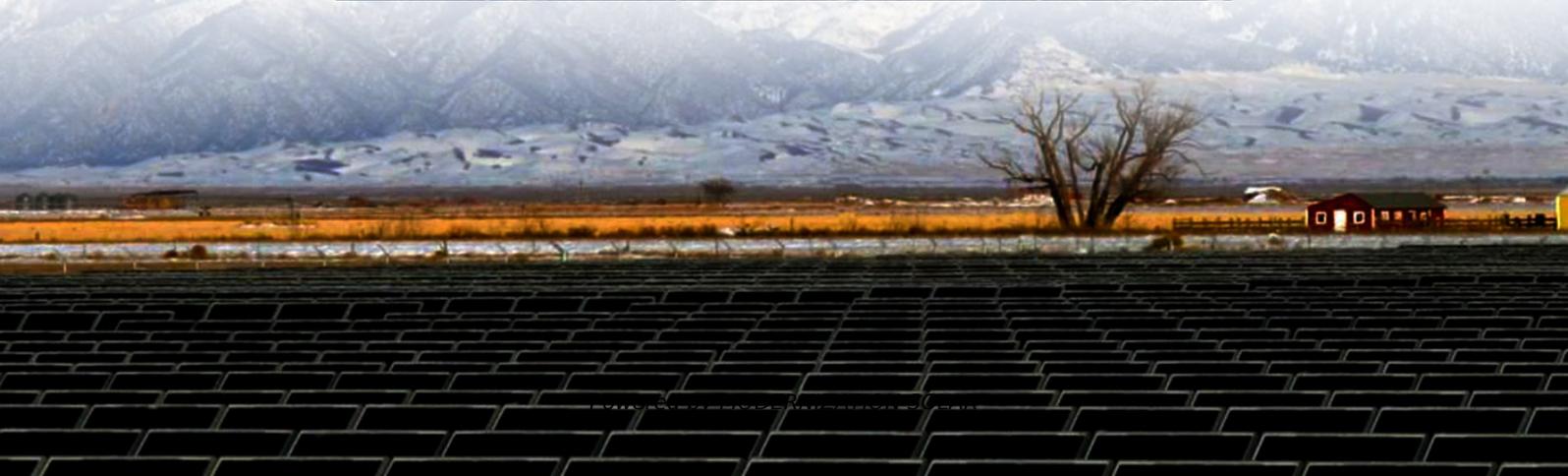
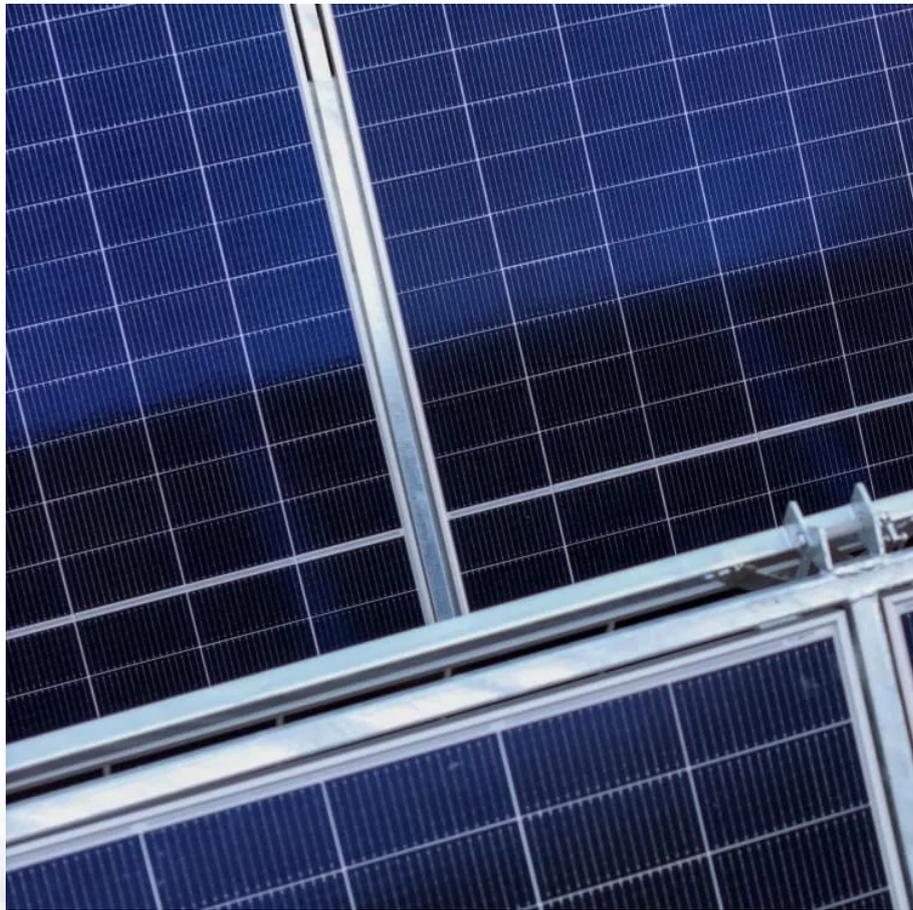


Battery design for solar container communication station





Overview

Are solar batteries the future of energy storage?

Solar batteries present an emerging class of devices which enable simultaneous energy conversion and energy storage in one single device. This high level of integration enables new energy storage concepts ranging from short-term solar energy buffers to light-enhanced batteries, thus opening up exciting vistas for decentralized energy storage.

How can light energy conversion and energy storage be implemented?

(a) Light energy conversion and energy storage can be implemented in the same device via three distinct electrodes (photoactive electrode, battery cathode, and anode). Multiple charge transfer mechanisms are required within the cell (e.g., redox shuttles) and externally via a wire to transfer the photogenerated charges.

Can solar batteries be used as a buffer system?

The concepts presented herein provide design principles to develop solar batteries with specific performance characteristics and thus target applications, especially as a “buffer” system for intermittent renewable energy supply as well as decentralized and cost-effective energy storage. Open access funded by Max Planck Society.

What is on-site battery storage?

On-site storage has seen a significant boost in research interest, since fewer steps are required to transfer energy to the storage device. Various levels of integration exist, such as on-site battery storage, in which the solar cell DC current can charge batteries directly (DC battery charging efficiency of ca. 100%).



Battery design for solar container communication station



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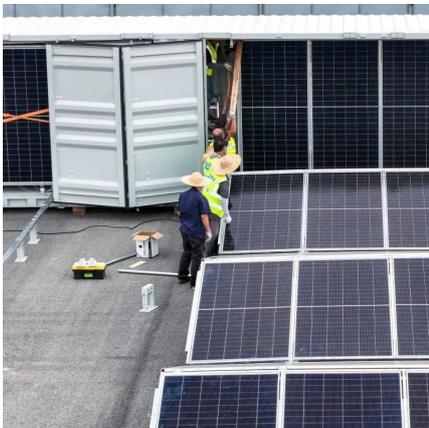
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