

## European Solar and Energy Storage Solutions

# Resourceful energy Nauru



## Overview

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Does Nauru have energy resources?

Nauru, like most Small Island Developing States (SIDS) in the Pacific region, has scarce local energy resources limited to solar energy and biomass and imports most of the energy consumed from abroad. To address this, the country has started the Supporting Mainstreamed Achievement of Roadmap Targets on Energy in Nauru project.

How can Nauru reduce its reliance on fossil fuels?

In order to achieve Nauru's ambitious goal of reducing the country's high reliance on imported fossil fuel by meeting 50% of its energy needs from renewable energy sources by 2015,<sup>1</sup> the Nauru Government requested technical support from GIZ, SPC and IRENA in the development of a Nauru Energy Road Map in early 2012.

Does Nauru have an energy road map?

Currently Nauru is working on an Energy Road Map, including action plans for the development of renewable energy and energy efficiency sufficient to significantly lower imports of diesel fuel for electricity 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.

What type of electricity is used in Nauru?

Renewable electricity here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal power. Traditional biomass – the burning of charcoal, crop waste, and other organic matter – is not included. This can

be an important source in lower-income settings. Nauru: How much of the country's electricity comes from nuclear power?

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What percentage of Nauru's electricity is generated from renewable resources?

Currently approximately 1% of Nauru's electricity is generated from renewable resources with all of this contribution coming from solar PV systems of an estimated total installed capacity of 230 kWp.

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### Nauru: Energy Country Profile

Nauru: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.

### ENERGY PROFILE Nauru

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided



### Mining & Resources

Solar energy presents numerous benefits for the resources sector, revolutionising the way we extract, process, and utilize natural resources. By integrating solar power into mining, oil and gas operations, and other resource-intensive industries, significant advantages arise.

### Nauru Energy Sector Overview

The 2005 National Sustainable Development Strategy (NSDS) and the 2009 Energy Policy Framework both state Nauru's aim to make 50%

of energy provided through renewable energy by 2015. Solar resource measurements show an average of over 6 kWhr/m<sup>2</sup>/day with a seasonal variation of around 10-15%. A solar pre-feasibility study has shown that up to



## Nauru Energy Sector Summary Report

With the decline of its phosphate resource, Nauru remains in a difficult transitional stage between extraordinary national wealth and a return to the resource-poor situation faced by so many small Pacific island nations. In the energy sector, Nauru is

## solar systems

Smart Energy Council Conference - Brisbane September 14th Visiting the stands of some of the inverter and solar panel manufacturers to see what is new and exciting and to attend some of the informative networking and technical workshops from guest speakers / industry professionals.



## Resource Energy

Resource Energy is here to work with you every step of the way to provide expertise, minimize and mitigate your risks, reveal profitable opportunities, and simplify energy management. How We Help. Our Services. Energy Procurement. Your company needs more than a one-size-fits-all energy services firm. Let us customize a unique energy strategy

## Industries

Since 2008 members of the Resourceful Energy team have been delivering renewable solutions in solar across Australia to all the major industry. Mining & Resources. Commercial. Solar energy also provides a reliable backup power source during outages, ensuring business continuity and mitigating financial losses. In all these sectors, solar



## Maintenance & Support

Resourceful Energy takes immense pride in delivering top-notch quality assurance support to its customers. We understand that investing in a solar PV system is a significant decision, and we are dedicated to ensuring that our customers receive the ...

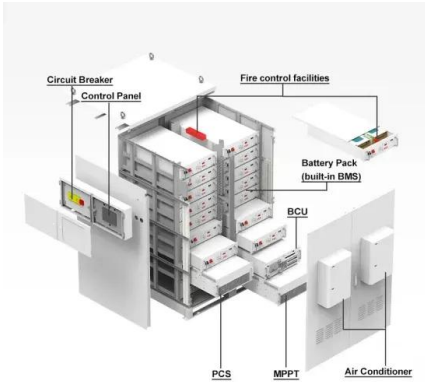
## Energy Division , Department of Climate Change and National ...

We are currently overseeing the installation of a 6MW ground mounted solar farm which will be in operation by the end of 2023, improving Nauru's Renewable Energy production from 12% to 48%. Our goal is to reach 100% Renewable Energy production by 2030.



## Partners

Resourceful Energy. Solar energy made easy. Menu. Header Search. Search site Submit search. About; Industries. Mining & Resources; Residential; Commercial; Solutions. Off Grid; The correct selection of solar PV is crucial for your



home or business as it ensures optimal energy production, long-term cost savings, and a sustainable energy

## EV Charger - Corinda

David called Resourceful Energy because he had just been informed that his new Polestar Electric Vehicle was only a few weeks away from being delivered. Resourceful Energy were able to wire in an Occular Universal Charger from EVSE. Giving David room to breath knowing he was prepared for the cars arrival.

### DETAILS AND PACKAGING



## Resourceful Energy - Nundah - 12.5kWp

Resourceful Energy were then able to add an extra 7.4kW of new panels onto one MPPT channel of their Inverter and re-wire their old 5.1kWp array onto the second MPPT channel. Brisbane Mobile tyres can now charge their Tesla EV guilt free from Solar PV Power produced direct off their workshop roof, they are delighted with this additional power.

## Energy Division

SMARTEN is a 4-year project funded by GEF to enable the increased applications of renewable energy (RE) and energy efficiency (EE) technologies for supporting development in Nauru in accordance with the country's energy roadmap targets. This project is expected to reduce 1.049 Mil Metric Tons of CO2 over its

lifetime. What are SMARTEN's goals?



## Supporting mainstreamed achievement of roadmap targets on energy in Nauru

The Government of Nauru has set three ambitious energy targets in the Nauru Energy Road Map 2014 - 2020 and following updates, respectively: 24/7 grid electricity supply with minimal interruptions; 50% of grid electricity supplied from renewable energy sources and



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## Maintenance Services

Resourceful Energy offers a wide range of maintenance services to keep your system operating at optimum levels. If you have any concerns whether your system is working properly our maintenance inspections could be helpful for you. Alongside our standard maintenance services, we can also offer solar

panel cleaning and also the installation of



## Project to support the achievement of Nauru's National Energy ...

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