## **SOLAR PRO.** Kiribati sun power gen systems

## Does Kiribati have a solar power system?

Kiribati's outer islands are served largely with solar home systems, and Kiritimati island, the second largest load center (1.65 GWh in 2016), has a separate power system not managed by the PUB. 6. Constrained renewable energy development and lack of private sector participation.

### Should solar PV be deployed in Kiribati?

The findings of this roadmap show that power sector is a key area, where the ongoing efforts from the deployment of solar PV should be continued and complemented with and improvement of efficiency in Kiribati's entire energy system, including electricity use, heating, cooling, and transport.

### How much power does Kiribati have?

The PUB serves more than 57,000 people in South Tarawa, which has the highest demand at 24.7 gigawatt-hours (GWh) in 2019. Kiribati's outer islands are served largely with solar home systems, and Kiritimati island, the second largest load center (1.65 GWh in 2016), has a separate power system not managed by the PUB. 6.

## What is the Kiribati energy roadmap?

The KIERis Kiribati's comprehensive energy roadmap, which takes into account renewable energy and energy efficiency potential in all sectors from 2017 to 2025.

## Does Kiribati need electricity?

As a small,remote island state, Kiribati is highly dependent on imported energy supply. Electricity is one of the government's largest expenditures. Yet the current fossil fuel-based power system is inadequate to meet future demand.

## What is Kiribati's energy consumption?

Primary energy demand. Kiribati's energy consumption, which is dominated by imported fossil fuels (52%) and coconut oil (42%), has been steadily increasing over the last few years. The residential sector is the largest consumer of energy, followed by land transport.

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equipment, lifts, escalators, boilers, central kitchens, automatic washing equipment, electric generators, water

pumps, tower cranes...etc.

5. PUB"s diesel generation system on South Tarawa has low efficiency and incurs high cost of repairs and

maintenanceand large capital replacements on top of the high cost of fuel shipments. Due to lack of back up generation assets, PUB regularly conducts load shedding to cope when catastrophic events, such as generator

failures, occur.

The Southern Cross NEXT cable system is supplied by ASN. The solution includes ASN's submarine WSS

ROADM units, the latest generation of repeaters and will offer high performance and powering resilience,

enabling over 72Tbps transmission capacity.

A successful solar home system (SHS) programme should be supported and expanded, the report says.

Looking to address challenges at the local level, the roadmap recommends solar desalination in South Tarawa;

a ...

Kiribati: 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. ... These figures reflect electricity generation,

which is one component of total energy consumption. People often use the terms "electricity" and "energy"

interchangeably ...

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