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Title: Solar container lithium battery hybrid energy storage

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Are lithium-ion batteries a viable energy storage solution for renewable microgrids?

Lithium-ion batteries (LIBs) and hydrogen (H<sub>2</sub>) are promising technologies for short- and long-duration energy storage, respectively. A hybrid LIB-H<sub>2</sub> energy storage system could thus offer a more cost-effective and reliable solution to balancing demand in renewable microgrids.

What are battery energy storage systems?

Battery energy-storage systems typically include batteries, battery-management systems, power-conversion systems and energy-management systems<sup>21</sup> (Fig. 2b).

How much does a hybrid energy storage system cost?

Compared to Just LIB or Just H<sub>2</sub>, the hybrid system provided significant cost reductions (see Fig. 5). Relying on only LIB for energy storage (\$74.8 million) was more expensive than relying on only H<sub>2</sub> (\$59.2 million), and significantly more expensive than the hybrid case (\$43.3 million).

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.

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