



# Cook Islands: Renewable Energy Project

Project Name	Renewable Energy Project	
Project Number	46453-001	
Country / Economy	Cook Islands	
Project Status	Closed	
Project Type / Modality of Assistance	Technical Assistance	
Source of Funding / Amount	TA 8439-COO: Renewable Energy Project	
	Japan Fund for Prosperous and Resilient Asia and the Pacific	US\$ 500,000.00
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth	
Drivers of Change	Gender Equity and Mainstreaming	
Sector / Subsector	Energy / Energy efficiency and conservation	
Gender	Effective gender mainstreaming	
Description	<p>The proposed project will assist the government's efforts to reduce the country's heavy reliance on imported fossil fuels for power generation. By providing a secure, sustainable and environmentally-sound source of electricity for private and commercial consumers, it will implement a package of solar photovoltaic power connected to the existing power distribution networks and a package of solar photovoltaic power off-grid totaling about 6 MWp of capacity</p> <p>The impact of the project will be reduction of the Cook Islands' dependence on imported diesel for power generation. The outcome will be that customers within the project area have access to a higher share of electricity generated by solar power. The outputs will include (i) The Office of the Energy Commissioner implements 6 MW of solar power capacity in the project area; (ii) Operation and maintenance knowledge transfer program and (iii) Efficient project management services.</p>	
Project Rationale and Linkage to Country/Regional Strategy	<p>Diesel is mainly consumed for generation of electricity, gasoline for land transportation, and kerosene for aviation and home consumption. In 2011, around 12.7 million liters of diesel (7.2 million liters used for generation of electricity), 4.2 million liters of petrol, and 9.7 million liters of kerosene were imported into the country. The total fuel import bill of the Cook Islands in 2011 was \$58 million or about 28% of the country's gross domestic product (GDP) of \$210 million. Diesel-powered generators constitute about 99% of the total electricity generating capacity. Energy costs are currently among the highest in the Pacific, therefore replacement of conventional power generation sources is needed to reduce costs to businesses to allow them to operate within an internationally competitive and cost-sensitive environment.</p> <p>The total installed, power generation and distribution assets in the Cook Islands is 11.75 MW capacity (99% diesel, and 1% renewable) with a power distribution network comprising 80 kilometers (km) of 11kV underground cables and 200 km of 0.415 kV low voltage distribution lines. The whole power system generated 33.846 gigawatt hour (GWh) of electricity in 2011. In the major islands of Rarotonga and Aitutaki nearly 99% of all households are grid connected, 8% had additional solar photovoltaic home systems (SHS), and 3% used small diesel generators as well. In the outer islands, about 60% of households are grid connected, and 43% have a SHS</p>	
Impact		
Project Outcome		
Description of Outcome		
Progress Toward Outcome		
Implementation Progress		
Description of Project Outputs		
Status of Implementation Progress (Outputs, Activities, and Issues)		
Geographical Location		
Summary of Environmental and Social Aspects		
Environmental Aspects		
Involuntary Resettlement		
Indigenous Peoples		
Stakeholder Communication, Participation, and Consultation		
During Project Design		
During Project Implementation		
Business Opportunities		
Consulting Services	The TA will require 16 person-months of international and 5 person months of national consulting inputs. ADB will hire a consulting firm in accordance with the Guidelines on the Use of Consultants by ADB and its Borrowers (2013). In accordance with its paragraph 2.31 evaluation of the consulting entity qualifications will take into account possibility of downstream assignment (implementation of the investment project). Goods will be procured as per ADB's Procurement Guidelines (2013). The consulting firm will be engaged through fixed budget selection (FBS) method, due to the specific technological complexity of the project using simplified technical proposal. The proceeds of the TA will be disbursed in line with ADB's Technical Assistance Disbursement Handbook (April 2010, as amended from time to time).	
Responsible ADB Officer	Hattle, Paul S.	
Responsible ADB Department	Pacific Department	

Responsible ADB Division	Transport, Energy and Natural Resources Division, PARD
Executing Agencies	Ministry of Finance & Economic Management PO box 120 Cook Islands

Timetable	
Concept Clearance	-
Fact Finding	-
MRM	-
Approval	04 Sep 2013
Last Review Mission	-
Last PDS Update	12 Nov 2013

## TA 8439-COO

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
04 Sep 2013	11 Sep 2013	11 Sep 2013	30 Apr 2014	-	14 May 2014

Financing Plan/TA Utilization							Cumulative Disbursements	
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
0.00	500,000.00	0.00	0.00	0.00	0.00	500,000.00	17 Jun 2022	495,000.00

Project Page	<a href="https://www.adb.org/projects/46453-001/main">https://www.adb.org/projects/46453-001/main</a>
Request for Information	<a href="http://www.adb.org/forms/request-information-form?subject=46453-001">http://www.adb.org/forms/request-information-form?subject=46453-001</a>
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