

## 580 kWh energy storage battery suppliers

We have delivered 8 GWh of battery capacity, 5 GWh in 2022 alone, to projects including photovoltaics, agrivoltaics, stand-alone energy storage plants, and commercial and industrial customers.

**Details**Through this renewable energy plus storage plant, the local district in Gansu Province has achieved cost reductions for consumers in the region and secured the stability of the power supply. The project saves the equivalent annually of ca. 140.000 tons of standard coal, reducing carbon dioxide emissions by over 414.000 tons per year, sulphur dioxide emissions by 12.500 tons, and nitrogen oxide emissions by more than 6.000 tons. The plant additionally saves significant water resources and reduces solid particle emissions.

**Project outline**Location: Baotou City, Inner Mongolia, ChinaApplication: Providing storage at solar power plantProducts: 300.000 kW photovoltaics, a 220 KV booster station, battery storage systemPartner: TBEA Co. Ltd.

**Details**Located in Inner Mongolia along the Yellow River, this agrivoltaic plant with BESS enables power generation above the land and mechanised planting on the surface, reducing surface evaporation, improving land salinisation, and significantly increasing the value of the land use. The project deploys advanced technology components including high-efficiency inverters, large-capacity energy storage, and a smart O& M system, along with cutting-edge agricultural practices.

**Project outline**Location: Bangxi, Baisha, Hainan, ChinaApplication: Photovoltaic power generation + energy storage project with the largest capacity in BaishaProduct: 280 Ah CellsPartner: CGN

**Details**Set 75 meters above sea level on the southern island of Hainan, and with a 100 MW capacity, this is the largest capacity PV and ESS project in the Baisha region. The plant is expected to produce ca. 128 million kWh of clean electricity for the local grid per year, saving around 41.600 tons of standard coal annually. The emissions reductions each year will amount to 127.500 tons of carbon dioxide, 4.000 tons of sulphur dioxide emissions, and 2.000 tons of nitrogen oxide.

**Project outline**Location: Zhongwei City, Ningxia Province, ChinaApplication: stand-alone energy storage power station (the largest one in China).Products: 58 energy storage units of 3,45 MW / 6,88 MWh in 4 energy storage arrays of 50 MW / 100 MWh.Partner: Ningxia Jiaxu New Energy Technology Co., LTD

**Details**The largest stand-alone storage power station in China, supplied with HiTHIUM battery products, is set in an industrial park in Zhongwei City in Ningxia. The plant's containers feature HiTHIUM's liquid-cooling solution: close to the heat source, providing a uniform temperature and low energy consumption, liquid-cooling is more suitable for outdoor environment than air-cooling. Here, it can achieve a high level of long-term reliability and stability for the energy storage units, reducing the floor area for this power station by



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35% and enabling flexible O& M.

Also the first shared energy storage power station in Ningxia, the plant stabilizes the energy supply for local residents. The site can store up to 400.000 kWh of electricity on a single charge.

The Meizhou Baohu Energy Storage Power Station is located in an industrial park and is the first grid-side, stand-alone energy storage project with over 100 MWh on the China Southern Power Grid.

HiTHIUM's immersion liquid-cooling technology realizes an iterative upgrade of electrochemical energy storage safety, with a 50% increase in battery heat dissipation efficiency compared to typical methods. It allows a temperature rise of no more than 5 degrees Celsius for battery operation, with a difference of no more than 2 degrees Celsius between batteries. This ensures that batteries operate within the optimal temperature range, prolongs their service life, and improves the safety performance of the energy storage power station.

Project outlineLocation: Wuzhong City, Ningxia, ChinaApplication: Plant provides shared services for multiple new power generation stations in the region.Product: 280 Ah CellsPartner: CGN

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