

# **Construction of wind and solar energy storage power stations**





## Overview

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How do pumped storage power stations work?

As the most mature and cost-effective energy storage technology available today, pumped storage power stations utilize excess WPP to pump water from a lower reservoir (LR) to an upper reservoir (UR).

Can pumped storage power stations be built among Cascade reservoirs?

The construction of pumped storage power stations among cascade reservoirs is a feasible way to expand the flexible resources of the multi-energy complementary clean energy base. However, this way makes the hydraulic and electrical connections of the upper and lower reservoirs more complicated, which brings more uncertainty to the power generation.

How pumped storage power stations can improve Ur and LR?

The construction of pumped storage power stations among cascade reservoirs can improve the flexible adjustment ability of the clean energy base, which also changes the water transfer and electrical connection of UR and LR at the same time.

How do pumped storage power stations recover operating costs?

Pumped storage power stations recover the operating costs of pump and generation through the electricity energy tariff. The capacity tariff reflects the value of the auxiliary services provided by the pumped storage power station, such as frequency regulation, voltage regulation, system standby and black start, etc.



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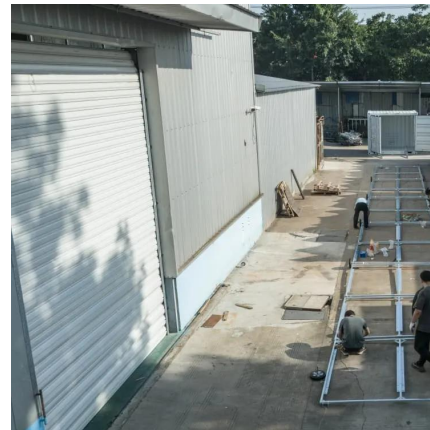


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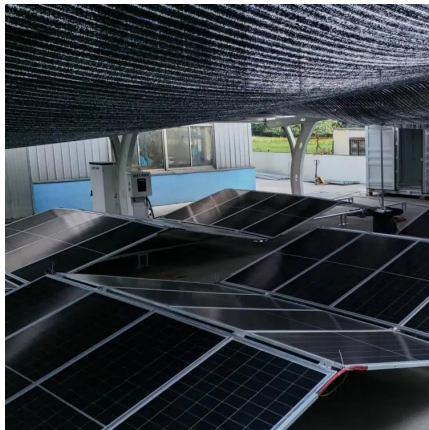
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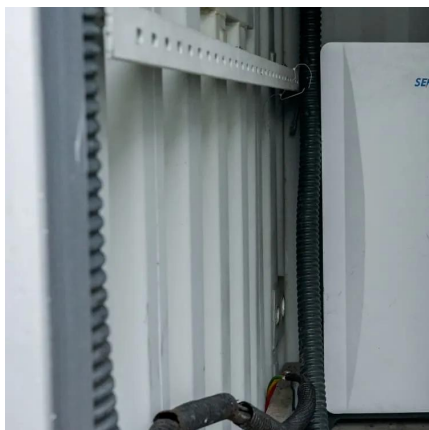


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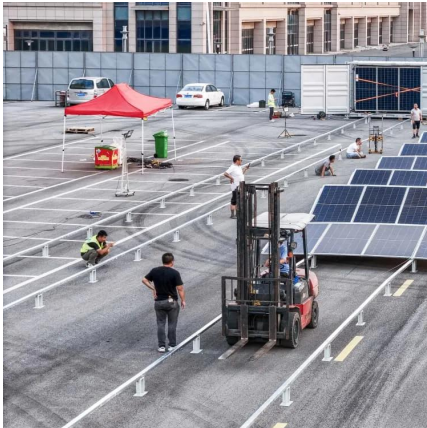
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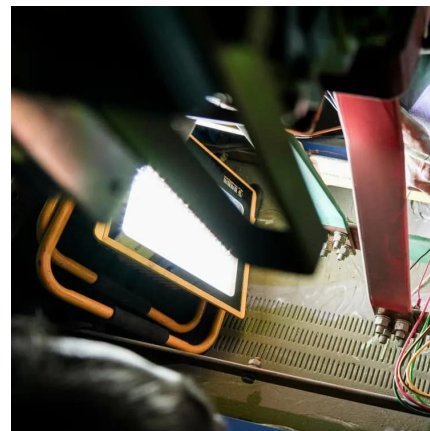


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