

# INTRODUCTION TO DUSHANBE ENERGY STORAGE POWER STATION



What is Dushanbe 2 power station? Dushanbe-2 power station is the only coal-fired plant in Tajikistan and one of the two thermal power plants, the other one being the gas-fired Dushanbe-1 power station. The construction of the first stage of the Dushanbe-2 CHPP (2 x 50 MW) began in November 2012 after signing of an interstate agreement between Tajikistan and China.



Is Dushanbe 2 a coal-fired power plant in Tajikistan? Project-level coal details Dushanbe-2 power station is the only coal-fired plant in Tajikistan and one of the two thermal power plants, the other one being the gas-fired Dushanbe-1 power station.



What is pumped storage power station (PSPS)? The pumped storage power station (PSPS) is a special power source that has flexible operation modes and multiple functions. With the rapid economic development in China, the energy demand and the peak-valley load difference of the power grid are continuing to increase.



Does Gangnan hydropower station have load regulation? For the application of the pumped storage unit, Gangnan hydropower station owns the ability of load regulation. Erenow, it can only generate seasonal power. Although the scale of this PSPS is small, it is designed reasonably and utilized appropriately. Its construction initiates the history of the PSPS development in China.



Who built the Dushanbe 2 CHPP? The second stage of the Dushanbe-2 CHPP was launched in December 2016. The main contractor of the construction was the Chinese company T?ubian Apparatus Stoc Co.(TBEA), which received the rights to a gold mine in the north of the Central Asian country to offset the cost of the investment.

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Should Chinese power systems develop pumped storage systems? The result shows the urgency of developing the PSPS in Chinese power systems that have given priority to thermal power, and the energy resources need the wide-range optimal allocation within the system. The development cycle of the pumped storage is long, and at least 8-10 years are needed from the planning to the completion.



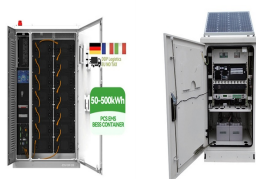
The installed power capacity of China arrived 2735 GW (GW) by the end of June in 2023 (Fig. 1 (a)), which relied upon the rapid development of renewable energy resources and ???



On May 8 th, 2020, the Fujian Energy Regulatory Office issued the first power business license (power generation type) for the independent storage power station of Jinjiang Mintou Power Storage Technology Co., Ltd. of Fujian ???



Due to the dual characteristics of source and load, the energy storage is often used as a flexible and controllable resource, which is widely used in power system frequency ???



These include dust removal equipment for units 1 and 2 of Pakistan's 2x660MW newly-built SaChivard Power Station, which is the first large-scale energy project in the China-Pakistan economic corridor, electric bag dust collectors, ash ???