

BLINK SOLAR

Cook Islands wind power system



Overview

Will the Cook Islands have a wind energy project?

The proposed wind energy project in the Cook Islands, assuming the wind resource proves to be viable and the project performs as expected, will have a high international profile and, as indicated in the UNDP/UNESCO report, will be designed for ease of replication by other island countries in the Pacific and elsewhere.

What is the energy sector like in the Cook Islands?

The Cook Islands energy sector relies 100 % on imported fuels for transport, electricity generation and household use. In the year 2005 the world has experienced a period of price volatility for petroleum that saw petroleum prices increase from US\$ 40/bbl in mid March to US\$ 70bbl in September.

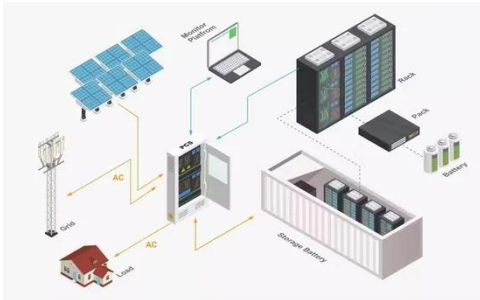
Is a grid-connected wind energy project feasible for Rarotonga?

A grid-connected wind energy project for Rarotonga in the 2 MW class is technically feasible and financially and economically sound at current fuel price levels. A conservative base case calculation of the projects Economic Internal rate of return shows a value of 4.4 %.

Is the wind resource in Rarotonga overestimated?

Gross wind energy available (col 3) and gross wind surplus energy (col 4) and thus the net wind supply to load (col 5) have been reduced to from the UNDP/UNESCO report estimates in recognition that there is a significant risk, pending further monitoring, that the wind resource in Rarotonga has been overestimated.

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Cook Islands windward energy

Does the Cook Islands have electricity? The Cook Islands has a financially healthy electricity sector with technical and commercial challenges requiring on-going investment. With ...

Wind Energy Resource Assessment for Cook Islands With ...

Wind energy resource assessments at two islands in the Cook Islands are carried out in the present work. The wind data were collected for one year from sites on Mauke and ...



Wind Energy Resource Assessment for Cook Islands With ...

Plans for generating wind power in Cook Islands were made after a feasibility study was carried out for a 2 MW wind farm [7]. The study highlighted the need for wind ...



ENERGY PROFILE Cook Islands

Onshore wind: Potential wind power density (W/m^2) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area ...



Cook Islands Wind Resource Monitoring

The Pacific Islands Forum Secretariat's wind and solar monitoring project is the main long-term data source for Rarotonga wind energy and is used to estimate wind regimes of other islands. ...

Cook Islands Renewable Energy , Beca

The Cook Islands Government aims to achieve 90% of their power needs from renewable energy by 2020. We helped the government realise its aim. To support the Cook Islands Government, ...



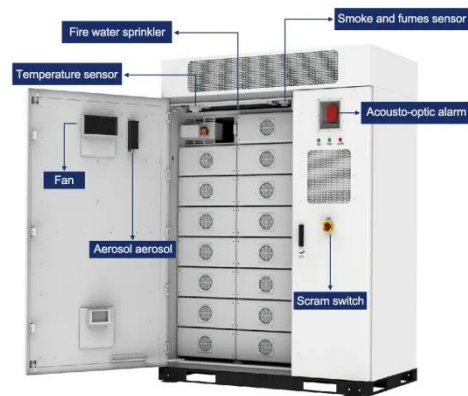
Feasibility of grid-connected wind power for Rarotonga, ...



This report is based on two documents:
The Project Proposal for Grid Connected
Wind Power on Rarotonga presented by
UNDP Samoa in March 2002 and the
Evaluation of ...

Survey and Site Assessment Report

The report was for Te Aponga Uira (TAU)
and it was funded by The South Pacific
Regional Environment Programme
(SPREP). The preliminary investigation
has been ...



Cook Islands hybrid solar wind power

Examining wind quality and wind power
prospects on Fiji Islands In Foremost,
Mangia Island in the Cook Islands, two
20 kW Vergnet wind turbines were
installed in January 2004. Zieroth [6] ...

Contact Us

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