



# Industrial battery energy storage system

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This change to energy generation and consumption is being driven by three powerful trends: the arrival of increasingly affordable distributed power technologies, decarbonization of the world's electricity network through the introduction of more renewable energy sources, and the emergence of digital technologies.

The rapid deployment of low-carbon technologies such as wind and solar is making it increasingly difficult to forecast variable generation, creating challenges around grid stability, congestion and market volatility.

More connected devices and smart sensors create fast decision-making on dynamic and nodal prices, while intelligent control systems and internet-enabled software optimize power plants and the grid.

The growing penetration of distributed energy resources, including renewables and storage, is creating more "prosumers" and increasing distribution grid complexity.

A battery energy storage solution offers new application flexibility and unlocks new business value across the energy value chain, from conventional power generation, transmission & distribution, and renewable power, to industrial and commercial sectors. Energy storage supports diverse applications including firming renewable production, stabilizing the electrical grid, controlling energy flow, optimizing asset operation and creating new revenue.

For renewables developers, energy storage offers a faster alternative to a PPA, which may have a lead time of a year or more. For utilities, energy storage offers relevancy with increased distributed generation.

GE worked with us to create a fully integrated energy storage solution that helps meet the growing needs of the local transmission system. The project utilizes reliable GE equipment and products ranging from enclosures through the point of utility interconnection -- a strategy that is cost-efficient, simplifies system warranties and guarantees, and provides a financeable solution to our customers."

broad portfolio of energy storage solutions can be tailored to your operational needs, enabling efficient, cost-effective storage distribution and utilization of energy where and when it's needed most--and all backed by a GE performance guarantee. Our expert systems and applications teams utilize specialized techno-economic tools to help optimize the lifetime economics of a project. Our approach results in an investment grade business case that provides the basis of project planning and financing. We're with you every step of the way:

Learn more about the challenges associated with the transforming global energy system and how GE's Reservoir can help maximize power utilization to improve efficiency and profitability.

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