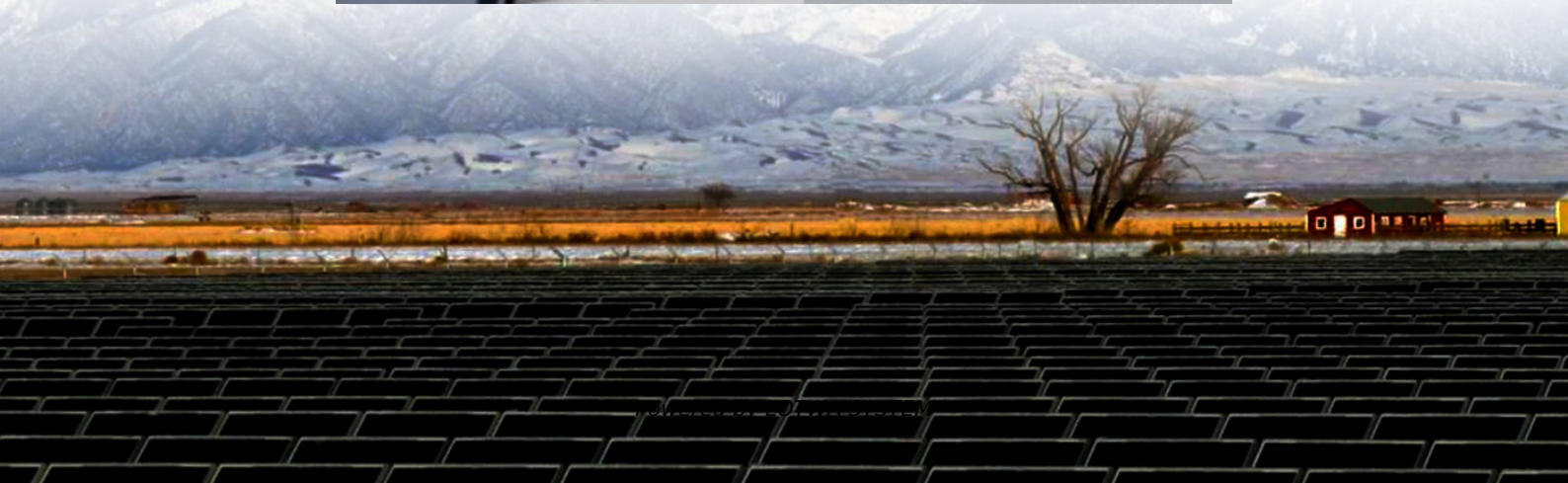


Energy storage devices for large electricity users in Thimphu





Overview

Currently, the energy grid is changing to fit the increasing energy demands but also to support the rapid penetration of renewable energy sources. As a result, energy storage devices emerge to add buffer cap.

Which types of energy storage devices are suitable for high power applications?

From the electrical storage categories, capacitors, supercapacitors, and superconductive magnetic energy storage devices are identified as appropriate for high power applications. Besides, thermal energy storage is identified as suitable in seasonal and bulk energy application areas.

What are the different types of energy storage devices?

Capacitor, superconducting magnetic energy storage (SMES), supercapacitor energy storage (SCES) are categorized as electric ESDs. On the other hand, sensible thermal storage (STES), latent phase-change material (PCM), thermochemical storage (TCS) are categorized under thermal storage devices.

What is electric thermal energy storage (ETEs)?

A new technology called Electric Thermal Energy Storage (ETES) is recently presented which is environmentally friendly and scalable to GWh energy ranges. ETES is planned to be used for grid stability and complement renewable power generation and is commissioned in Hamburg-Altenwerder, Germany in 2019 by Siemens Gamesa Renewable Energy (SGRE) .

Which energy storage technology is best for large-scale PV projects?

So far, for projects related to large-scale PVs integration, the Li-ion technology is the most popular solution utilized for energy storage, with a maximum installed energy storage rating at 100 MWh, used for capacity firming and time-shift [101, 104].



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