# PowerChina Connects High-Altitude Solar Project in Tibet

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**PowerChina has achieved a significant milestone with the grid connection of the second phase of the Huadian Tibet Caipeng PV-Storage Project. Located at an elevation of 5,228 meters above sea level, this project sets a new benchmark for high-altitude solar power generation.**

The project, located in Naidong District, Shannan City, features an installed capacity of 150MW. The second phase, with a capacity of 100MW, commenced construction in August 2024 and incorporates nearly 170,000 PV modules. Notably, the project utilizes bifacial PV modules, which boast a conversion efficiency up to 7.5% higher than traditional modules, maximizing energy output by utilizing both sides of the panels.

The project also includes a 20MW/80MWh grid-based storage system, ensuring a continuous power supply of 80,000kWh for four hours during nighttime. This innovative approach addresses the challenges of intermittent solar power generation in remote and high-altitude regions.

The successful grid connection of the second phase follows the successful operation of the first phase, which began generating electricity in late 2023. The first phase has already contributed over 60 million kWh of electricity, significantly alleviating seasonal power shortages in the Shannan area.

This achievement further solidifies PowerChina’s position as a leader in renewable energy development. The company recently acquired 1GW of modules for a floating solar project in China, demonstrating its commitment to expanding its portfolio in diverse and challenging environments.

This project serves as a testament to PowerChina’s ability to overcome engineering challenges and deliver innovative and sustainable energy solutions in even the most demanding conditions.