

The present study maps the current use of renewable energy at research stations in Antarctica, providing an overview of the renewable-energy sources that are already in use or have been tested in the region.

being established on Antarctica, there is the growing potential for humans to impact negatively upon the environment. In order to more effectively manage this impact alternative energy generation sources are investigated. Traditionally, diesel fuels have been burnt to generate warmth and electricity for the occupants of Antarctic stations.

It proposes the development and realization of a clean energy system in Antarctica with important characteristics such as safety, reliability, green convenience, multi-energy complementarity,...

The use of renewable-energy sources has the potential to reduce research stations' greenhouse gas emissions, making research in Antarctica more sustainable.

Burning this fuel emitted around 5,500 tonnes of carbon dioxide into the Antarctic environment. Using alternative, renewable energy systems has many benefits including: large scale reductions in the emission of greenhouse gases

Based on this, this paper systematically reviews the achievements of the current Antarctic clean energy utilization technology, points out the current energy consumption structure of...

This paper tracks the progress of renewable energy deployment at Antarctic facilities, introducing an interactive database and map specifically created for this purpose.

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 ...

This article showcases a range of small and large scale energy efficiency and renewable energy deployments at Antarctic research stations and field camps. Due to the cold and harsh environment, significant amounts of fuel are needed to support humans working and living in Antarctica.

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 ...



Bte energy Antarctica

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

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