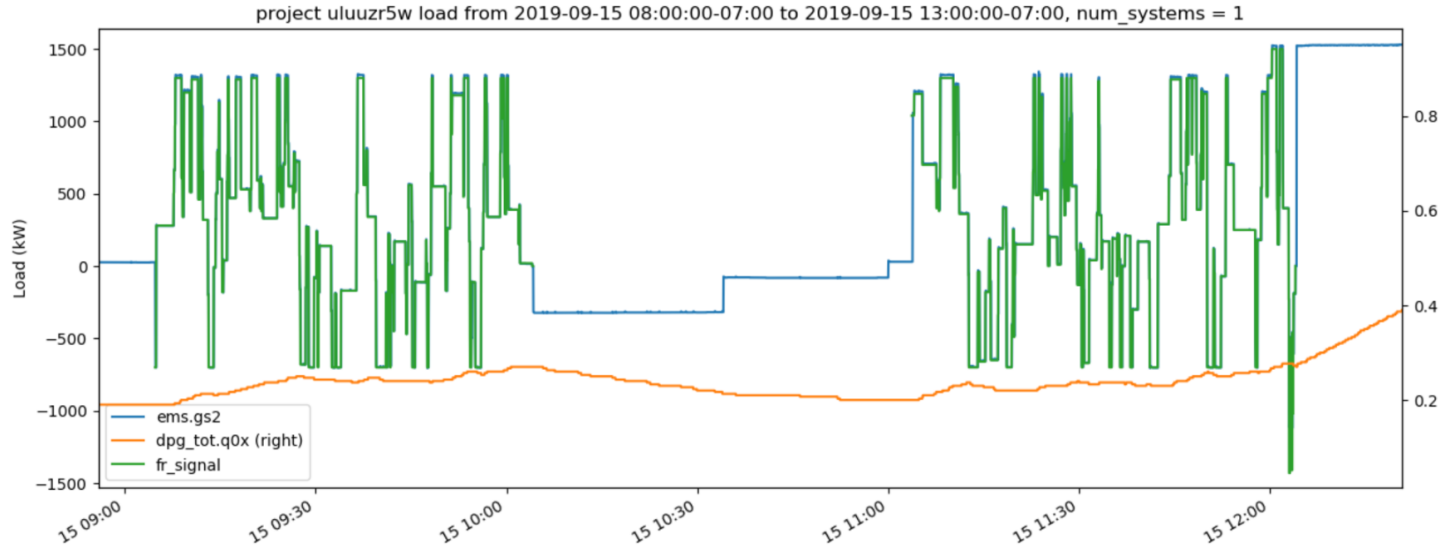
Hourly SOC checks per ISO-NE requirements in advance of delivery hour; any GridSynergy-generated system errors (e.g., voltage out of range, high module temperature, etc.)

## Asset Management

Regular communications on planned outages, emergency event response, real-time unplanned outages between ISO and ENGIE.

## ENGIE-Customer Communications

Automatic email notification to customer desk via GridSynergy of impending time window of dispatch, amount of kW, and reason for dispatch (e.g., RNS/LNS or ICAP). Override with notice as necessary.



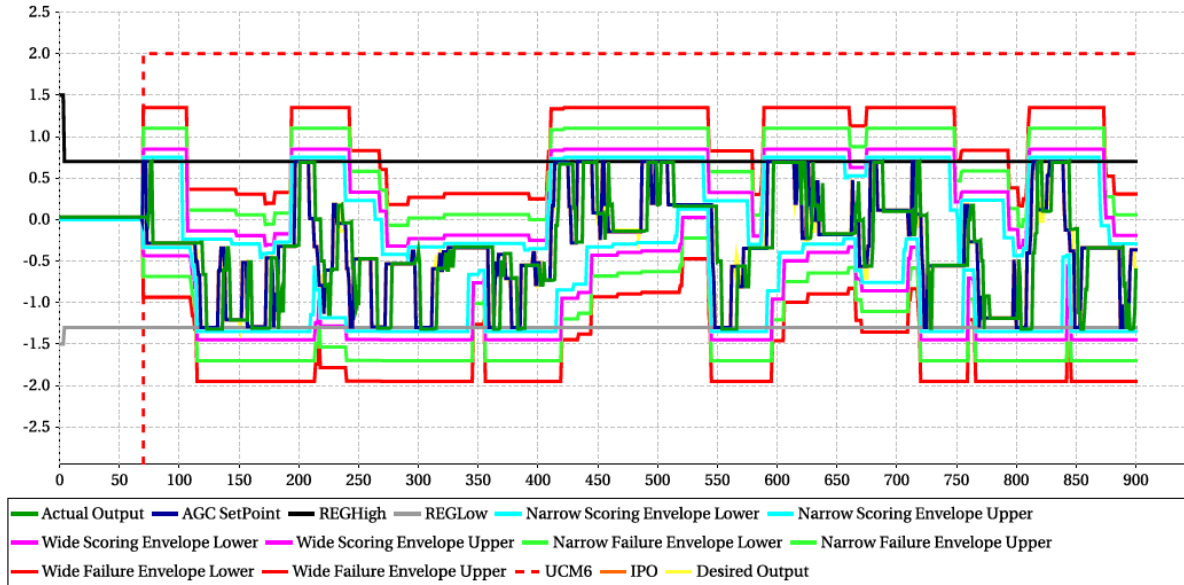


## Regulation Monitor Reports

Resource Name: ACHB Score: 100%

For Hour Ending: 09/15/2019 13:00:00 Type: Production

RegMon Report ran at: 09/15/2019 13:03:06

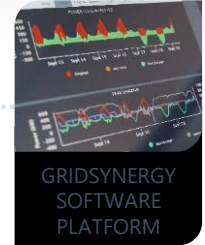




KYZ or CT



Cellular 4G

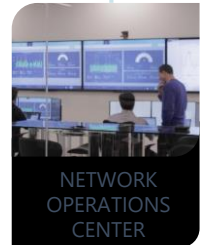


GRIDSYNERGY  
SOFTWARE  
PLATFORM

RS-485



GRIDSYNERGY STORAGE UNIT



NETWORK  
OPERATIONS  
CENTER

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QUESTIONS?

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An aerial photograph of a large solar farm at sunset. The solar panels are arranged in neat rows, and the sun is low on the horizon, casting a warm orange glow over the scene. In the foreground, there are several blue and white containers or trailers. The background shows a line of trees and rolling hills under a colorful sky.

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