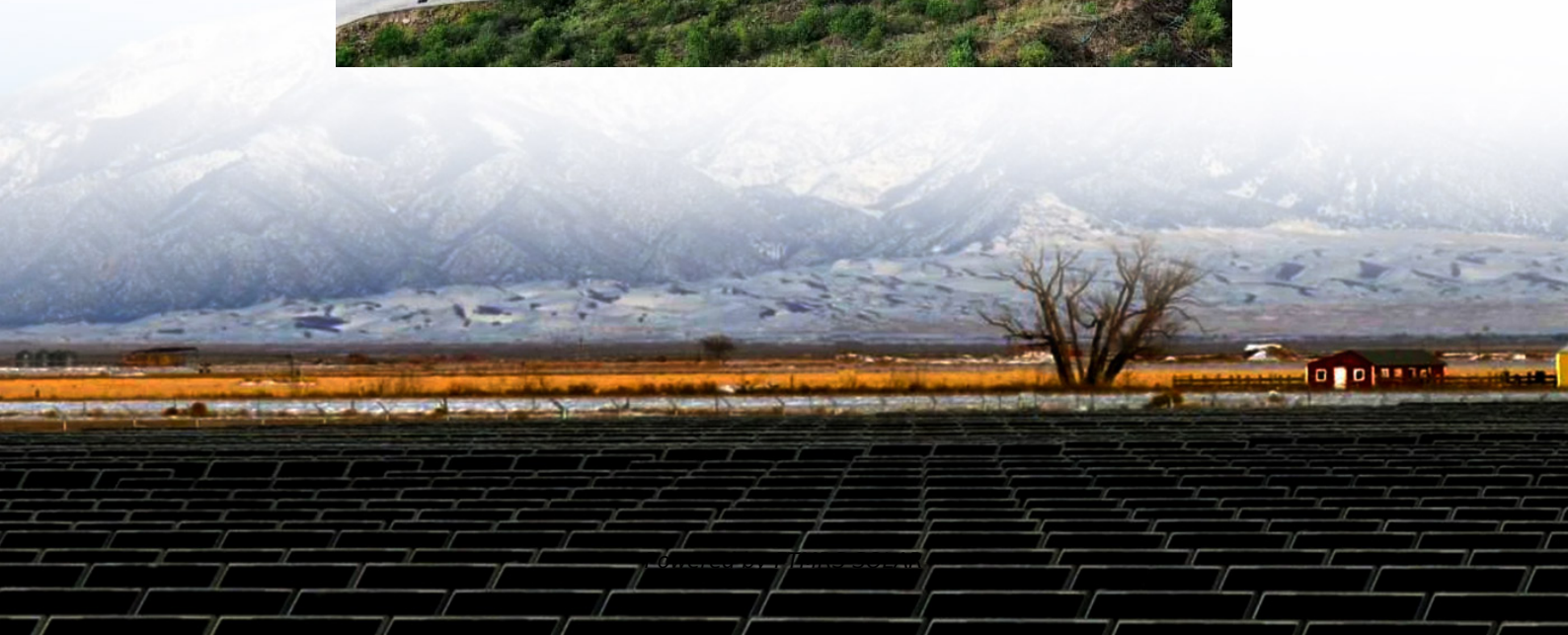


Energy storage power supply overcharge





Overview

When the lithium-ion battery is overcharged, the battery voltage rises rapidly with the increase of polarization, which will cause irreversible changes in the structure of the positive active material and the decomposition of the electrolyte, generating a large amount of gas and releasing a large amount of heat, causing a sharp increase in the temperature and internal pressure of the battery, and there are hidden dangers such as explosion and combustion. Why is energy storage oversupply a problem?

The expansion is driven mainly by local governments and lacks coordination with new energy stations and the power grid. In some regions, a considerable storage oversupply could lead to conflicts in power-dispatch strategies across timescales and jurisdictions, increasing the risk of system instability and large-scale blackouts.

What happens if a lithium phosphate battery is overcharged?

In the context of the growing prevalence of lithium iron phosphate batteries in energy storage, the issue of gas production during overcharge is of utmost importance. Thermal runaway, often initiated by excessive gas generation, can lead to catastrophic battery failures in energy storage power stations.

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