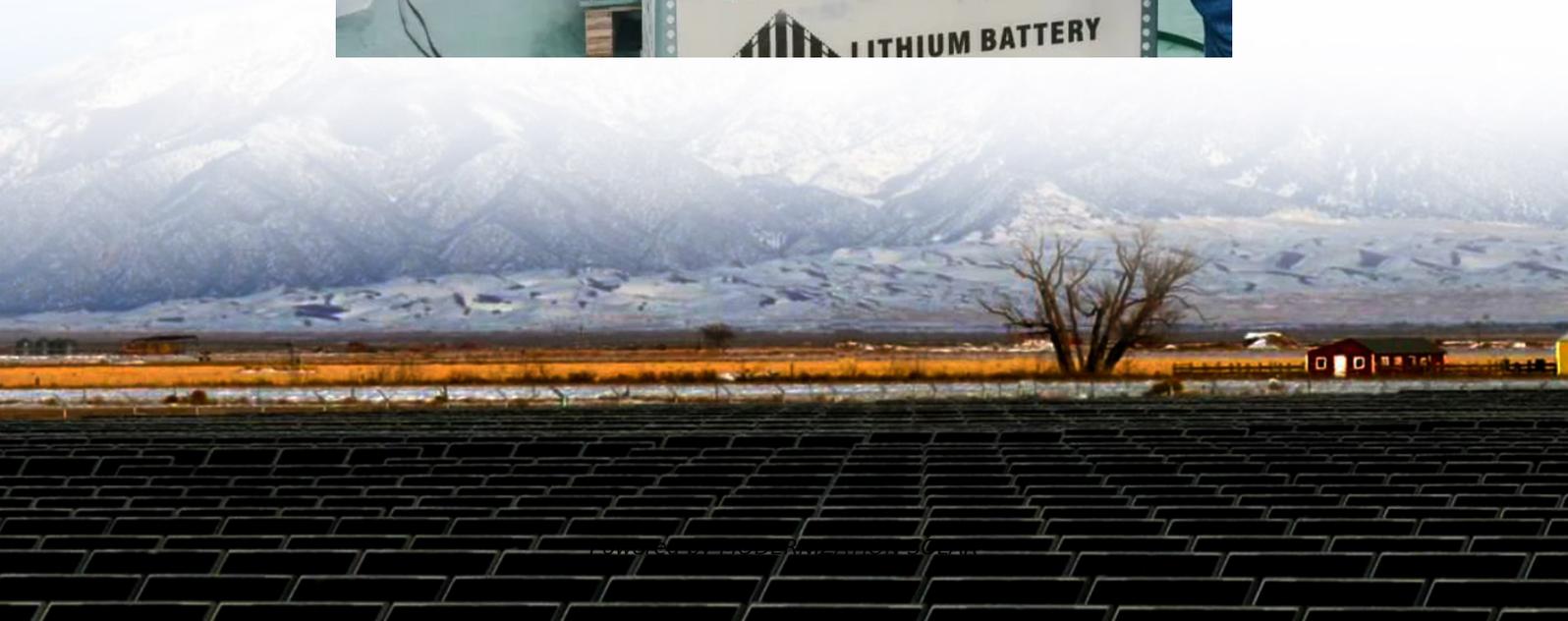


# Energy Storage Container Long-Term Product Review





## Overview

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What is long duration energy storage (LDEs)?

Long Duration Energy Storage (LDES) enables extended storage of power and helps stabilize intermittent power supply when integrated with renewable energy. Technologies such as compressed air energy and thermal energy storage are being developed within the LDES field, offering low-cost solutions with substantial storage capacity.

How do you compare long-duration energy storage technologies (LDEs)?

Review commercially emerging long-duration energy storage technologies (LDES). Compare equivalent efficiency including idle losses for long duration storage. Compare land footprint that is critical to market entry and project deployment. Compare capital cost-duration curve.

What are long-duration energy storage technologies?

In this paper, we loosely define long-duration energy storage technologies as ones that at minimum can provide inter-day applications. Long-duration energy storage projects usually have large energy ratings, targeting different markets compared with many short duration energy storage projects.

What is long-duration energy-storage (LDEs)?

Long-duration energy-storage (LDES) technologies, with long-cycle and large-capacity characteristics, offer a critical solution to mitigate the fluctuations caused by new energy generation over a long period. These systems enable reliable power supply across seasonal variations and extreme weather conditions.



## Energy Storage Container Long-Term Product Review



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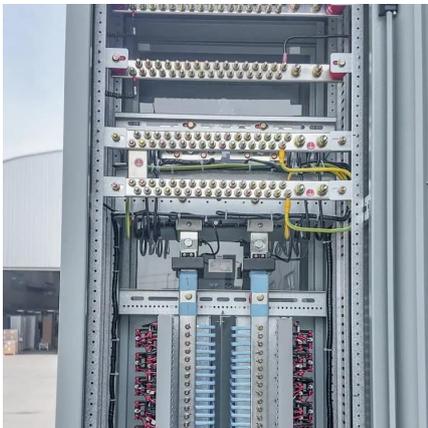
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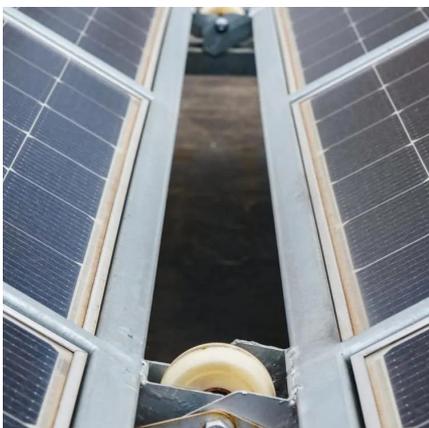


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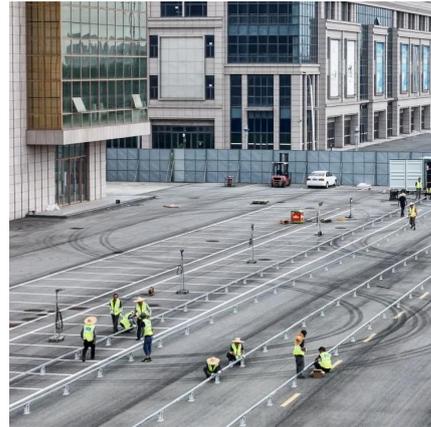
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