

# **Customized Grid-Connected Energy Storage Containers in the United States**





## Overview

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What is energy storage container?

SCU uses standard battery modules, PCS modules, BMS, EMS, and other systems to form standard containers to build large-scale grid-side energy storage projects.

Which energy storage technologies are used on the grid?

Several storage technologies are in use on the U.S. grid, including pumped hydroelectric storage, batteries, compressed air, and flywheels (see figure). Pumped hydroelectric and compressed air energy storage can be used to store excess energy for applications requiring 10 or more hours of storage.

How to implement a containerized battery energy storage system?

The first step in implementing a containerized battery energy storage system is selecting a suitable location. Ideal sites should be close to energy consumption points or renewable energy generation sources (like solar farms or wind turbines).

How much energy is stored on the grid?

28,000 MW of storage capacity—on a net summer capacity basis—installed on the U.S. electricity grid.<sup>34</sup> Pumped hydroelectric storage accounted for over 80 percent of this capacity, and lithium-ion batteries accounted for nearly 17 percent. Other technologies represent approximately 1 percent of total grid energy storage capacity.



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Grid The cover image displays images of a gas-powered turbine for electricity generation, and pumped hydroelectric, flywheel, and battery energy storage technologies.

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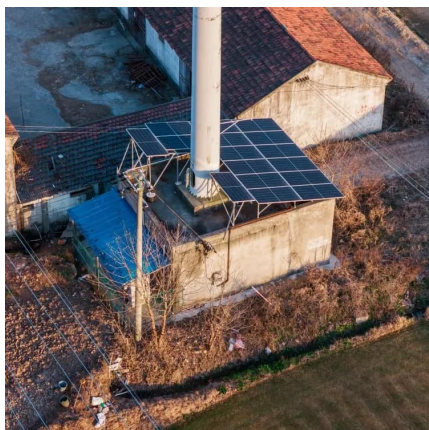
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