



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.



Installation of large energy storage technologies (storing energy for prolonged periods of time) with further renewable generation. The staged process allows observation of the power system behaviour, timely change of operations



The Cook Islands in the Pacific will host a 5.6MWh lithium-ion battery energy storage system for the integration of renewables, in a project funded by the Asian Development Bank, European Union and Global Environmental Fund.

# COOK ISLANDS ENERGY STORAGE MODELING



This study presents the method for reaching 100% sustainable energy systems in Cook Islands. It covers the possibility of fulfilling this objective from technical, commercial and environmental aspects.



Government, in its endeavour to achieve its Goal, has produced the "Cook Islands Renewable Electricity Chart" the "Cook Islands Renewable Energy Chart Implementation Plan" as its guiding papers to which the Island Specific Implementation Plan is developed.



This report presents the findings of a feasibility study of an Energy Storage for Rarotonga. The report was developed by DNV KEMA for Te Aponga Uira (TAU) to assess the need and feasibility for storage for the Island of Rarotonga under selected future generation scenarios.

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