



# Beijing Puneng Receives Letter of Commendation Regarding the 1Mwh Battery Installation at the Ganzi High Altitude Energy Storage Project in Sichuan Province, China

Date: 2024-11-04

Recently, Beijing Puneng received a letter of commendation from the Department of State Power Investment Corporation for the Ganzi Empirical Energy Storage Project in Sichuan.

This unique high altitude energy storage project battery was successfully delivered by Beijing Puneng and received thanks for the successful installation, commissioning and ongoing maintenance and operation, of the vanadium flow battery energy storage system for the Ganzi Energy Storage Program.

The letter stated that during the implementation of the project, Beijing Puneng had provided full cooperation to achieve the objectives of the project department and has completed the delivery, installation and commissioning of the energy storage unit on time. The on-site technical service personnel have been responding to the requirements in a timely manner and quickly resolved any problems encountered in the project. This facilitated the smooth grid connection of the project and the normal operation of the related power station equipment.

Since the project has been connected to the grid, the high-quality energy storage equipment provided by Beijing Puneng has been reliable and provided stable operation. They have completely met the requirements of the power station design and ensured the completion of the designed storage and electricity discharge production criteria for the project.



The average altitude of the site of the Ganzi-Zhengdou Photovoltaic Demonstration Project in Xiangcheng County, Ganzi Prefecture, Sichuan Province is about 4,000 meters. **This is the world's first ultra-high altitude photovoltaic demonstration project.** The implementation of this project fills the gap of China's photovoltaic demonstration programs in ultra-high altitude and mid-latitude areas and provides a reference for photovoltaic construction in similar scenarios on the Sichuan-Tibet Plateau and across the country at high altitudes. The project has constructed battery modules, inverters, mounts, various other types of energy storage products and comprehensively compares 5 demonstration experimental zones in the photovoltaic demonstration experimental area. It uses 127 empirical comparison methods for evaluation, comprehensively covering the advanced technology and most advanced equipment in the photovoltaic industry at this time. Various empirical comparisons are carried out on various mainstream technologies and cutting-edge equipment from home and abroad. The matching of different power generation systems and energy storage capacities and the responsiveness and safety of different batteries are studied.

In the energy storage part of this demonstration project, the 250kW/1MWh all-vanadium flow energy storage system was provided by the Beijing Puneng Company and has withstood all tests of the stability of the energy storage system under harsh natural conditions and the large temperature difference between day and night. It was successfully connected to the grid and has operated smoothly. The actual data derived from the test program will play a guiding role in the development and layout of new large-scale national energy storage projects in the future, and also allow Puneng to accumulate valuable experience in the operation

and maintenance of all-vanadium flow energy storage systems at ultra-high altitudes.



As a representative of large-capacity long-term energy storage, Beijing Puneng designed and installed all-vanadium flow energy storage systems are a very important technology and will provide infrastructure to support the new power systems of the future. As a leader in the all-vanadium flow energy storage industry, Beijing Puneng will continue to strengthen its product technology, new energy system solution service capabilities, and large-scale production and manufacturing capabilities, and continue to accumulate experience in on site project practice. It will contribute to the development of new energy storage productivity, promote the development of the energy storage industry, and help the construction of new advanced power systems.