



# New age solar solutions Antarctica

Can solar energy be used in Antarctica?

Solar energy has also become prevalent in Antarctic operations in the last decade. This type of energy was mainly introduced either to complement wind energy or in summer bases, summer shelters and on expedition equipment that can be powered by solar energy (radios, very-high-frequency (VHF) repeaters).

Can solar panels be installed in Antarctica?

Uruguay found the installation of solar PV panels at its Antarctic station to be an easy and straightforward task, with the first 1 kW-capacity setup being installed in 2018. Solar panels were mounted on the walls of the building to minimize interference from the wind.

Does Gregor Mendel Antarctic Station use solar energy?

Solar energy utilization in overall energy budget of the Johann Gregor Mendel Antarctic station during austral summer season. Czech Polar Reports, 5, 10.5817/cpr2015-1-1. CrossRef Google Scholar

Can co-generation be used in Antarctica?

A study conducted for the Brazilian Comandante Ferraz Antarctic Station explored the potential of co-generation and a combination of different renewable energy sources, observing the greatest potential for wind energy, followed by solar PV panels (covering only 3.3% of total annual consumption if placed on walls; de Christo et al. 2016).

What is a hybrid energy system in Antarctica?

Many national Antarctic programmes (NAPs) have adopted hybrid systems combining fossil fuels and renewable energy sources, with a preference for solar or wind depending on the specific location of the research station and previous experiences with certain technologies.

Who did the Antarctic Survey interview with?

UK: Interview with Parthena Exizidou - Energy & Carbon Reduction Manager, British Antarctic Survey. It was conducted via video call on 24 September 2020. ? Uruguay: Interview with Rafael Fraga - Department of Technology and Infrastructure, Uruguayan Antarctic Institute. It was conducted via video call on 3 September 2020.

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New installations include cylinders with 360° PV cells and bifacial panels, which have doubled their capacity and allowed for heating of the annexe buildings. The solar PV system installed at Casey Station covers ~10% of the station's total demand. There, 105 solar panels are mounted on the northern wall of the "green store".

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