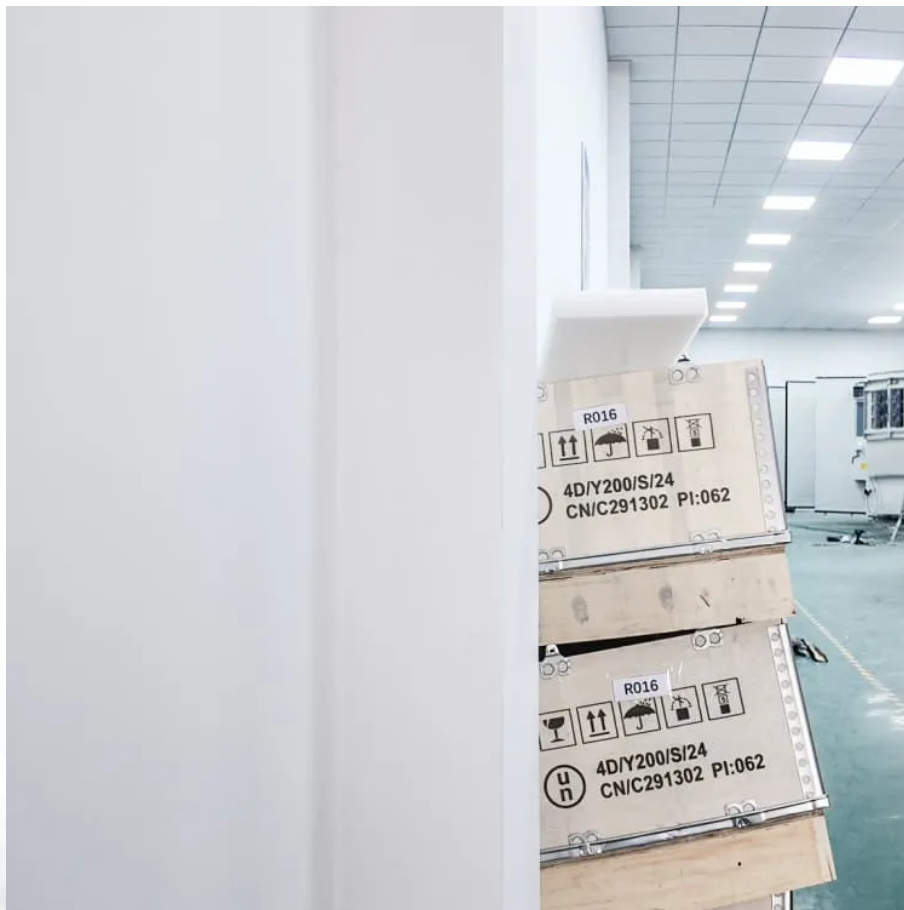


There are several ways to replenish energy storage batteries





Overview

How can battery storage help balancing supply changes?

The ever-increasing demand for electricity can be met while balancing supply changes with the use of robust energy storage devices. Battery storage can help with frequency stability and control for short-term needs, and they can help with energy management or reserves for long-term needs.

Why do we need a battery energy-storage technology (best)?

BESTs are increasingly deployed, so critical challenges with respect to safety, cost, lifetime, end-of-life management and temperature adaptability need to be addressed. The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs).

How can lithium ions be restored to a battery pack?

Lithium ions were restored to a spent battery pack by injecting an electrolyte solution. The researchers used an artificial intelligence model trained on the rules of chemistry.

Are battery energy-storage technologies necessary for grid-scale energy storage?

The rise in renewable energy utilization is increasing demand for battery energy-storage technologies (BESTs). BESTs based on lithium-ion batteries are being developed and deployed. However, this technology alone does not meet all the requirements for grid-scale energy storage.



There are several ways to replenish energy storage batteries

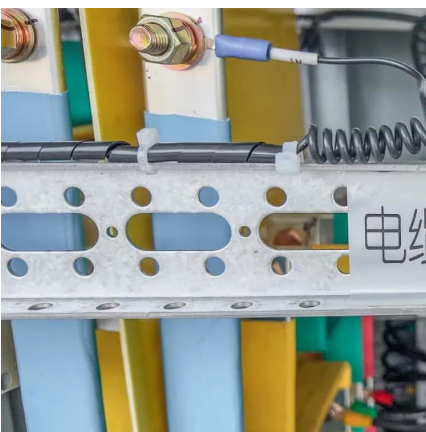


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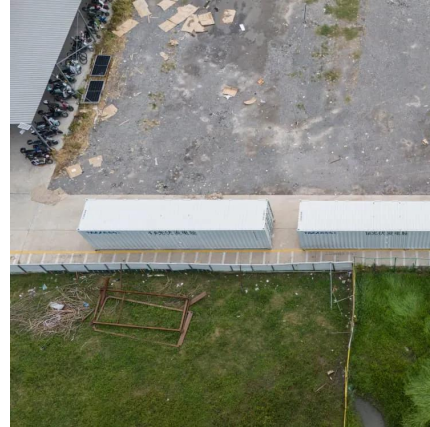
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modern energy storage, driving advancements in consumer electronics, electric vehicles (EVs), and grid energy storage. This review explores ...

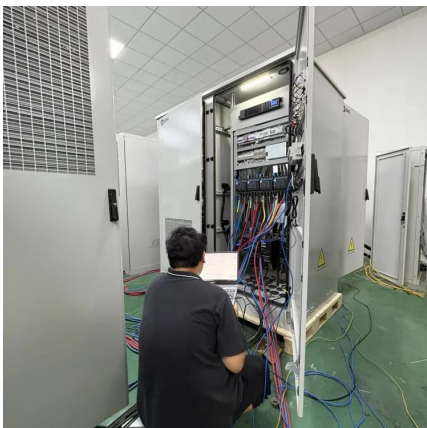


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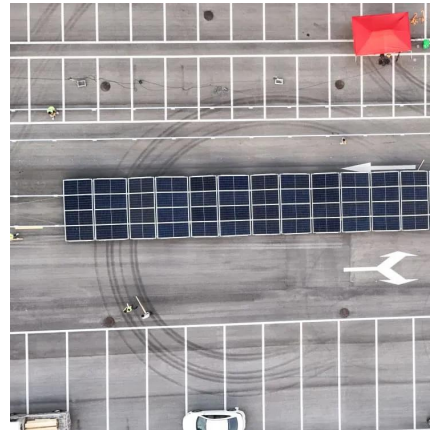
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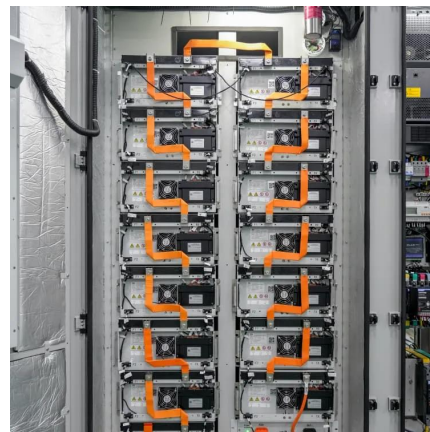


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Conclusion In conclusion, there are several advantages to integrating battery storage with EV charging infrastructure. Battery storage systems offer a ...

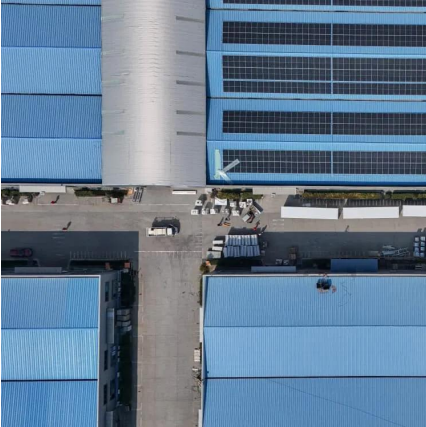
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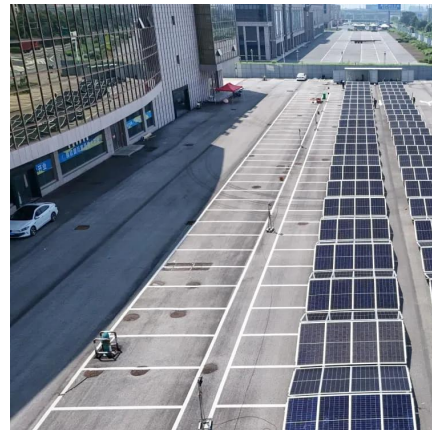
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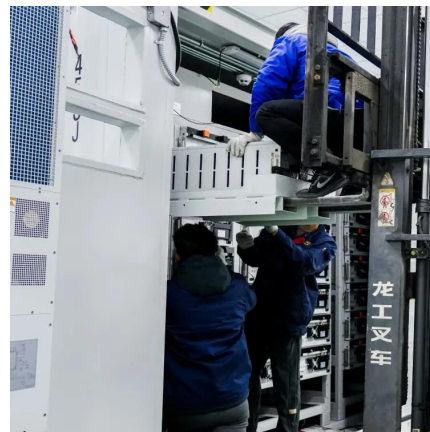


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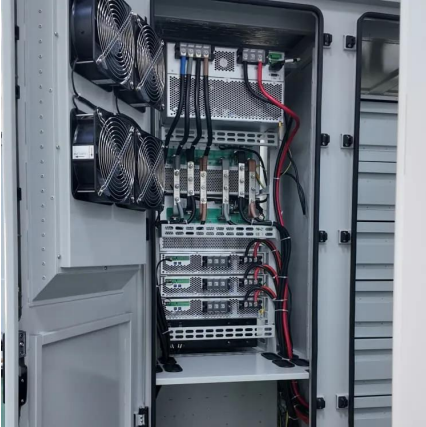
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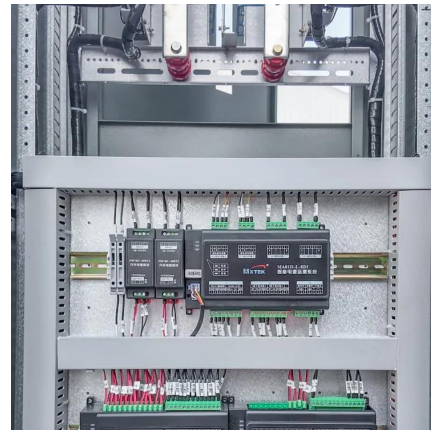
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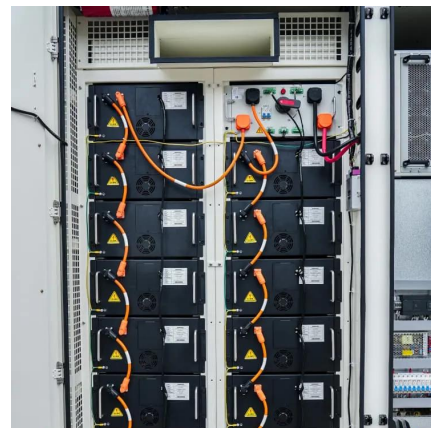


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