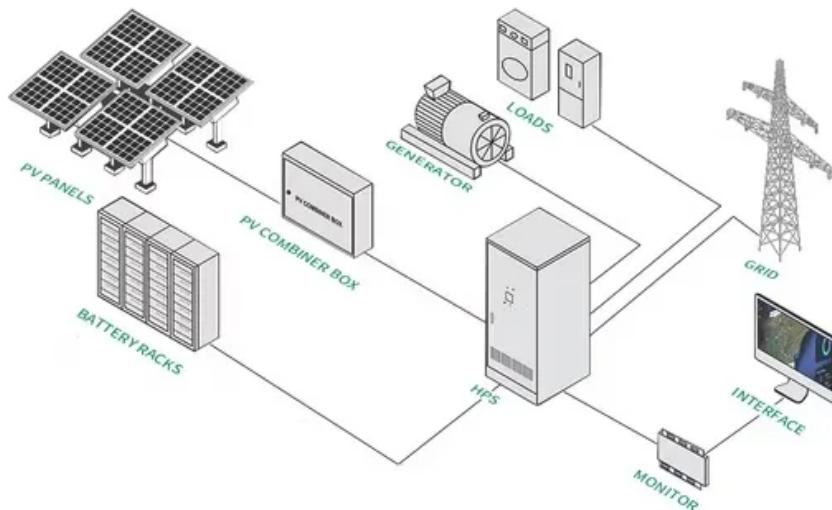


# What are the smart energy storage systems



## Overview

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Why do smart energy systems need energy storage facilities?

Promoting renewable energy sources and their integration to the grid is one of the prime motives of smart energy systems. Key renewable energy sources compulsorily require energy storage facility due to their intermittent nature and uncertainty, and energy storage is a costly affair as of now.

What is a smart energy system?

A smart energy system (SES) is a system that promotes the transformation of the distribution grid towards more sustainable operation and planning strategies. It imposes a set of considerable technological and political challenges.

What is the role of battery storage in smart energy system?

Despite of the highest cost, battery storage is the second in the order, and are expected to play a crucial role in smart energy system. Therefore, largest growth across the world is witnessed in battery storage, and Li-ion batteries lead this growth with approximately 86% share in electricity storage using batteries.

What are the different types of energy storage systems?

The text mentions batteries and thermal energy storage as types of Energy Storage Systems (ESS). It also mentions a hybrid system as another type. Most of these ESS are dependent on lithium, copper, and cobalt. They ensure a continuous flow of energy in emergency applications.

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