

## SolarTech Power Solutions

# Tonga Large Energy Storage Cabinet Cooperation Model



## Overview

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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 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 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 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 did oirep work with Tonga Power Limited?

OIREP's on-grid work was always a matter of laying the foundations for further investment in renewables and enjoyed the ease of working through one

implementing partner – Tonga Power Limited – who were incentivised to help ensure the program succeeded given they will manage all on-grid assets post-project.

Why are climate adaptation measures so important in Tonga?

As one of the world's most climate vulnerable countries, climate adaptation measures are seen within the government and by the people of Tonga as being both urgent and of critical importance. This is based in three key factors.

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