

Renewable energy in the Cook Islands is primarily provided by solar energy and biomass. Since 2011 the Cook Islands has embarked on a programme of renewable energy development to improve its energy security and reduce greenhouse gas emissions, [1] with an initial goal of reaching 50% renewable electricity by 2015, and 100% by 2020. [2]

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

Cook Islands Renewable Energy Investment Plan (REIP) report finalised in 2021 and outlines plans for Stage 2 and Stage 3 Renewable Energy Project Scoping Report ; Outlook: Commencement of the Stage 2 and ...

Renewable Energy Opportunities and Challenges in the Pacific Islands Region: Cook Islands 1 1. Country context Physical description. The Cook Islands consist of 15 islands totalling 240 km<sup>2</sup> of land, located in the South Pacific Ocean half-way between Tonga and Tahiti. Approximately 90% of the land and population are in the

The Cook Islands is a net importer of energy, in the form of petroleum products. Total energy consumption was 1,677,278,000 BTU (1.77 TJ) in 2017, of which 811,000,000 (0.86 TJ) was in the form of oil. In 2012 47% of imported oil was used in the transport sector, 30% in aviation, and 27% for electricity generation. Electricity consumption is 31.6 GWh, from 14 MW of installed generation capacity, with most load concentrated on the main island of Rarotonga. Per-capita el...

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All inhabited islands of the Cook Islands currently have centralised power supplies, providing single phase (230 V) or three phase (415 V) through a distribution grid to most residential and commercial and industrial customers 4 .

Beyond this plan, there is still much work that needs to be done to ensure that all Cook Islanders have affordable, reliable and sustainable energy to power our future. Transport is a crucial issue in our remote and widely dispersed island nation. There is a need for frequent and reliable linkages between islands and internationally.

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