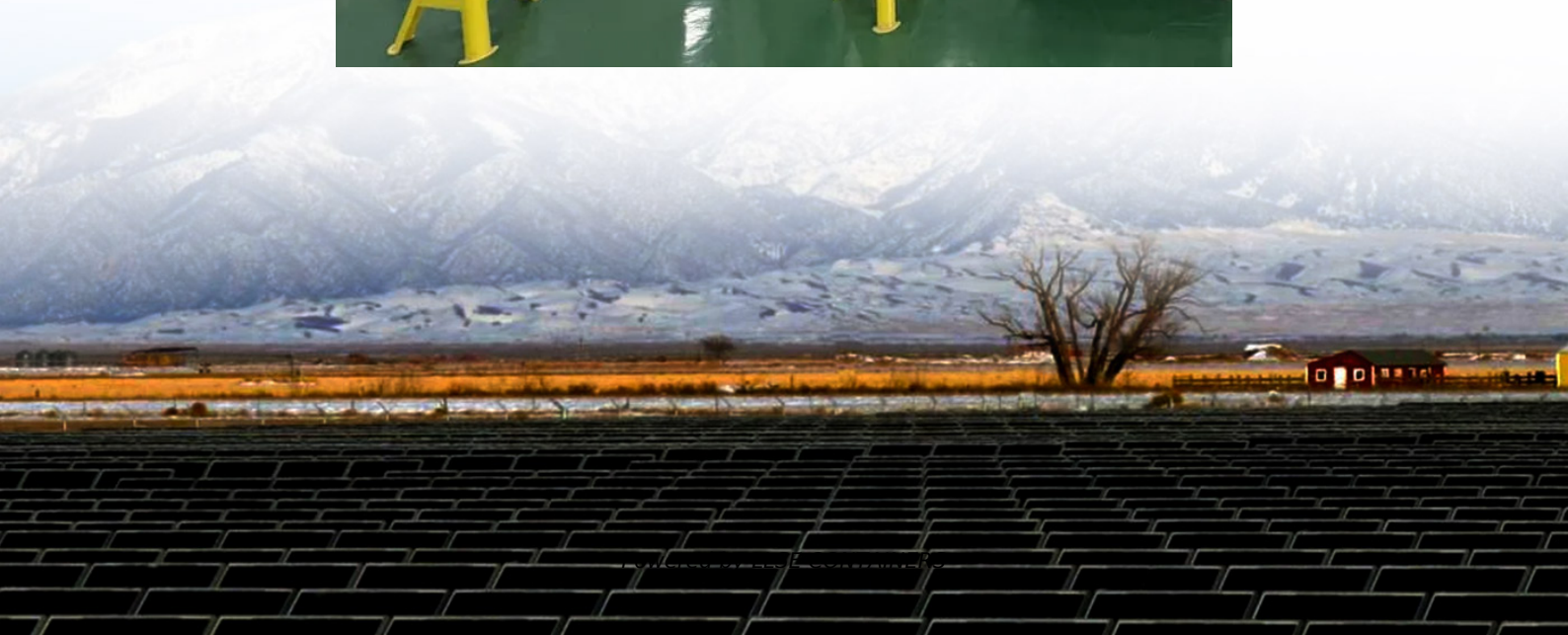


# **Maximum energy storage of energy storage equipment**





## Overview

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What is a higher energy storage capacity system?

This higher energy storage capacity system is well suited to multihour applications, for example, the 20.5 MWh with a 5.1 MW power capacity is used in order to deliver a 4 h peak shaving energy storage application.

What are the possible values of energy storage capacity and wind power capacity?

As a result, the possible values of energy storage capacity can be:  $E = 0, \Delta E, 2\Delta E, 3\Delta E, \dots, m\Delta E$ ; similarly, the possible values of wind power capacity can be:  $P_{wn} = 0, \Delta P, 2\Delta P, 3\Delta P, \dots, n\Delta P$ .  $m$  and  $n$  limit the maximum value of energy storage capacity and wind power capacity, respectively.

What are energy storage systems?

Energy-storage systems (ESS) address these challenges by providing rapid-response capabilities for frequency and voltage regulation, load leveling, peak-shaving, and emergency support. These functions significantly improve a system's ability to withstand disturbances and recover from faults.

What types of energy storage are included?

Other storage includes compressed air energy storage, flywheel and thermal storage. Hydrogen electrolyzers are not included. Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.



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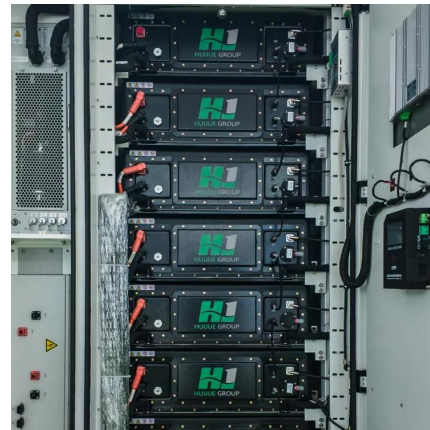


### SECTION 2: ENERGY STORAGE FUNDAMENTALS

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