

As the Founding President & Senior Research Scholar of Global Institute on Environment for Sustainable Development (GIESD), he has been focusing on ecosystem ecology, ...

As the third decade of the 21 st century unfolds, the world finds itself at a critical juncture in the realm of energy [1].The growing urgency of climate change challenges, combined with the simultaneous need for energy security and economic stability, has sparked a heightened global conversation about the future of our energy sources.

Bisol's 22kW project aims to meet the increasing energy needs of the Princess Elisabeth Antarctica Research Station. Image: René Robert - International Polar Foundation

Transporting fuel and oil to Antarctica is a costly and sometimes risky exercise. Before the introduction of renewable energy systems, Australian stations required 2.1 megalitres of diesel fuel every year for power and heating. Burning this fuel emitted around 5,500 tonnes of carbon dioxide into the Antarctic environment.

The systems assessed are: (1) global average air temperature; (2) Antarctic contribution to global sea level; (3) Antarctic surface air temperature; (4) Southern Ocean surface temperature; (5 ...

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Over the modern satellite era, substantial climatic changes have been observed in the Antarctic, including atmospheric and oceanic warming, ice sheet thinning, and a general Antarctic-wide expansion of sea ice, followed by a more recent rapid loss. Although these changes, featuring strong zonal asymmetry, are partially influenced by increasing greenhouse ...

Small-scale renewable energy systems have been attempted in Antarctica. The renewable energy system established in the German Neumayer station consists of five new ...

Antarctica: Role in Global ClimateIntroductionThe world's climate system is, in some ways, like a complex machine. Heat is moved from place to place by ocean currents and by winds; winds, ocean currents, sea ice, land ice, snow cover, vegetation, and other factors affect climate and are affected by climate. The chemical composition of the atmosphere, which is being changed by ...

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Loss of Antarctic sea-ice could also add to the anthropogenic global warming Between 1992 and 2018 the changes in the reflectivity of polar regions, on average, amounted to a global warming effect ...

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Spectra spanning over three decades of length-scales reveal the Antarctic Circumpolar Current as the spectral peak of the global extra-tropical circulation, at ~ 104 km, and a previously ...

This study combines a polar-specific AR detection algorithm with MERRA-2 precipitation rates to quantify the contribution of ARs to Antarctic snowfall. Integrated over the ice sheet, ARs contribute around 13% to Antarctic snowfall. The contribution varies substantially from year to year and on a regional (glacier basin) scale but is relatively constant throughout the ...

The energy problem is the main factor restricting domestic and foreign polar scientific research. In recent years, the world has advocated green expeditions to Antarctica, and 100 % clean energy power supply systems have attracted much attention. Small-scale renewable energy systems have been attempted in Antarctica.

Governing Antarctica 109 Global Policy (2010) 1:1 2010 London School of Economics and Political Science and John Wiley & Sons Ltd. ... 2010 London School of Economics and Political Science and John Wiley & Sons Ltd. Global Policy (2010) 1:1. with regard to so-called total allowable catches. The stated goal of CCAMLR is to ensure sustainable ...

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The combined effect of these additional gases will be a rise in global temperatures, predicted by climate models to be 1°C to 4°C , by the end of the 21 st century. Global warming will not be uniform over the earth because of the complex interactions within and between oceans, atmosphere, land surface, clouds, biological systems and ice and snow.

The research was conducted through scientific expeditions to Antarctica (2008-2011 summers), an energy audit of the EACF during the 2011 expedition, the estimation of the local energy resources and analyses of hybrid energy systems, subjected to the local logistic restrictions and worst climate characteristics.

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Renewable energy hybrid systems in Antarctica are tailored to the specific characteristics of each site because key factors such as terrain and weather vary widely across the continent. For example, Belgium's Princess Elisabeth Station employs both wind turbines and solar panels to generate a 100% renewable energy supply (132 kW).

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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

RES, the world's largest independent renewables company, has been awarded the asset management contract for the landmark Larks Green project, the UK's first co-located solar and battery energy storage system connected to the transmission network. Developed by Enso Energy and owned by Cero Generation, the site near Bristol combines 70MW...

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Antarctica has an essential role in regulating Earth's climate and ocean ecosystem function, and Antarctica's biosphere is dominated by microorganisms. In this Review, Cavicchioli discusses the ...

Paris Agreement and the more recent commitments to reach net-zero emissions by 2050 have highlighted the urgency to phase out fossil fuels and decarbonize the global energy system. Antarctica should be no exception, ...

, (: Sempra Energy) (: Southern California Gas Company) ? 201616, ...

To date, few Earth System Models (ESMs) have the ability to simulate the flow in the ocean cavities below Antarctic ice shelves and its influence on basal melting. Yet capturing both this flow and the resulting melt patterns is critical for representing local, regional, and global feedbacks between the climate and sub-ice-shelf melting. Here, we present a small ensemble ...

Antarctica continuously and autonomously throughout the year. o One of the earliest experiences of energy efficiency and renewable energy in Antarctica was the pilot alternative energy system used at Greenpeace's World Park base operated in Ross Island between 1987 and 1992.

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