

# Generating solar energy Heard and McDonald Islands

Could distributed energy resources boost the deployment of renewables on islands?

Distributed energy resources - or small-scale energy resources that are usually situated near sites of electricity use, such as rooftop solar - could play an important role in boosting the deployment of renewables on islands, increasing the security, resilience and affordability of power systems while accelerating decarbonisation.

Where are Heard Island and McDonald Islands located?

The islands are a territory (Territory of Heard Island and McDonald Islands) of Australia administered from Hobart by the Australian Antarctic Division of the Australian Department of Climate Change, Energy, the Environment and Water.

Why are Heard Island and McDonald Islands isolated?

However, the site's isolation assists in reducing anthropogenic impacts upon the site's values. Heard Island and McDonald Islands are located in the Southern Ocean, approximately 1,700 km from the Antarctic continent and 4,100 km south-west of Perth.

How can solar energy help the Galapagos Islands?

Solar PV and additional wind for the Galapagos Islands - integrating further renewables and storage in San Cristobal Island energy mix to reduce their dependence on diesel fuel and subsidies. Feasibility study part 1: site survey preparation and planning

What's happening on Heard Island & McDonald Islands?

Landing stores, Atlas Cove, Heard Island with Rogers Head in background Photo: Alan Campbell-Drury Due to the extreme isolation of Heard Island and McDonald Islands (HIMI), together with the persistently severe weather and sea conditions, human activities in the region have been, and remain, limited.

Is there a threat to Heard Island and the McDonald Islands?

Ongoing and accelerating climate change poses an increasing risk of fundamental alterations in biodiversity. Geological processes (primarily volcanism and glacial retreat) continue undisturbed. The overall assessment is that there is a low threat to the World Heritage values of Heard Island and the McDonald Islands if visitation remains low.

The Heard & McDonald Islands site in Australia was inscribed on the World Heritage List in 1997. As the only volcanically active sub-Antarctic islands, Heard and McDonald provide the ...

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Note: RE = renewable energy; EE = energy efficiency The findings in this report consider targets and developments as of April 2019. The wind and solar PV capacities in the Transforming Energy Scenario in 2030 in this report are slightly higher than the estimates presented in

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The Territory of Heard Island and McDonald Islands contains outstanding examples of active geological processes continuing in a largely undisturbed environment, free of local anthropogenic impacts. The physical processes provide an understanding of hotspot magmatism in an intraplate setting and of atmospheric and oceanic warming.

Alternative energy sources such as wind, geothermal, hydro and solar have grown increasingly popular as ways to reduce greenhouse gas emissions and strengthen the grid by decentralizing power production. Solar energy, which converts energy from the sun into thermal or electrical power, is rapidly expanding across America and the world.

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Demand for energy in most islands is rising due to tourism and population growth. o Many islands are committed to replace fossil fuels with renewable energy sources. o The studied cases are projected to achieve 50% generation from solar energy by 2030. o This would reduce their dependency on diesel imports and the risks of fuel spills. o

?????(McDonald Islands)???1????,?? ??? ??42???,?????(Flat Island)?????(McDonald Island)????(Meyer Rock)??????,????

Five species of vascular plant occur on McDonald Islands and 11 on Heard Island . The isolation of the plant communities, combined with the increasing growth of habitat resulting from glacial retreat, makes Heard Island of significance for the study of plant colonization (UNEP/WCMC 2008 ).

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The Heard & McDonald Islands site in Australia was inscribed on the World Heritage List in 1997. As the only volcanically active sub-Antarctic islands, Heard and McDonald provide the opportunity to observe ongoing geomorphic processes and glacial dynamics.

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