

# Cook Islands off grid electrification

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## INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT





## Overview

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Renewable energy in the is primarily provided by and biomass. Since 2011 the Cook Islands has embarked on a programme of renewable energy development to improve its and reduce , with an initial goal of reaching 50% renewable electricity by 2015, and 100% by 2020. The programme has been assisted by.



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### ENERGY PROFILE Cook Islands

Cook Islands COUNTRY INDICATORS AND SDGS  
TOTAL ENERGY SUPPLY (TES) Total energy supply in 2021 Renewable energy supply in 2021  
93% 0% 7% Oil Gas Nuclear Coal + others  
Renewables 32% 68% World Cook Is Biomass potential: net primary production Indicators of renewable resource potential Cook Is 0% 20% 40% 60% 80%

### Cook Islands: 100% Renewable Energy in Different Guises

In its approach to delivering a 100% renewable energy target across 12 islands by 2020, the Cook Islands presents a rare insight into how planning requirements of high ...



### Renewable energy in the Cook Islands

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, with an initial goal of reaching 50% renewable electricity by 2015, and 100% by 2020. The programme has been assisted by ...

### COOK ISLANDS: The Cook Islands Renewable Electricity Chart ...



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.



### Renewable energy in the Cook Islands

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]

### Cook Islands Country Report

o3.95MWp grid connected PV, 0.1MW off-grid system o Capacity split is 73% private sectors & 27% TAU owned o Private sector split - IPP 62%, Net-meter 38% oGrid connected solar ...



### Electricity in Cook Islands in 2022

As of 2022, the state of electricity consumption in the Cook Islands illustrates a balanced yet elementary mix of energy sources. Approximately half of the electricity generated comes from low-carbon sources, with solar energy contributing entirely to this segment.



## Cook Islands: 100% Renewable Energy in Different Guises

In its approach to delivering a 100% renewable energy target across 12 islands by 2020, the Cook Islands presents a rare insight into how planning requirements of high penetration renewable island systems vary with scale.



## Access to Electricity in Small Island Developing States of the

This paper argues that traditional approaches to rural electrification which prioritise grid extension are not suited to the Pacific islands region. Increased funding should be directed by both governments and development partners towards rural electrification, especially in off-grid

## Fuelling the Pacific: Aid for renewable energy across Pacific Island

For the Pacific island countries to reach these goals, however, they depend on donor funding. This paper therefore analyses energy-related aid to the South Pacific from 1990 through 2012, and specifically evaluates its development in three areas: energy technology, grid vs. off-grid solutions, and project components.



## COOK ISLANDS: The Cook Islands Renewable Electricity Chart ...

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### CookIslands

With regard to the power sector, around 97% of households in Cook Islands are connected to the electricity with 100% grid connection in Rarotonga. Aitutaki, Mangaia and Atiu are other islands in Cook Islands that also have access to 24-hour electricity.



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### Small Islands Developing States (SIDS) Lighthouses Initiative

Linkages of SIDS LHI 2.0 to Off-Grid Electrification Reinforce links with water-energy-food nexus o Solar powered crop irrigation o Water supply via Solar powered reverse osmosis Climate ...





## Small Islands Developing States (SIDS) Lighthouses Initiative



Linkages of SIDS LHI 2.0 to Off-Grid Electrification Reinforce links with water-energy-food nexus  
o Solar powered crop irrigation  
o Water supply via Solar powered reverse osmosis  
Climate resilience and disaster recovery  
o Back-up power supply for essential services e.g. health facilities, emergency shelters, communication

## Cook Islands Country Report

o 3.95MWp grid connected PV, 0.1MW off-grid system  
o Capacity split is 73% private sectors & 27% TAU owned  
o Private sector split - IPP 62%, Net-meter 38%  
o Grid connected solar generators ranges in size from 1kWp -960kWp.



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