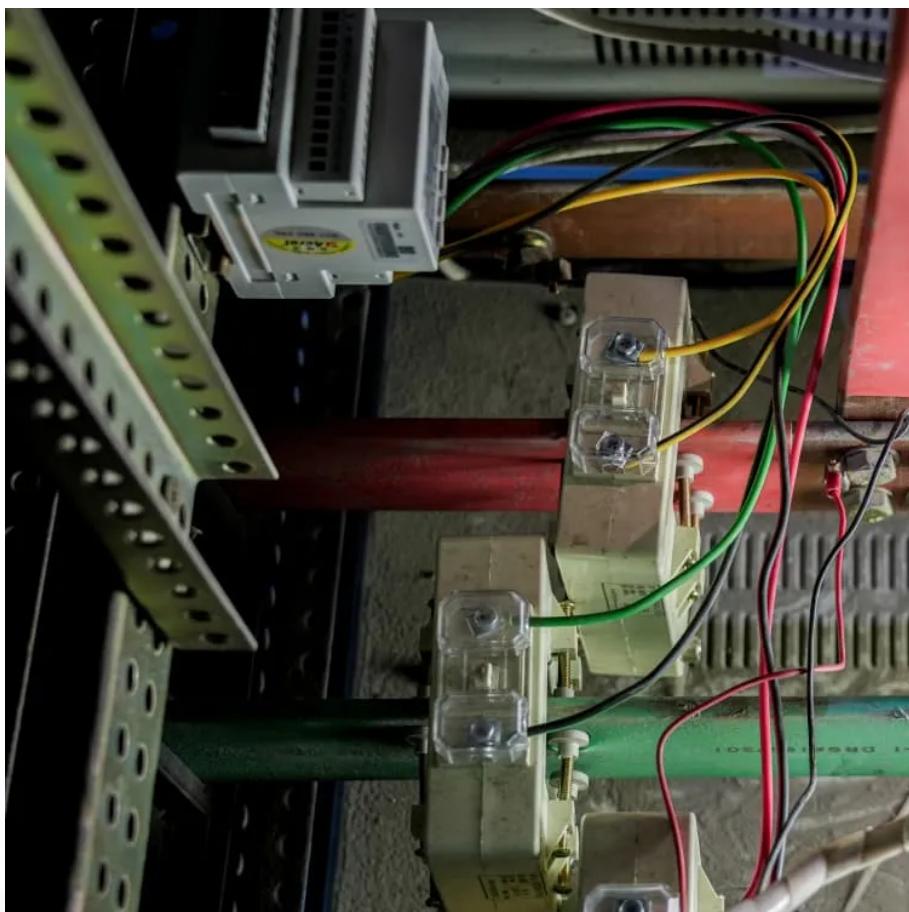




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Lima cascade energy storage power station





Overview

What is a cascade hydropower plant & pump station?

The CESS is an integrated system of cascade hydropower plants and pump stations, whose main function is to consume excess energy from renewables, while satisfying water and energy demands for the public. Essentially, the CESS belongs to a kind of pumped storage power station.

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.



Lima cascade energy storage power station



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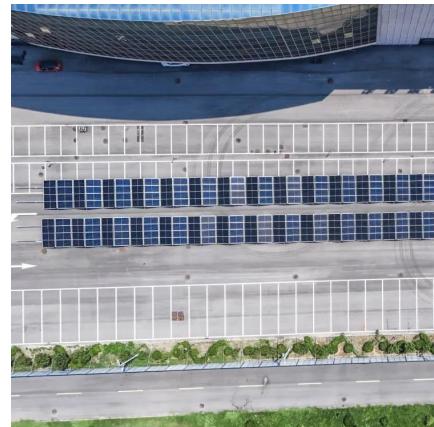


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