

Application direction of new energy storage technology



Overview

This paper provides a detailed and comprehensive overview of some of the state-of-the-art energy storage technologies, its evolution, classification, and comparison along with various area of applications. Energy storage technologies absorb and store energy, and release it on demand. This includes gravitational potential energy (pumped hydroelectric), chemical energy (batteries), kinetic energy (flywheels or compressed air), and energy in the form of electrical (capacitors) and magnetic fields. Replacing fossil fuel-based power generation with power generation from wind and solar resources is a key strategy for. The worldwide ESS market is predicted to need 585 GW of installed energy storage by 2030.

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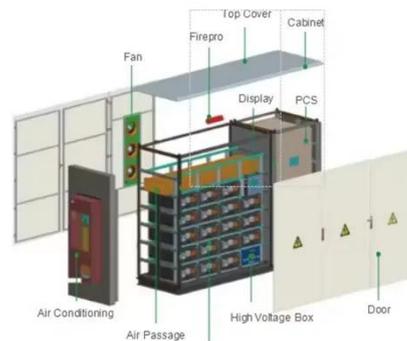
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June 7 Panel

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The Future of Energy Storage , MIT Energy Initiative

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