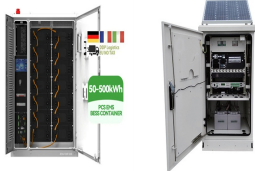
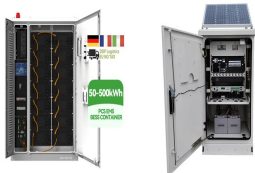


# PUMPED ENERGY STORAGE ASHGABAT

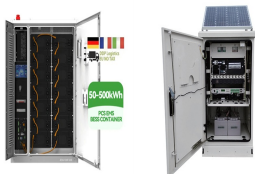
## 14TH FIVE-YEAR PLAN PROJECT



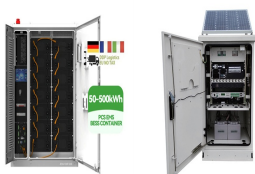
Will pumped storage projects be accelerated during the 14th five-year plan? On April 2, 2022, the National Development and Reform Commission and the Energy Administration jointly issued a notice to accelerate the development and construction of pumped storage projects during the 14th Five-Year Plan period.



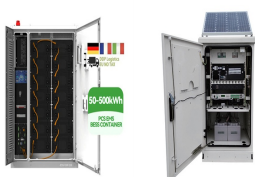
How big will pumped storage be by 2025? In September 2021, the National Energy Administration issued the Medium and Long Term Development Plan for Pumped Storage (2021-2035), proposing that by 2025, the total scale of pumped storage will double from that of the 13th Five-Year Plan, reaching more than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



What 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 many pumped storage projects have been approved in Henan province? Since the 14th Five-Year Plan, six pumped storage projects have been approved in Henan Province, with a total installed capacity of 8.8 gigawatts and a total estimated investment of 57.967 billion yuan, completing 74.5 % of the approved capacity planned in the 14th Five-Year Plan.



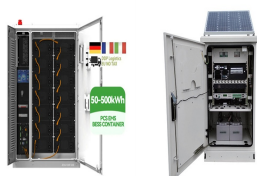
How to promote the construction of pumped storage power stations? To promote the construction of pumped storage power stations, it is of great significance for the construction and optimization of modern power systems. 2. Development trends of pumped storage energy in China To effectively support the construction and development of pumped storage power stations, China has issued a series of supporting policies.

# PUMPED ENERGY STORAGE ASHGABAT

## 14TH FIVE-YEAR PLAN PROJECT



How many pumped storage power stations did China approve? The country approved 110 pumped storage power stations with a total installed capacity of 148.901 gigawatts, which is 2.8 times the capacity approved during the 13th Five-Year Plan period. China has completed 70.90 % of the total capacity target of 210 gigawatts for key implementation projects during the 14th Five-Year Plan.



The upcoming 14th Five Year Plan should consider providing a better policy infrastructure for the nascent energy storage market, especially, a policy framework that would provide a solid commercial case for storage.



The project is a key construction project in the 14th Five-Year Plan of Liaoning Province and a key pumped-storage power station built by the country in the 14th Five-Year Plan. The project construction period is about 72 months.



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 will reach 62 million kilowatts.



This means that China surpassed its target of reaching 30GW of the "new type" energy storage by 2025 two years earlier than planned. The goal had been set by the NEA and China's top economic planner the National Development and Reform Commission.

# PUMPED ENERGY STORAGE ASHGABAT 14TH FIVE-YEAR PLAN PROJECT



CITIC Securities also forecast that development of new types of power storage and pumped-storage hydroelectricity is set for explosive growth during the 14th Five-Year Plan period (2021-25). Experts said developing ???



Since the 14th Five Year Plan period, with the rapid development of new energy in Gansu, the demand for various regulatory power sources in the power system has rapidly increased. Pumped storage, as the most mature ???



In September 2021, the "Medium and Long-Term Development Plan for Pumped Storage (2021-2035)" issued by the National Energy Administration made it clear that by 2025, the total production scale of ???



The 14th Five-Year Plan approved 219 projects. It is understood that pumped storage is an important part of the energy system, and has been included in the list of major investment projects accelerated by the State ???



As we enter the 14th Five-year Plan period, we must consider the needs of energy storage in the broader development of the national economy, increase the strategic position of energy storage in the adjustment of the ???

# PUMPED ENERGY STORAGE ASHGABAT

## 14TH FIVE-YEAR PLAN PROJECT



Although other energy storage technologies, such as electrochemical energy storage, lead???acid batteries, sodium???sulfur (NaS) batteries, lithium-ion (Li-ion) batteries, and compressed air energy storage ???



According to the plan, during the "14th Five-Year Plan" period, the province will strive to start 3 to 5 new pumped storage power station projects; it is estimated that by 2035, the province's total installed capacity of pumped ???



On February 28, the "14th Five-Year Plan for Energy Development of Qinghai" was issued which pointed out the key tasks of energy development, including actively developing applications of ???



China | Policy | 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 ???



China's National Energy Administration (NEA) in September issued a middle and long-term development plan for the country's pumped storage hydropower sector covering the period from 2021 to 2035, eyeing an ???