Logic energy Antarctica

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.

Can solar energy be used in Antarctica?
Solar energy has also become prevalent in Antarctic operationsin 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).

Are green energy sources constant in Antarctica?
Green energy sources are usually not constant,especially in Antarctica. Because the station cannot endlessly create energy to meet an uncontrolled demand,all station's inhabitants have to adapt their demand to the quantity of available energy. A central computer monitors available energy and distributes it according to a set of strict rules.

Can co-generation be used in Antarctica?
A study conducted for the Brazilian Comandante Ferraz Antarctic Station explored the potential of co-generationand 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).

Does Antarctica have a wind turbine?
Wind power in Antarctica - case histories of the north wind HR3 wind turbine. In Sodhi, D.S., ed. Cold Regions Engineering. New York: American Society of Civil Engineers, 765 - 771. Google Scholar

Why does the energy switch turn green in Antarctica?
If energy can be delivered according to the system's priorities,the switch turns green,if not,the switch remains red and the user has to wait. Because of the changing weather conditionsin Antarctica,the energy production is not always optimal.

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Towards a greener Antarctica: A techno-economic analysis of renewable energy generation and storage at the South Pole ANL: Susan Babinec (energy storage), Ralph Muehlsein (solar modeling & system design), Amy Bender (CMB exp, S. Pole), NREL: Nate Blair (economics), Ian Baring-Gould (wind modeling), Xiangkun Li

(system optimization), Dan Olis

The WINDLogger technology by Logic Energy offered a reliable solution thanks to its compact size and rugged weatherproof design. The WINDLogger has several features that allow it to operate even when subject to harsh weather conditions in isolated locations such as ...

By collecting the latest data available on renewable energy deployment in Antarctic stations, this article provides a snapshot of the progress towards fossil fuel-free facilities in the Antarctic, complementing the data published in the ...

The smart data platform used by WINDCRANE has been developed by Logic Energy, who has more than a decade of experience in demanding industrial sectors such as energy, construction, and transportation. The system was first developed in 2007 and it has been evolving ever since.

Managed by a Programmable Logic Controller, the smart grid reaches an installed energy that is ten times superior to the energy production, making the station"s micro smart grid three times more efficient than any existing network.

WINDCRANE IoT remote wind speed monitoring has been developed by Logic Energy, a company with over a decade experience in IoT, energy and weather monitoring under very demanding environments like the Antarctica or Atakama desert. Justify downtime due to harsh weather and avoid project penalties and disputes over delays.

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technologies and approaches to enhance energy efficiency and embrace renewable energy in Antarctic operations. Advanced energy management controls, robust energy efficiency measures, encouragement of behavioral change, low energy instrumentation, improved insulation, innovative snow removal techniques

From ecosystem research in all types of environments, ranging from the Atacama Desert in northern Chile to the frozen lakes of Antarctica, collaborating with institutions such as the Research Group for Earth Observation (RGEO) and NASA. WindLogger and WindTracker are Logic Energy products, designed in Scotland and manufactured in the UK.

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By collecting the latest data available on renewable energy deployment in Antarctic stations, this article provides a snapshot of the progress towards fossil fuel-free facilities in the Antarctic, complementing the data published in the Council of Managers of National Antarctic Programs (COMNAP) Antarctic Station Catalogue (COMNAP 2017). In ...

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