

Capturing Energy Storage Value in ISO-New England

stem

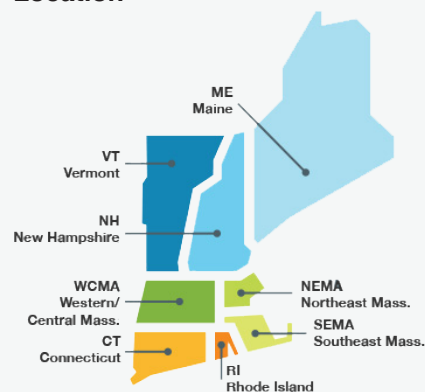
Four out of six New England states have 100% clean energy goals requiring an enormous expansion of solar as well as onshore and offshore wind to meet these targets. Battery energy storage will need to play an increasingly important role to help integrate these intermittent generation resources into the grid to provide reliability and resilience.

There are opportunities for storage to capture significant arbitrage revenue, largely due to the expected injection of offshore wind capacity over the next decade. This will be especially true during winter months with robust wind generation driving down energy prices during the off-peak overnight hours and high natural gas prices driving up on-peak prices.

Why Partner with Stem?

Stem is the preeminent battery optimization provider in the ISO-New England (ISO-NE) market. Stem currently operates nine commercial projects in ISO-NE and has a contracted portfolio of 15+ projects across our many partners that will become operational in coming years. With Stem, partners realize exceptional returns across all ISO-NE revenue streams—including day-ahead and real-time energy, forward and real-time reserves, frequency regulation, and forward capacity. Our Athena® platform co-optimizes wholesale market participation with any available state-level incentives, such as the Solar Massachusetts Renewable Target (SMART) and Massachusetts Clean Peak Energy Standard programs.

Location



Source: www.iso-ne.com

Best-in-Class Platform Drives Ongoing Market Success

Stem's combination of market expertise and industry-leading software offers a differentiated solution for wholesale energy market participation. By adapting to dynamic market conditions to maximize the value of your storage assets over their lifetime, Stem's Athena PowerBidder™ Pro generates multiple data forecasts and then overlays economic and operational constraints to produce energy bids that are optimized for each market interval. Athena offers unrivaled automation so our partners can focus on the strategic decisions while our technology handles repetitive tasks.

Athena also integrates with market systems via a flexible gateway that supports a wide variety of industry-standard protocols—such as DNP3 - as well as specific integrations with scheduling coordinators and utility control centers.

Entire Lifecycle Support Services for Energy Storage

Project Development Services

Development consulting and revenue simulation services.

Project Delivery Services

Procurement, design & engineering, and provisioning & commissioning.

Operations Management & Support

Warranty management, system health monitoring, preventative maintenance, and performance guarantees.

Investment Tax Credit

Capture the ITC for your standalone or solar-plus-storage projects in addition to optimizing for other value streams.

Asset Operations Services

Trading strategy development, managed bid optimization & scheduling, managed programs, and a 24/7 Remote Operations Center.

Project Highlights



Altus Power New Marlborough, MA

Use Cases

Solar + Storage, SMART and Clean Peaks Optimization, Wholesale Energy Markets

System Size

2.9MW and 1MW / 2 MWh



Syncarpha Capital Blandford, MA

Use Cases

Solar + Storage, SMART Program Optimization

System Size

4MW / 8MWh



Kearsarge Energy Haverhill, MA

Use Cases

Solar Solar + Storage, SMART Program Optimization, Wholesale Energy Markets

System Size

PV 3.6 MW and Storage 2 MW / 9 MWh

To learn more about Stem's solutions, contact stem.com/iso-new-england.

