

Smart Grid Sector

Energy Storage Sector





Overview

What role does energy storage play in a smart grid?

Asset class position and role of energy storage within the smart grid As utility networks are transformed into smart grids, interest in energy storage systems is increasing within the context of aging generation assets, heightening renewable energy penetration, and more distributed sources of generation .

Is energy storage a distinct asset class within the electric grid system?

The authors support defining energy storage as a distinct asset class within the electric grid system, supported with effective regulatory and financial policies for development and deployment within a storage-based smart grid system in which storage is placed in a central role.

How do grid operators use energy storage?

Currently, grid operators would use strategies, such as back-casting (using historical data to predict economically desirable deployment schedules) to apply energy storage. This strategy does not completely capture arbitrage value due to near time weather and usage variations (only 85%) .

Is China committed to Smart Grid development?

China's amended Renewable Energy Law of 2009, which specifies the development and deployment of smart grid technologies and energy storage to improve grid operation and management, and facilitation of the integration of renewables is one of the country's piece of legislation that indicates China's commitment to smart grid development , .



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(PDF) Energy Storage Technologies in Smart Grids

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