



New Energy Projects Energy Storage Projects

What is an energy storage project?

An energy storage project is a cluster of battery banks (or modules) that are connected to the electrical grid. These battery banks are roughly the same size as a shipping container. These are also called Battery Energy Storage Systems (BESS), or grid-scale/utility-scale energy storage or battery storage systems.

Where are the energy storage projects located?

The energy storage projects will be located at three existing SCE power substations: 225 MW at Springvale Substation in Big Creek-Ventura, 200 MW at Hinson Substation in the Los Angeles Basin, and 112.5 MW at Etiwanda Substation in the Los Angeles Basin.

What is the future of energy storage?

Storage enables electricity systems to remain in balance despite variations in wind and solar availability, allowing for cost-effective deep decarbonization while maintaining reliability. The Future of Energy Storage report is an essential analysis of this key component in decarbonizing our energy infrastructure and combating climate change.

What is the largest European battery-based energy storage project?

In May 2023, we launched our largest European battery-based energy storage project at the Antwerp platform in Belgium. With its 40 containers, the site will develop a capacity of 75 MWh, which is equivalent to the daily consumption of almost 10,000 homes.

Why do we need a co-optimized energy storage system?

The need to co-optimize storage with other elements of the electricity system, coupled with uncertain climate change impacts on demand and supply, necessitate advances in analytical tools to reliably and efficiently plan, operate, and regulate power systems of the future.

Why is energy storage important?

Energy storage is a potential substitute for, or complement to, almost every aspect of a power system, including generation, transmission, and demand flexibility. Storage should be co-optimized with clean generation, transmission systems, and strategies to reward consumers for making their electricity use more flexible.

MITEI's three-year Future of Energy Storage study explored the role that energy storage can play in fighting climate change and in the global adoption of clean energy grids. Replacing fossil fuel-based power generation with power ...



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