

Cook islands specific energy storage applications

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This publication highlights lessons from 26 case studies in the Cook Islands and Tonga. It provides recommendations on improving the implementation of battery energy storage and renewable energy-based hybrid electricity systems.

Small island developing states in the Pacific are urgently seeking to address the challenges of climate change, energy security, and energy access by generating more renewable energy and reducing their reliance on imported fossil fuels. The hybrid and battery energy storage implementation recommendations in this publication focus on the technical aspects of robust systems, procurement and contract management, and decision-making processes.

The Asian Development Bank (ADB) is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. It assists its members and partners by providing loans, technical assistance, grants, and equity investments to promote social and economic development.

In 2014 construction began on the 960 kW Te Mana O Te Ra solar farm at Rarotonga International Airport. The solar farm was commissioned in October 2014. In September 2022 three battery-electric storage systems with a combined capacity of 13 MWh were installed on Rarotonga.



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