

SolarTech Power Solutions

Tonga Energy Storage 2025



Overview

Can Australia help secure Tonga's outer island energy needs?

Australia also has a long history of engagement in relation to helping secure Tonga's outer island energy needs. In the early 2000s, Australia funded the Ha'apai Outer Islands Electrification project (HOIEP), which involved the installation of diesel-powered generators and electrical reticulation on four islands in the Ha'apai group.

How many people have access to electricity in Tonga?

This means that little more than 30,000 people are spread across 35 islands, presenting acute issues in terms of the provision of modern infrastructure. At OIREP commencement, the ADB estimated that 89% of all households across Tonga had access to electricity.

Why is electricity so expensive in Tonga?

This has contributed to the Tongan economy and electricity consumers being exposed to high and volatile electricity prices due to fluctuations in the price of oil internationally. According to UK-based aggregate website Cable, Tonga's electricity is the 13th most expensive in the world, at an average cost of USD 0.35 per kilowatt hour (kWh).

How can oirep help Tonga's remote island communities?

However, significant needs and opportunities exist to further expand renewable energy systems on outer islands. Less tangible, but also important is the role played by OIREP in consolidating Tonga's social contract with remote island dwelling communities, by allowing for enhanced and more reliable access to electricity.

How did the oirep project impact Tonga?

The project achieved its proposed impact, in terms of helping Tonga reduce its dependence on imported fossil fuel for power generation with OIREP assets

estimated to have reduced diesel usage by 0.5 million litres annually. Central to the project outcome was the provision of on-grid and off-grid generation solar power at reduced cost.

How many people live in Tonga?

Just 36 of Tonga's islands are inhabited, with more than 70% of the total population residing on just one island – Tongatapu. This means that little more than 30,000 people are spread across 35 islands, presenting acute issues in terms of the provision of modern infrastructure.

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