Ess technology battery

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ESS technology is field-tested and assessed by Munich Re, who ...

In today"s battery energy storage landscape, lithium-ion runs the show, making up 99% of new energy storage capacity over the last few years. But that is not to say other contenders don"t have a leg up on lithium when it comes to certain safety and performance metrics.

Here we take a look at advantages, disadvantages, and nuances of several newer energy storage technologies vying to get a foothold in the market. For the purposes of this post, the scope of the comparison will be limited to grid-level performance and safety. Let"s dive in.

Lithium-ion batteries are commonplace for a couple of reasons. Lithium-ion is a widely adopted, commercially mature technology, used since the 1990"s in consumer electronics and for the past decade in electric vehicles. They work through the well-known, highly efficient intercalation mechanism in which the working ion shuttles between the cathode and anode during charge and discharge. They are also energy dense - up to 700 Wh/L in today"s versions - meaning they can pack more energy per unit of weight or volume than other currently available technologies.

A relatively high degradation rate (depending on depth of discharge) and limited service life are other considerations that affect grid-level performance. Lithium-ion batteries use a graphite anode that is prone to lithium plating as the battery charges, especially in low temperatures or other thermal transients that compromise the structural integrity of materials and systems.

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