



# Box for battery storage Antarctica

What makes Antarctica a good place to store energy?

A room full of classic lead-acid batteries enables the station to store energy for times when demands exceeds the current energy production. While the renewable energy systems that power the station are reliable and continuously checked, even in the harsh conditions of Antarctica, two generators were installed for security and backup.

Why did Antarctica have two generators?

While the renewable energy systems that power the station are reliable and continuously checked, even in the harsh conditions of Antarctica, two generators were installed for security and backup. They are also used to provide scheduled full load cycles which are part of the battery bank life performance.

Do you need a software configurable battery energy storage system?

With growing complexity in the energy market, you need a software configurable battery energy storage system that is flexible and will adapt to your needs, ensuring you always get the most from your investment.

Because of the changing weather conditions in Antarctica, the energy production is not always optimal. In order to ensure energy availability, however, the Princess Elisabeth Station was equipped with clusters of lead-acid batteries to store the excess energy for later use.

Traditionally, research stations in Antarctica were powered by fossil fuels. Powering a research station should not be an arduous task as it mainly requires a stable supply of electricity and...

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The project involved concept planning and basic engineering for a battery storage system with a capacity of approximately 500 kWh. The planning adhered to DNV standards, the world's ...

The PixiiBox is a bi-directional AC/DC power conversion module, allowing you to seamlessly scale both power conversion and energy storage capacity, with a range from 3 to 300kW. The systems can be connected in parallel to achieve additional total power and energy storage capacity.



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While the sun never sets in Antarctica for one half of the year, it never rises for the other half. This means that, in order to function properly during the Antarctic winter, the Princess Elisabeth Station needed a second source of energy that would be available all winter long.

The project involved concept planning and basic engineering for a battery storage system with a capacity of approximately 500 kWh. The planning adhered to DNV standards, the world's largest ship classification society, which certifies energy systems in maritime environments.

The Consortium for Battery Innovation will use the information you provide on this form to be in touch with you and to provide updates and marketing. Please let us know all the ways you would like to hear from us:

Battery energy storage using advanced lead batteries also facilitates the integration of more renewable energy sources into the electricity systems on site. This adds an additional level of sustainability to the project as advanced lead batteries are recycled at rates of close to 100%.

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a battery energy storage system (BESS) using Monbat's advanced lead batteries. The BESS is used to balance power grids and save surplus energy, whilst also providing uninterruptible power despite adverse weather conditions. Capable of operating in extremely low Antarctic temperatures of  $-38^{\circ}\text{C}$ , Monbat's VRLA lead batteries are chosen for their

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