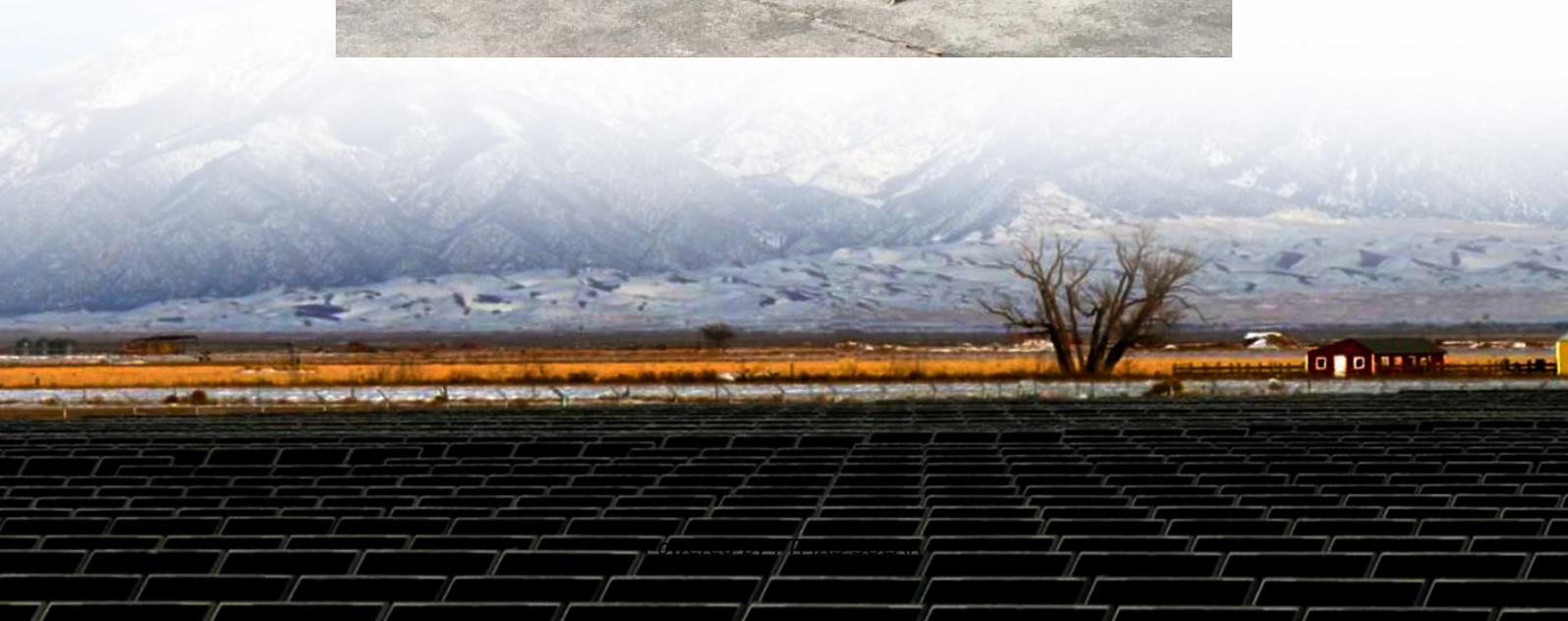


# Energy Storage Solution Peak and Valley





## Overview

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Can energy storage peak-peak scheduling improve the peak-valley difference?

Tan et al. proposed an energy storage peak-peak scheduling strategy to improve the peak-valley difference . A simulation based on a real power network verified that the proposed strategy could effectively reduce the load difference between the valley and peak.

Which energy storage technologies reduce peak-to-Valley difference after peak-shaving and valley-filling?

The model aims to minimize the load peak-to-valley difference after peak-shaving and valley-filling. We consider six existing mainstream energy storage technologies: pumped hydro storage (PHS), compressed air energy storage (CAES), super-capacitors (SC), lithium-ion batteries, lead-acid batteries, and vanadium redox flow batteries (VRB).

How can energy storage reduce load peak-to-Valley difference?

Therefore, minimizing the load peak-to-valley difference after energy storage, peak-shaving, and valley-filling can utilize the role of energy storage in load smoothing and obtain an optimal configuration under a high-quality power supply that is in line with real-world scenarios.

What is the peak-to-Valley difference after optimal energy storage?

The load peak-to-valley difference after optimal energy storage is between 5.3 billion kW and 10.4 billion kW. A significant contradiction exists between the two goals of minimum cost and minimum load peak-to-valley difference. In other words, one objective cannot be improved without compromising another.



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