

# **Tonga solar Panel Grid-connected Power Generation Project**





## Overview

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What is the Tonga solar project?

1. The project will construct and install solar power systems with a total capacity of 1.32 MWp on the outer islands of Tonga, and the existing grid network on the islands of Vava'u and 'Eua rehabilitated by TPL. (The rehabilitated grid network portions on Vava'u and 'Eua are expanded). 2.

How many MWp of power will be built in Tonga?

1. THE PROJECT WILL CONSTRUCT AND INSTALL POWER SYSTEMS WITH A TOTAL CAPACITY OF 1.32 MWp ON THE OUTER ISLANDS OF TONGA, AND THE EXISTING GRID NETWORK ON THE ISLANDS OF VAVAU AND EUA REHABILITATED BY TPL (THE REHABILITATED GRID NETWORK PORTIONS ON VAVAU AND EUA ARE EXPANDED). (Phase 1): The plants have been built and are operational.

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.



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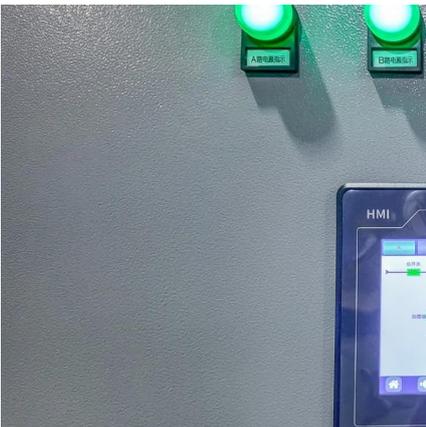


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### [Tonga : Outer Island Renewable Energy Project](#)

Jun 27, 2013 · The proposed Tonga Outer Island Renewable Energy Project (the Project) will construct grid-connected Solar Photovoltaic (PV) power plants on the outer islands of Tonga, ...

### [Australia s contribution to the multi-donor Tonga Outer ...](#)

Jul 31, 2024 · By this measure, the project fully delivered on its key first output, which in turn established a firm foundation for the project to achieve its intended outcome of 'provision of on ...



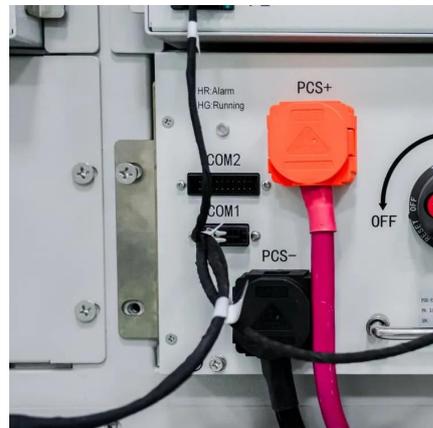
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May 28, 2025 · The system, part of the Tonga Renewable Energy Project (TREP), delivers 73.08kWp of solar energy, supported by a 1,313.28kWh battery storage system and a modern ...

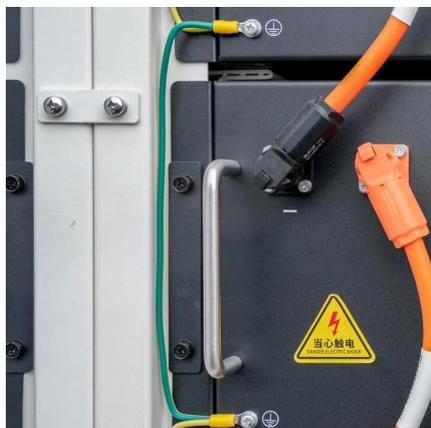


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The project also supplies nearly 70 percent of grid demand during peak hours. The project is a significant step in the country's efforts to address long-term energy security. By generating 866 ...



### [Energizing Remote Islands in Tonga with Mini-Grid Solar ...](#)

Jun 4, 2025 · Tonga Energy Background Current energy grids: Tongatapu, Vava'u, Ha'apai, Eua, and Niua Toputapu (recently turned to solar): powered by diesel generators Solo provider: ...



## [OIREP , Tonga Power Limited](#)

The Tonga Outer Island Renewable Energy Project (OIREP) will construct Solar Photovoltaic (PV) power plants on 8 outer islands. The "on-grid" portion will be allocated to Ha'apai and 'Eua, ...



## [SUBMITTED TAP Mitigation Tonga 28 Jan 2025](#)

3 days ago · A consensus was reached to evaluate six specific technologies: on-grid solar (PV) systems, on-grid wind power system, energy efficient home appliances, EV battery vehicle, ...

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