

# **Tuvalu Power Energy Storage Project**





## Overview

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In 2007, Tuvalu was getting 2% of its energy from solar, through 400 small systems managed by the Tuvalu Solar Electric Co-operative Society. These were installed beginning in 1984 and, in the late 1990s, 34% of families in the outer islands had a PV system (which generally powered 1-3 lights and perhaps a few hours a day of radio use). Each of the eight islands had a medical centre.

What is the Tuvalu solar power project?

The Government of Tuvalu worked with the e8 group to develop the Tuvalu Solar Power Project, which is a 40 kW grid-connected solar system that is intended to provide about 5% of Funafuti's peak demand, and 3% of the Tuvalu Electricity Corporation's annual household consumption.

How TEC is powering Tuvalu with renewable resources?

TEC has set a vision of "Powering Tuvalu with Renewable Resources" and this aligns well with the Tuvalu Government's target of 100% renewable energy by 2025. All the islands of Tuvalu are on 24/7 power supply and the access rate is 100%. The outer islands are powered by hybrid solar PV system with diesel generator on standby.

What is Tuvalu doing with the ADB?

Tuvalu, an island country midway between Hawaii and Australia, has commissioned a new solar and storage project with the ADB, featuring a 500 kW on-grid solar rooftop array and a 2 MWh BESS in the capital, Funafuti. "The project is under the Pacific Renewable Energy Investment Facility and has a \$6 million support.

Where does Tuvalu electricity come from?

Tuvalu's power has come from electricity generation facilities that use imported diesel brought in by ships. The Tuvalu Electricity Corporation (TEC) on the main island of Funafuti operates the large power station (2000 kW).

What was the first large scale solar system in Tuvalu?



The first large scale system in Tuvalu was a 40 kW solar panel installation on the roof of Tuvalu Sports Ground. This grid-connected 40 kW solar system was established in 2008 by the E8 and Japan Government through Kansai Electric Company (Japan) and contributes 1% of electricity production on Funafuti.

What is ADB's new solar project in Tuvalu?

“The project is under the Pacific Renewable Energy Investment Facility and has a \$6 million support. It is ADB’s first for Tuvalu’s energy sector,” the ADB said in a statement. “The project also installed solar PV in the outer islands of Nui, Nukufetau, and Nukulaelae.”



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### Renewable energy in Tuvalu

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