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European Solar Energy Storage

14th five-year plan for pumped storage

Overview

The "14th Five-Year Plan for Modern Energy System" released in March 2022 proposes that by 2025, the installed capacity of pumped storage energy will reach more than 62 million kilowatts, and the installed capacity under construction will reach about 60 million kilowatts.

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14th Five-Year Plan: New Energy Storage Developmen. This document identifies energy storage as a key element of the decarbonisation of the sector and support energy security. It promotes the high-quality and large-scale development of new energy storage in order to accelerate the construction of.

On June 13, 2022, Ding Yanzhang, Secretary of the Party Committee and Chairman of Power Construction Corporation of China, published a signed article "Developing Pumped Storage to Promote Green Development", stating that the "Double Two Hundred Project" will be implemented during the 14th Five-Year.

China is expected to further step up the development of pumped-storage hydroelectricity during the 14th Five-Year Plan period (2021-25), as part of the nation's broader efforts to deliver on its climate commitment of peaking carbon emissions by 2030 and achieving carbon neutrality by 2060, experts.

The first unit of the Meizhou Pumped Storage Power Station Phase II—the first such project in the Greater Bay Area under the 14th Five-Year Plan—began operation on August 26. It greatly enhances grid stability and clean energy supply, generating 300,000 kWh per hour—enough to power 50,000 homes.

Clean power facilities gain ground on policy support, advantages over other new energy units China is ramping up pumped-storage hydroelectricity (PSH) capacity in an effort to boost new energy development and ensure stable

operations of the grid, according to a recent industry report. An estimated.

State Grid Corp of China has come up with plans for more pumped storage hydropower facilities, and is stepping up efforts to promote the development of power storage in the country to play a bigger role in the nation's goals of peaking carbon emissions by 2030 and achieving carbon neutrality by. Will pumped storage projects be accelerated during the 14th five-year plan?

On April 2, 2022, the National Development and Reform Commission and the Energy Administration jointly issued a notice to accelerate the development and construction of pumped storage projects during the 14th Five-Year Plan period.

How big will pumped storage be by 2025?

In September 2021, the National Energy Administration issued the Medium and Long Term Development Plan for Pumped Storage (2021–2035), proposing that by 2025, the total scale of pumped storage will double from that of the 13th Five-Year Plan, reaching more than 62 gigawatts.

What is the 14th Five-Year Plan period?

The 14th Five-Year Plan period is the implementation of the Medium and Long Term Development Plan for Pumped Storage (2021–2035) , while “approval status” is an important “barometer” of pumped storage development and construction.

What pumped storage power stations ushered in a new peak?

During the “Twelfth Five-Year Plan” and “Thirteenth Five-Year Plan” periods, to adapt to the rapid development of new energy and UHV power grids, pumped storage power stations such as Fengning in Hebei Province and Jixi in Anhui Province ushered in a new peak.

How pumped storage and new energy storage are developing in central China?

The development of pumped storage and new energy storage in Central China shows a trend of coexistence and complementarity, which is mainly due to the great importance of energy structure optimization and power system regulation capacity in the region.

How many pumped storage projects have been approved in China?

From the approval situation: Since the “14th Five-Year Plan” in central China, a total of 25 pumped storage projects have been approved, with an approved installed capacity of 33.496 gigawatts, ranking the most in the geographical region of the country.

14th five-year plan for pumped storage

China Daily:Pumped-storage plants rising on nation's green push

In September, a mid to long-term development plan (2021-35) for PSH was released by the National Energy Administration, which included promoting small and medium-sized projects and strengthening technology innovation.

The 14th Five-Year Plan for pumped storage projects ...

During the "14th Five-Year Plan" period, energy construction will be dominated by clean energy, and the large-scale grid connection of new energy has put forward an urgent need for energy storage technology.

Approval and progress analysis of pumped storage power ...

China has completed 70.90 % of the total capacity target of 210 gigawatts for key implementation projects during the "14th Five-Year Plan". Pumped storage power stations in Central China are typical for their large capacity, large number of approved pumped storage power stations and rapid approval.

Pumped storage: the 14th Five-Year Plan starts at 270 million

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The 14th Five-Year Plan has approved pumped storage capacity

The latest data from the pumped storage industry branch shows that as of August 31, 2022, 23 pumped storage power stations have been approved during the "14th Five-Year Plan", with a total installed capacity of 30.5 million kilowatts and a project investment of more than 200 billion yuan.

Pumped-storage hydropower stabilizes electricity grid

According to a mid- and long-term development plan for pumped-storage hydropower unveiled by the National Energy Administration last year, China aims to have more than 62 million kilowatts of operational pumped-storage hydropower capacities by 2025.

Pumped storage: the 14th Five-Year Plan starts at 270 ...

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GBA's 1st major energy storage project under 14th Five-Year Plan ...

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14th Five-Year Plan: New Energy Storage Development Implementation Plan

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The 14th Five-Year Plan for pumped storage projects can be fully ...

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State Grid ties hydropower to carbon goals

The company will continuously push forward the construction of pumped-storage hydropower stations during the 14th Five-Year Plan period and will see its total scale of pumped storage hydropower stations reaching 50 million kW by 2025.

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