



FTMRS SOLAR

Solar panels installed in Tonga to generate electricity





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.



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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, ...

Australia s contribution to the multi-donor Tonga Outer ...

Jul 31, 2024 · Led by the Asian Development Bank (ADB) and co-financed by Australia, the European Union, the Second Danish Cooperation Fund for Renewable Energy and Efficiency ...

Solar mini-grids power up remote Tongan islands

Jul 10, 2025 · The programme has introduced solar-battery hybrid mini-grids to several of Tonga's most isolated islands. A milestone was recently achieved on the northern island of ...

Renewable Energy in the Kingdom of Tonga; National ...

Feb 11, 2014 · A. Tonga Power System Overview Tonga's power generation and network is owned by a state owned enterprise, Tonga Power Ltd (TPL). TPL generate, distribute and ...

Local Solar Manufacturing: Powering Tonga's Energy Road ...

Oct 10, 2025 · Learn how local solar manufacturing aligns with the Tonga Energy Road Map. A strategic opportunity to boost energy security, create jobs, and build resilience.

Solar mini-grids power up remote Tongan ...

Jul 10, 2025 · The programme has introduced solar-battery hybrid mini-grids to several of Tonga's most isolated islands. A milestone was recently ...

Tonga Solar Demand Study

Nov 21, 2024 · The study revealed that while households and businesses are generally aware of solar technologies, they lack a deeper understanding of them and the associated installation, ...

Solar power changing lives on Hunga island

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 ...

Solar panels batteries Tonga

Why do we need solar power in Tonga? Renewables like solar are a significant means for Tonga to expand energy access, stabilize power grids as well as reduce pollution. Considering the ...

Energizing Remote Islands in Tonga with Mini-Grid Solar ...

Jun 4, 2025 · The per-unit cost of off-grid solar solutions can be two to three times that of grid-based electricity, given the high cost of equipment such as PV generators and batteries,



ENERGY PROFILE Tonga

Indicators of renewable resource potential Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity ...

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