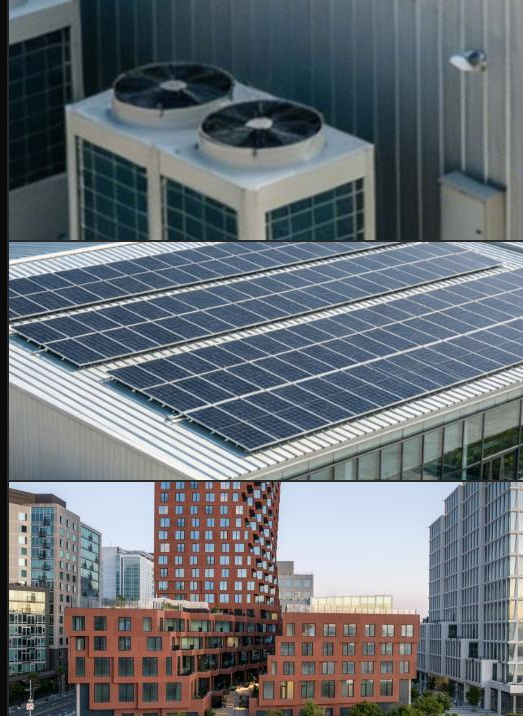


¶ BESS MANAGEMENT SOLUTION

See the *value* battery storage could unlock at your sites — before you invest.

Brightmerge models the savings, resilience, and revenue that battery energy storage could deliver at sites that don't have it yet — so you can commit capital with confidence. Already operating? The same platform optimizes what you already run.



Operational excellence for battery storage

OVERVIEW

Brightmerge empowers real estate, fleet, and distributed energy owners and managers to efficiently plan, operate, and optimize battery energy storage systems through an integrated software platform. It delivers actionable intelligence, seamless interoperability, and automated dispatch planning — so you achieve peak performance, maximize asset value, increase energy savings, and meet carbon-reduction goals.

Optimized daily dispatch

ILLUSTRATIVE OUTPUT

OFF-PEAK • CHARGE

MID

MID

PEAK • DISCHARGE

DISCHARGE

0 MW

CHARGE

0

6

12

18

23

■ Discharge to load / grid ■ Charge from grid

↳ Plan derived from forecasts, tariff windows & SOC limits

KEY FEATURES & CAPABILITIES

Everything you need to plan, operate, and optimize.

01 Dynamic charge / discharge control CONTROL

Set and enforce charging schedules, power limits, and SOC thresholds against real-time site demand, tariff windows, and energy priorities — with max/min SOC, import/export limits, and ramp rates per asset or across asset groups.

02 Automated dispatch planning OPTIMIZE

Daily dispatch plans fold in forecasts, real-time inputs, and environmental targets to maximize savings and meet SLAs. Review each plan, or opt into auto-approval for continuous, hands-off operation.

03 Open standards integration INTEROP

SunSpec Modbus TCP, OpenADR, and OCPI support for seamless integration with OEM BESS hardware and utility systems — automated control and interoperability across the DER ecosystem.

04 Fallback autonomy RESILIENCE

Autonomous fallback strategies keep energy flowing through communication loss, holding operation on pre-set logic: load balancing, executive priority, or equal-sharing modes.

05 Real-time monitoring & reporting VISIBILITY

Track energy flows, SOC, and charge/discharge behavior against plan. Built-in reports visualize daily, weekly, and monthly performance, financial savings, and environmental impact.

06 Multi-scenario analysis PLAN

Simulate energy-asset configurations to compare IRR, NPV, and payback across scenarios — fine-tuning BESS capacity, duty cycle, and tariff assumptions to find the most effective strategy.

07 Unified API & proxy control layer

Rapidly connect new BESS units through a proxy-based asset interface. Standardize communication across mixed-vendor hardware to accelerate onboarding and simplify control.

ONBOARDING

Built on open standards

INTEROPERABILITY

SUNSPEC

Modbus TCP

Direct integration with OEM BESS hardware

OPENADR

Demand response

Automated participation in utility DR programs

OCPI

DER ecosystem

Interoperable control across connected assets

Customer benefits		IMPACT
✓ Reduce grid energy dependence through intelligent BESS utilization	✓ Lower total cost of ownership via energy arbitrage and peak shaving	
✓ Avoid peak tariffs with smart time-of-use planning	✓ Ensure compliance with utility DR programs through OpenADR participation	
✓ Enhance system resilience and continuity — even during outages		

WHAT A PERFORMANCE REPORT LOOKS LIKE

Brightmerge

BESS MANAGEMENT

PERFORMANCE REPORT
Generated Jun 2026

ESTIMATED ANNUAL SAVINGS — 5-YEAR AVERAGE

\$412.0K

Combined savings from energy arbitrage, peak shaving, and demand-response revenue, net of operating cost.

ENERGY ARBITRAGE

Charge · off-peak

\$0.09

Discharge · peak

\$0.31

Spread

\$0.22

CYCLES / YEAR

328

PEAK SHAVED

1.4MW

ROUND-TRIP EFF.

88%

AVAILABILITY

99.2%

MULTI-SCENARIO COMPARISON

SCENARIO	CAPACITY	DUTY	IRR	NPV	PAYBACK
Conservative	2.0 MWh	0.8×	11.4%	\$0.9M	6.1 yr
Base case	4.0 MWh	1.2×	16.8%	\$2.4M	4.3 yr
Aggressive	6.0 MWh	1.6×	14.1%	\$3.1M	5.2 yr

↳ Illustrative demo · figures vary by site, tariff, and duty cycle

Your strategic partner in battery storage.

From design simulation to operational dispatch — realize the full economic and environmental value of localized energy storage.

brettm@brightmerge.com · Brett Muney, U.S. Director of Sales

BOOK A CALL →