

SolarInvert Energy Solutions

Office Building Energy Storage Project



Overview

An inter-office energy storage project in collaboration with the Department of Energy's Vehicle Technologies Office, Building Technologies Office, and Solar Energy Technologies Office to provide foundational science enabling cost-effective pathways for optimized design and operation of hybrid thermal and electrochemical energy storage systems. What is inter-office energy storage?

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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.

Why do buildings need energy storage systems?

Energy storage systems enable buildings to manage their energy consumption more dynamically, supporting grid stability and preventing blackouts. Additionally, energy storage enhances building resilience by providing a backup power source during outages, ensuring critical operations continue uninterrupted.

What is energy storage?

Energy storage is a cornerstone of the sustainable energy future we envision. By integrating advanced storage solutions into buildings, we can enhance energy efficiency, increase the use of renewable energy, and create resilient energy systems.

Where are the energy storage projects being built?

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.

Why is energy storage important?

The capability to store energy allows building operators increased demand flexibility, an essential component of grid-integrated efficient buildings. When you can store energy, you can control the level and timing of when you use energy or return it to the grid.

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Thermal Energy Storage , Buildings , NREL

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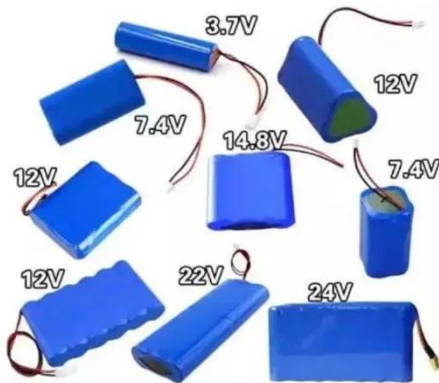
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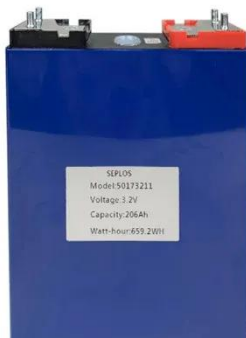
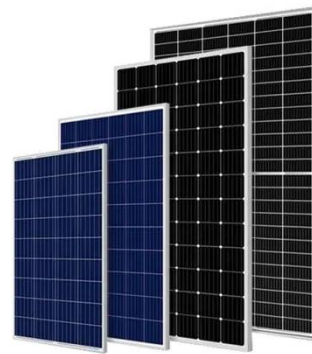
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Thermal Energy Storage

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In collaboration with Heidelberg's


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municipal utility, sp.ICE has developed an energy storage system that can store more than 13 megawatts of cooling energy centrally and deliver it to

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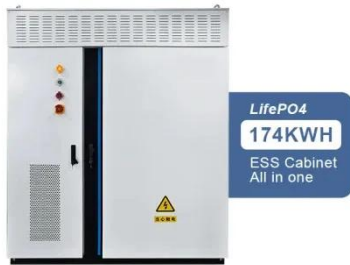


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