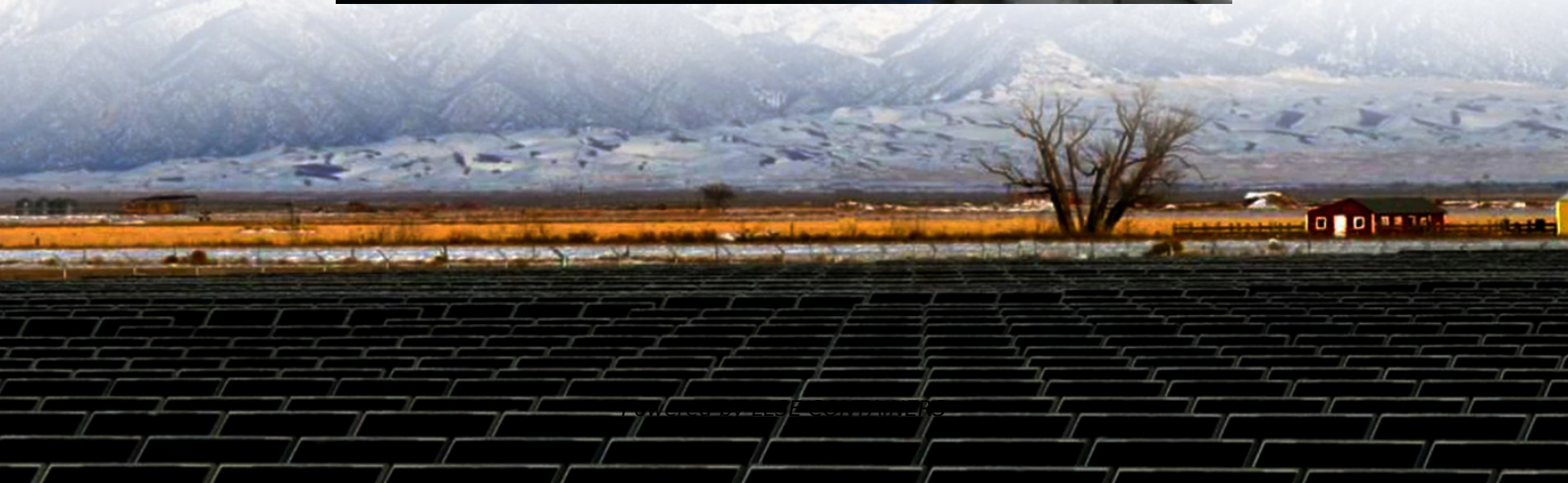


Cost-effectiveness analysis of a 10MWh mobile energy storage container





Overview

What is a 10 MWh storage capacity?

A 10 MWh storage capacity is analysed for all systems. The levelised cost of storage (LCOS) method has been used to evaluate the cost of stored electrical energy. The LCOS of the LEM-GESS was compared to that of the flywheel, lead-acid battery, lithium-ion battery and vanadium-redox flow battery.

Which energy storage technologies are included in the 2020 cost and performance assessment?

The 2020 Cost and Performance Assessment provided installed costs for six energy storage technologies: lithium-ion (Li-ion) batteries, lead-acid batteries, vanadium redox flow batteries, pumped storage hydro, compressed-air energy storage, and hydrogen energy storage.

Are Lem-Gess and existing energy storage systems used in primary response?

This paper presents an economic analysis of the LEM-GESS and existing energy storage systems used in primary response. A 10 MWh storage capacity is analysed for all systems. The levelised cost of storage (LCOS) method has been used to evaluate the cost of stored electrical energy.

Can a linear electric machine-based gravity energy storage system be used in primary response?

Amongst others, a novel linear electric machine-based gravity energy storage system (LEM-GESS) has recently been proposed. This paper presents an economic analysis of the LEM-GESS and existing energy storage systems used in primary response. A 10 MWh storage capacity is analysed for all systems.



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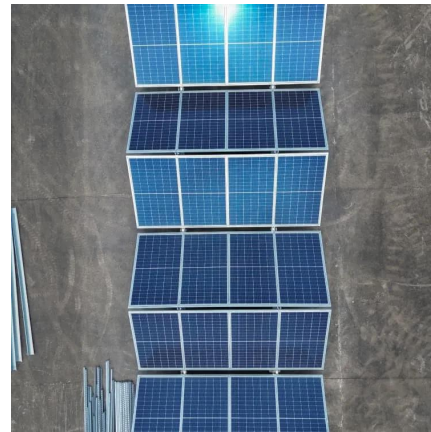


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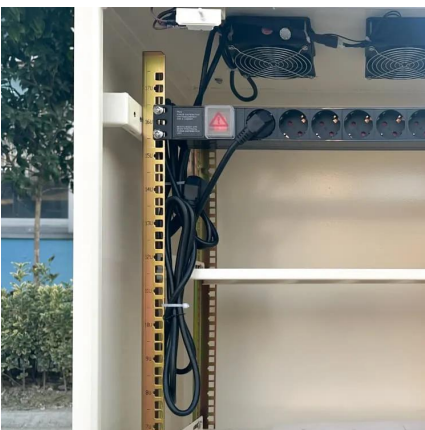
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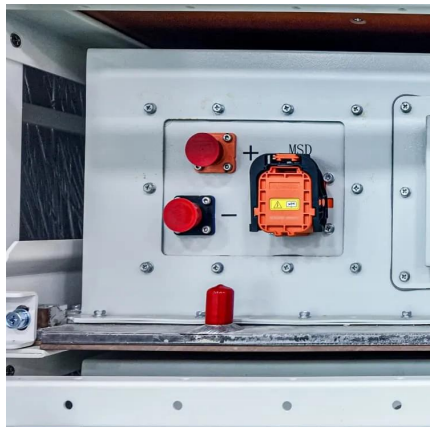


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