

## 560 kWh energy storage battery installation

This hybrid energy storage (ESS) system made of advanced lead and lithium batteries is currently the largest of its kind in Poland.

Strategically situated to enhance the Bystra Wind Farm in Northern Poland, this facility maximizes renewable energy usage and stabilize local energy supplies.

Through efficient energy time-shifting, the system provides a reliable power source during peak demand periods, lowering energy costs for industries and residents. It focuses on low-carbon technologies and high recycling rates, setting a new standard for energy solutions in the region.

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This long-duration energy storage (LDES) system made of advanced lead-carbon batteries is currently the largest of its kind in the world.

Connected to Huzhou's main electricity grid since March 2023, the installation is helping to reduce energy costs to industries and citizens by providing an alternative power source at peak rates. These systems bring significant advantages such as low investment cost and rapid return on investment, and low carbon footprint with long design life and material with high recycling rates.

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On Livingston Island, part of the South Shetlands Archipelago, a remote Antarctic research station is backed by advanced lead battery energy storage.

Conducting climate change research since 1988, scientists at the Bulgarian Antarctic Base Bulgarian Antarctic Base "St. Kliment Ohridski, study geology, mineral resources, glacier movements and the marine ecosystem.

"Securing the BESS for the Bulgarian Antarctic Base is an honour and a great test-on-the-edge for our VRLA batteries."

Energy demand and consumption has steadily increased at the research station, requiring additional battery energy storage to support the needs of the scientists.

With a photovoltaic power plant deployed in 2008, the research station paired it with a battery energy storage system (BESS) using Monbat's advanced lead batteries.



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