

European Solar and Energy Storage Solutions

Power system solution Nauru



Overview

How will ADB support the Nauru solar power development project?

ADB also provided GoN support to prepare a Feasibility Study for the recommended Nauru Solar Power Development Project which will comprise of a 6 megawatt PV plant coupled with a 5 megawatt / 2.5 megawatt-hour battery energy storage system coupled with a SCADA installation.

Who will implement solar project in Nauru?

The executing agency will be the Department of Finance and Sustainable Development. The implementing agency for solar component of project will be the Nauru Utilities Corporation (NUC). NUC will establish a project management unit within their existing organisational structure to implement the project.

What is the impact of Nauru energy project?

The project impact is a reliable, affordable, secure, and sustainable energy supply to meet the socio-economic development needs of Nauru. The outcome of the project will be that NUC, the state-owned power and water utility, will supply reliable and cleaner electricity.

What is a Nauru power expansion plan?

The electrical network comprises 11kV, 3.3KV and LV overhead lines. Asian Development Bank (ADB) provided Government of Nauru (GoN) a transactional technical assistance TRTA to prepare a Nauru power expansion plan. The plan identified that a PV array and battery energy storage system should be constructed.

How will Nauru's solar power system work?

The system will be fully integrated and automated with the existing diesel generation (17.9 MW installed capacity currently manually operated) to optimize solar energy use, to enable optimal BESS charging/discharging and

to provide optimal shut off of the diesel engines. This will reduce Nauru's over reliance on diesel for power generation.

Why is Nauru so vulnerable to solar energy?

Solar energy is the only proven renewable energy resource which could be utilised in short to medium term to reduce dependency on fuel imports for electricity generation. The country's vulnerability is also increased by its isolation from other Pacific Islands. In 2012, SPC released an energy profile of Nauru based on 36 energy security indicators.

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Pacific Renewable Energy Investment Facility Nauru: Solar ...

new sources of power and to develop a solar expansion plan for NUC. The TA team identified a solar power system supported by a BESS to be the least-cost option for reducing dependence on diesel while improving electricity supply and reliability. With the project, the levelized cost of

Quienes Somos

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Nauru solar expansion plan

Together, GHD teams New Zealand, the Philippines, Australia, and the UK, with support from local team members in Nauru, have prepared a Solar Expansion Plan and Feasibility Study for a grid-connected solar power plant and a battery energy storage system.



Nauru specific energy storage applications

A 6 MW solar plant and 5 MW/2.5 MWh storage system are set to increase the share of renewable electricity on the Pacific island of Nauru from 3% to 47%. The \$27 million project is being supported by the Asian Development Bank (ADB).

Nauru Energy Sector Overview

The Nauru Energy Policy Framework (NEPF) was endorsed in 2009 and layout broad aims and strategies for the energy sector, including power, renewable and energy efficiency. The NUC currently provides all electricity services to Nauru except for RPC and the main processing plant of RONPHOS. The status of the utility as a



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Power System Solutions Ltd. is a privately owned company based in Thunder Bay, Ontario. Established in 2012, Power System Solutions specializes in the delivery of a comprehensive array of services including power system construction, commissioning, and maintenance for industrial and utility clients.

Nauru Solar Power Development Project

The Nauru Solar Power Development Project - Battery Energy Storage System is being developed by Nauru Utilities. The project is owned by Nauru Utilities (100%). The key applications of the project are renewable energy integration and grid support services.



Solar-battery combination for Nauru - Global ...

Nauru has recently invested almost \$30 million in a photovoltaic and battery energy storage combination. The project will finance a 6 megawatt (MW) grid-connected photovoltaic solar system together with a battery energy ...



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Solar-battery combination for Nauru - Global Opportunity Explorer

Nauru has recently invested almost \$30 million in a photovoltaic and battery energy storage combination. The project will finance a 6 megawatt (MW) grid-connected photovoltaic solar system together with a battery energy storage system, that will be completed in 2023 and save over 11,000 tons of CO₂ equivalent emissions annually.

Nauru: Solar Power Development Project

1. The project will finance a 6MW grid connected solar power plant (measured as AC output) and

2.5MWh/5MW battery energy storage system (BESS) for solar smoothing energy storage (SSES). The system will be fully integrated and automated with the existing diesel generation



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Battery storage in nauru , Solar Power Solutions

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