

## Kongres Container

# Base station power wind power generation system



## Overview

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Which power source is used in hwphs?

In the HWPHS, the power sources include hydropower, photovoltaic and wind power, among them, hydropower is used as the regulating power source. Facing the uncertainty of the power output of WPP, the hydropower station needs to determine its power generation process according to the power output process of WPP.

Why are hydropower and pump stations used as flexible resources?

Among them, hydropower and pump stations are used as flexible resources. Facing the uncertainty of the power output of WPP, the hydropower station needs to determine its power generation process according to the output process of WPP, and the pump station needs to consume excess electricity when the power output of WPP is larger.

How PSPS determine the power generation process based on WPP?

PSPS in the generating power state and hydropower stations are arranged to determine their power generation process according to the output process of WPP. When the power output of wind-PV plants is larger, PSPS in the pumping water state should consume excess WPP.

What are the three hybrid power generation systems?

The three hybrid power generation systems respectively are the hydropower-wind-PV hybrid system (HWPHS), the hydropower-wind-PV hybrid system including pump stations (HWPPHS), and the hydropower-wind-PV hybrid system including reversible hydro units (HWPRPHS).

What are the multi-energy complementary operation models of hydropower-wind-PV hybrid system?

Next, based on different utilization principles of wind power and photovoltaic, the multi-energy complementary operation models of the hydropower-wind-PV

hybrid system, the hydropower-wind-PV hybrid system including pump stations, and the hydropower-wind-PV hybrid system including reversible hydro units are established.

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.

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