

# Tuvalu New Energy Power Supply



## Overview

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Renewable energy in Tuvalu is a growing sector of the country's energy supply. Tuvalu has committed to sourcing 100% of its energy from renewable sources. This is considered possible because of the small size of the population of Tuvalu and its abundant solar energy resources due to its tropical location. It is somewhat complicated because Tuvalu consists of nine inhabited islands. The Tuvalu National Energy Policy (TNEP) was formulated in 2009, and the Energy Strategic Action Plan defines and directs current and future energy developments so that Tuvalu can achieve the ambitious target of 100% renewable energy for power generation by 2020. [1] The program is expected to.

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The Tuvalu Electricity Corporation (TEC) wishes to inform all residents that temporary power shedding will be implemented across affected areas due to a shortfall in available generation capacity. Recent technical challenges and scheduled maintenance have reduced the output of our power generation.

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Tuvalu is making significant strides in its renewable energy sector, with new projects aimed at reducing reliance on imported fossil fuels and combating climate change. In May 2024, the government celebrated a major milestone with the completion of a substantial solar farm on Funafuti, the main island.

In 2015, the United Nations established 17 Sustainable Development Goals (SDGs), with goal seven aimed at ensuring "access to affordable, reliable, sustainable, and modern energy for all." Behind this goal lies the widespread issue of energy poverty, or the lack of access to reliable and clean.

Currently, there is an existing 50m3/day desalination RO plant in Funafuti and an additional three units of mobile RO plants servicing the outer islands in times of dry spells. The amount of water supply is insufficient for the populace. The project aims to alleviate the situation by increasing the.

Tuvalu is a small island nation located in the Pacific Ocean, known for its vulnerability to climate change, particularly rising sea levels. With a total land area of just 16 square miles and a population of approximately 11,733, Tuvalu faces significant challenges in ensuring its sustainability. How TEC is powering Tuvalu with renewable resources?

TEC has set a vision of “Powering Tuvalu with Renewable Resources” and this align well with the Tuvalu Government set 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.

Does Tuvalu have solar power?

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. For the main island of Funafuti there are some solar PV systems tied to the grid with diesel base load generators.

Is Tuvalu A good place to invest in wind power?

Beyond the solar farm, Tuvalu is also exploring wind energy opportunities. Preliminary assessments on several outer islands are underway to determine the feasibility of wind power. These efforts are part of a broader strategy to diversify Tuvalu's renewable energy sources, ensuring a stable and reliable electricity supply.

What is the Tuvalu national energy policy (TNEP)?

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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).

Does Tuvalu have biomass?

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. Tuvalu: How much of the country's electricity comes from nuclear power?

Nuclear power – alongside renewables – is a low-carbon source of electricity.

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