

FACILITIES AND OPERATIONS MANAGERS

ABB ENGINEERED
TO OUTFIT

TAKE CONTROL OF YOUR ENERGY

A Guide to Battery Energy
Storage Systems-as-a-Service for
Facilities and Operations Managers





BATTERY ENERGY STORAGE SYSTEM



The Future of Energy Management with BESS-as-a-Service

Businesses are facing mounting pressure to optimize energy use, reduce costs, and meet sustainability targets.

An increasing reliance on electrified infrastructure – whether for managing power demand, generating and utilizing renewable energy, or supporting electric vehicle (EV) infrastructure – has meant many businesses have turned to onsite battery energy storage systems (BESS).

BESS solutions present an opportunity to totally transform the way your business thinks about power. They allow businesses to store, manage, and deploy energy intelligently.

However, implementing and maintaining BESS can be complex, requiring technical knowledge, capital investment, and ongoing management. This is where strategic partnerships with experienced energy technology providers become invaluable.

With **BESS-as-a-Service from ABB**, facilities managers and operations directors can take advantage of cutting-edge battery storage solutions without the financial burden or operational risk.

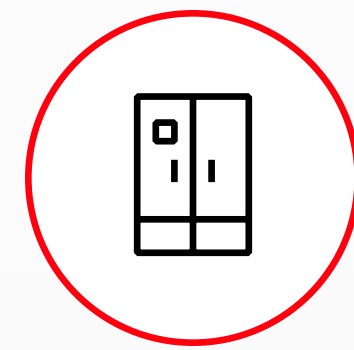
But what makes a facility the right candidate for BESS? Businesses that already have renewable generation on site – or a plan to implement it – stand to benefit the most. A clear understanding of current and future power demand also ensures that energy storage is tailored to operational needs. Most importantly, BESS-as-a-Service removes the complexity and risk, allowing teams to integrate energy storage seamlessly without the need to retrain staff or manage new infrastructure.

This playbook will guide you through the strategic and operational advantages of BESS-as-a-Service, helping you future-proof your facility while optimizing costs, enhancing sustainability, and ensuring energy resilience – all in partnership with a world leader in energy technology.

Andressa Ferraz 

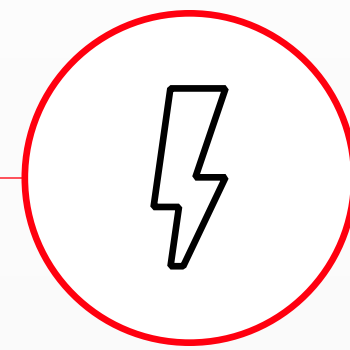
Global Product Manager BESS-as-a-Service
ABB Electrification Service

key benefits of BESS



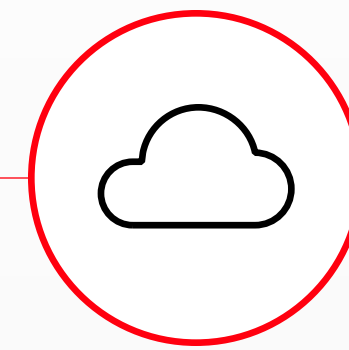
Emissions-free back-up power available in milliseconds

A BESS can be used to provide backup power in place of traditional diesel-powered generators for the early stages of any downtime – often eliminating the need to burn any fossil fuel at all.



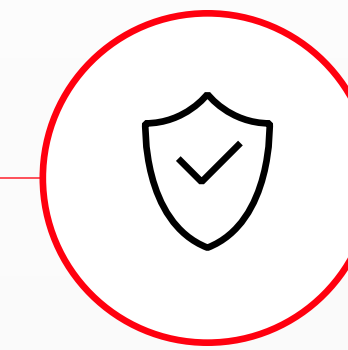
Voltage smoothing

A BESS helps absorb voltage spikes and compensate for drops in real time, stabilizing fluctuations in electricity supply and ensuring consistent power delivery to your facility.



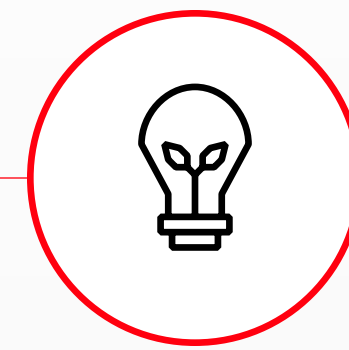
Avoid wasting generated energy

If you generate your own renewable energy through solar panels or wind turbines, excess power output is wasted unless it can be stored. A BESS solution allows you to store power for when the sun doesn't shine and the wind doesn't blow.



Improved system reliability

By smoothing out power delivery and eliminating sudden surges or drops in supply, a BESS can prevent wear on your wider electrical infrastructure.



Improve sustainability reporting with lower emissions

By maximizing the use of renewable energy, reducing or eliminating the use of diesel-powered back-up generators, and improving tracking and reporting capabilities, a BESS solution helps with ESG and sustainability reporting.

And all this with no up-front costs for your business with ABB's as-a-service offer.

What makes the ABB 'as-a-service' model unique?

- ✓ Zero up-front capital expenditure required
- ✓ No specialist knowledge needed – all ongoing operations and maintenance is handled by ABB
- ✓ From scoping and capital works to installation, all implementation is managed by ABB
- ✓ Bundled with software that handles energy monitoring and management
- ✓ All managed through a single provider, as opposed to working with multiple suppliers
- ✓ Scalable for future growth, with hardware and software guaranteed for life of contract
- ✓ A partnership with a trusted advisor who can assist with maintenance and modernization of your entire electrical infrastructure



How to prepare your site for a **BESS** solution

1

Collaborate with ABB to evaluate facility needs, energy requirements, and grid constraints.

2

Data sharing – collect and provide access to energy usage data, energy generation data, and work with ABB to design the ideal BESS solution.

3

Continued coordination with ABB specialists to optimize specification, installation, testing and integration.

NEXT STEPS



Find out more about
BESS-as-a-Service

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