# Nauru: Electricity Supply Security and Sustainability - Additional Financing

Project Name	Electricity Supply Security and Sustainability - Additional Financing		
Project Number	46455-004		
Country	Nauru		
Project Status	Approved		
Project Type / Modality of Assistance	Grant		
Source of Funding / Amount	Grant 0443-NAU: Electricity Supply Security and Sustainability - Additional Financing		
Amount	Australian Grant	US\$ 4.74 million	
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth		
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development		
Sector / Subsector	Energy - Energy sector development and institutional reform		
Gender Equity and Mainstreaming	No gender elements		

Description	Nauru is a Pacific island country with a total population of 10,000 people. Access to grid electricity is universal, but unreliable, due to underinvestment and poor maintenance history of its generation and distribution assets. Installed generation currently comprises eight units with a total nameplate capacity of 12.9 megawatts (MW). However, Nauru's available capacity is only 3.7 MW due to inoperability (two units) and de-rating of installed units. Current peak load is 3.75 MW. Scheduled curtaliments are a constant feature of electricity service in Nauru and unscheduled outages due to faults are frequent. The physical structure of the power house at Nauru Utility Corporation (NUC) is likewise in poor condition and is vulnerable to Nauru's electricity supply security. Addressing reliability and efficiency shortcomings in Nauru's current diesel generation fleet is of the first-order priority to mitigate the risk of catastrophic failure of Nauru's power generation. The ongoing Nauru Electricity Supply Security and Sustainability Project (the project) has three out puts: (i) New diesel-fired generation put into service: a new, medium-speed, 2.6-3.0MW diesel generator will be installed, together with related auxiliary equipment and NUC personnel will be trained on its operation and maintenance; (ii) Repair and/or replacement of existing roof and structural reinforcements of NUC's powerhouse: the NUC powerhouse roof will be rehabilitated and all abestos will be removed and safely disposed; (iii) Efficient project implementation: NUC will be assisted by a project management unit (PMU) with services of international consultants during project implementation . The project was approved by the Asian Development Bank (ADB) on 7 November 2014. The project is financed by a grant 0414-NAU of \$2.00 million from ADB's Special Funds resources (Asian Development Fund (ADF)), and a cofinancing grant 0424-NAU of 2.00 million (\$2.70 million equivalent), provided by the EU, and fully administered by ADB. ADB and the EU concluded a
Project Rationale and Linkage to Country/Regional Strategy	The Nauru Energy Road Map states the aim of the Government of Nauru is to ensure 24/7 grid electricity supply with minimal interruptions. NUC requires sufficient installed generation capacity to achieve the target and to avoid load shedding and concurrent outage due to engine failures of the existing generating units. Over 50% of the current capacity is from high speed diesel engines and these are not ideally suited to supplying base-load power as they consume more diesel per kWh generated and require more maintenance per run-hour than medium speed engines. Installing two new medium-speeds, 2.6-3.0MW diesel generators will increase the generating capacity by 5.2-6.0MW totaling to around 9.7MW. The increased capacity will ensure less likelihood of power outages when generators are taken off-line for maintenance. NUC envisages the actual total demand in the island to be around 10-12 MW including the demand currently not connected to the grid. The increased capacity will serve this demand and generate additional revenue for the Government. NUC expects to replace the operations of the old and high speed generators with medium speed, fuel efficient new generators. NUC's power system reticulates supply around the island at 11kV. The existing 11kV switchgear at the power station is in a very poor condition and presents a significant safety issue for NUC and requires immediate replacement and to allow for the connection of the two new generators. On request of the Government of Nauru, the Government of Australia has agreed to provide an additional cofinancing grant of A\$6.4 million (\$4.96 equivalent) for the project for supply and installation of another similar type and rated generator and 11kv switchboard. The Government of Nauru has requested ADB to administer this additional cofinancing grant. The additional cofinancing grant from the Government of Australia will help finance the increase in project cost from \$5.54 million to \$10.5 million or by 89.5%. The project was recently approved by the Board and the addition
Impact	Increased economic activity

## **Project Outcome**

Description of Outcome

Increased reliability, lower cost, and greater sustainability of power generation in Nauru

#### **Implementation Progress**

Description of Project Outputs	New diesel-fired generation put into service Repair and/or replacement of existing roof and structural reinforcements of NUC's powerhouse Efficient project implementation
Status of Implementation Progress (Outputs, Activities, and Issues)	

Geographical Location

## **Safeguard Categories**

Environment	В
Involuntary Resettlement	С
Indigenous Peoples	С

## Summary of Environmental and Social Aspects

Environmental Aspects	
Involuntary Resettlement	
Indigenous Peoples	
Stakeholder Communication	, Participation, and Consultation
During Project Design	government officials, development partners and other stakeholders have been consulted during the project design process.
During Project Implementation	government officials, development partners and other stakeholders will be consulted during the project implementation process.

## **Responsible Staff**

Responsible ADB Officer	P.P.G.P.P. Indrawansa
Responsible ADB Department	Pacific Department
Responsible ADB Division	Pacific Liaison and Coordination Office in Sydney, Australia
Executing Agencies	Ministry of Finance Government Building Nauru

#### Timetable

Concept Clearance	17 Jun 2015
Fact Finding	08 Jun 2015 to 10 Jun 2015
MRM	14 Aug 2015
Approval	16 Oct 2015
Last Review Mission	
Last PDS Update	30 Jul 2015

#### Grant 0443-NAU

Milestones						
Approval	Signing Data	Effectivity Date	Closing			
Approval	Signing Date		Original	Revised	Actual	
16 Oct 2015	-	-	30 Sep 2017	-	-	

Financing Plan		Grant Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage

Project Cost	4.74	Cumulative Contract Awards			
ADB	0.00	16 Oct 2015	0.00	0.00	0%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	4.74	16 Oct 2015	0.00	0.00	0%

Project Page	https://www.adb.org/projects/46455-004/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=46455-004
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