

# **Small-scale solar power generation system in Tuvalu**



## Overview

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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 much energy does Tuvalu use a year?

Like many Small Island Developing States (SIDS), Tuvalu has been heavily reliant on imported fuel for its diesel-based power generation system. Through this new FSPV system 174.2 megawatts per hour of electricity will be generated each year, meeting two percent of Funafuti's annual energy demand.

Does Tuvalu need solar energy?

In response, Tuvalu has prioritized renewable energy as a dual strategy for mitigating emissions and adapting to climate impacts. Solar energy, in particular, is well-suited to Tuvalu's tropical climate, which offers abundant sunlight throughout the year.

Why does Tuvalu need a diesel generator?

Historically, Tuvalu has relied heavily on diesel generators for electricity, a system that is both costly and environmentally unsustainable. The high cost of imported fuel places a significant burden on the national budget, diverting resources from other critical areas such as healthcare and education.

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The e 8, through the Tuvalu Solar Power Project, the island state's first grid-connected solar power system, provided the expertise and financial support to help trigger such a shift towards ...

What is the energy sector development project for Tuvalu? The objective of the Energy Sector Development Project for Tuvalu is to enhance Tuvalu's energy security by ...

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The report describes an e8-funded small-scale solar power system project in Tuvalu together with lessons learned and success factors. The e8 comprises of 10 leading electricity companies ...

The micro-grid component of the project aims to improve energy access in outer island communities. Small-scale solar and battery systems can reduce the need for regular fuel ...

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