

Backfilling plan for the foundation of the seaside energy storage power station





Overview

It is very important to achieve an excavation-filling balance and conduct reasonable earthwork allocation in the construction of pumped storage power stations to improve their technological and economic.

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.

Can pumped storage power stations support a high-quality power supply?

Hence, to support the high-quality power supply, this research explores the complementary characteristics of the clean energy base building different types of pumped storage power stations, and recognizes the efficient operation intervals of the giant cascade reservoir.

Is a new gravitational energy storage system based on wind turbine jacket structures?

This article proposes a novel offshore gravitational energy storage technology scheme, based on the foundation of wind turbine jacket structures, integrating a new gravitational energy storage system to form an integrated "wind power + storage" structure, as illustrated in Figure 1.



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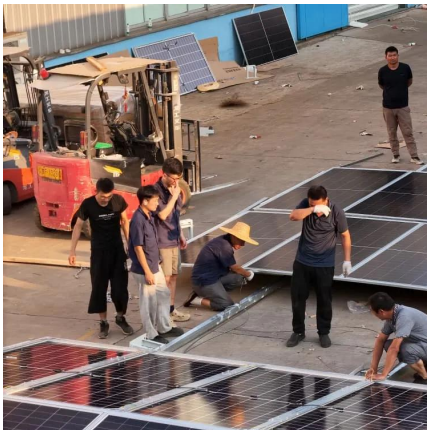
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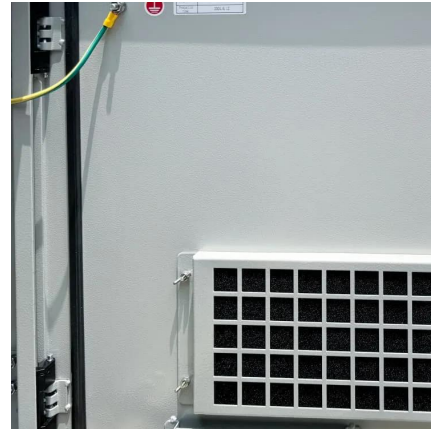
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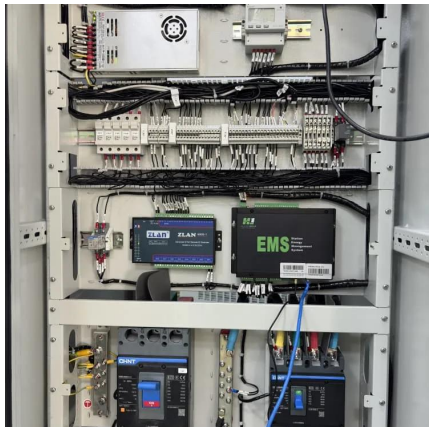
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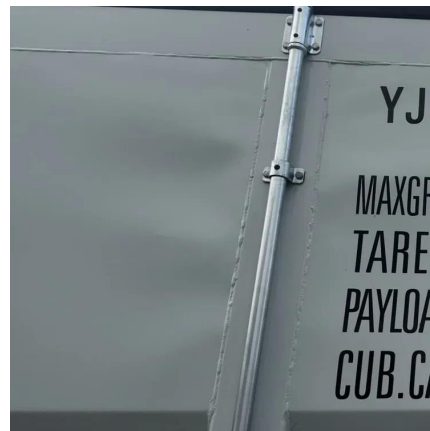
The construction of Pumped storage power station entails large investment, strict requirements on environment, society, economy and safety, thus its site selection is highly influenced by ...

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