

## European Solar Energy Storage

# Solar energy electricity Tonga



## Overview

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What is a solar farm & how can it help Tonga?

Producing energy since August this year, and providing power for up to 10,336 households, the Solar Farm is helping The Government of Tonga pursue its National Energy Roadmap plans to see up to 70% of Tongatapu's electricity generation sourced from renewables by the end of 2025.

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 shortage of solar expertise and finances for countries like Tonga, the role of independent power producers and the practice of PPA provide solid support to smooth the way for solar deployment.

Who are Sunergise New Zealand & Tonga Power Limited?

This solar project was completed under the partnership between Sunergise New Zealand Limited and Tonga Power Limited with support from the Asian Development Bank (ADB). Sunergise led the construction and meanwhile united local Tongan civil, mechanical and electrical sub-contractors to the team.

Where is Tongatapu solar farm located?

Prime Minister of Tonga today announced the official launch of the 6-MW power purchase agreement (PPA) based Tongatapu Solar Farm located at Fualu, Tongatapu, which has supplied electricity to over 10,336 households since August this year.

What does Sunergise's 6MW solar system mean for Tonga?

As Hu'akavameiliku, Prime Minister of Tonga said at the ceremony: "The successful completion of the Sunergise's 6MW Independent Power Producer solar generation system today, demonstrates the major role renewable energy

independent power producers play towards achieving our 70% target by [the] end of [the] year 2025."

What is Sunergise Tongatapu solar farm?

The Sunergise Tongatapu Solar Farm is the largest in the South Pacific. It was built as part of a power purchase agreement between Sunergise New Zealand Limited, a Todd Corporation solar company and Tonga Power Limited, with support from the Asian Development Bank.

## Solar energy electricity Tonga

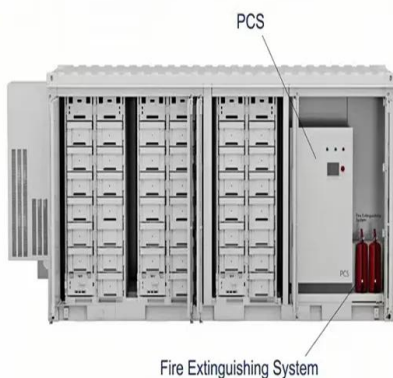


### Maama Mai Solar , Tonga Power Limited

The Maama Mai solar facility was commissioned in July 2012 by his Majesty King Tupou VI at Tonga Power Limited's Power Station at Popua. The project was funded by the NZ Aid Programme at a total of \$7.9 million NZD. the solar farm performed faultlessly producing an average of 1,880 MWh of energy per annum, saving the country around

### South Pacific's largest solar power plant opens in Tonga

The Solar Farm is capable of producing 6.9MWp of renewable power, helping lower power costs to Tonga and producing enough renewable energy to offset 18% of Tongatapu's current diesel-powered generation.



### La'a Lahi Solar , Tonga Power Limited

Solar , Vava'u, Tonga. La'a Lahi Solar Facility is the first solar farm to be constructed in Vava'u and the second to be operating in Tonga. The solar farm was commissioned in November 2013 and it was the first project to receive funding from the UAE. The solar facility is located next to Tonga Power's Power Station on Taumu'aloto

## Tonga's sustainable energy

## revolution: A new era of opportunity

The future of sustainable energy in Tonga looks brighter as the Validation Meeting for the National Certificate on Sustainable Energy for Energy Efficiency Level 3 was held at the Tonga National Qualification and Accreditation Board (TNQAB) office in Nuku'alofa on the 1st of September 2023. Stakeholders from the Tonga Power Limited, the Department of ...



## South Pacific's Biggest Solar Plant to Help Tonga Meet RE Target

"This solar plant will form an integral part of TPL's Renewable Energy Program--10-gigawatt hours, to be exact, which is equivalent to 15% of the whole of Tonga's anticipated electricity demand by 2020. It will contribute to lowering the cost of power and to Tonga producing at least 50% of its power from renewable sources by 2020

## Major Milestone Towards Renewable Energy Target with

...

'Ohonua, 'Eua Tonga (02nd March 2023) -- Tonga Power Limited (TPL) has commissioned a new solar and battery energy storage system in Eua, Tonga, with the financial support of the Government of Australia and the Asian Development Bank. The system includes a 350kW solar plant and a 1003kW/1856kWh battery energy storage system, which will



[Tonga Power Ltd. , Matangi Tonga](#)



A \$10 million pa'anga project to build the largest solar energy plant in Tongatapu, follows the signing of a long term Power Purchase Agreement between Tonga Power Ltd. and a Chinese power producer on September 12, 2016, for the construction and commissioning of a 2 Megawatt solar facility at at Mata-ki-'Eua, which is expected to be fully

## Battery Energy Storage Systems , Tonga Power Limited

Battery Energy storage systems will be able to store renewable energy generated from our existing solar and wind generation sites and distribute it to the people of Tonga when required. This second Battery Storage system main function will be load shifting which will facilitate increasing capacity of renewable generation in the grid by storing



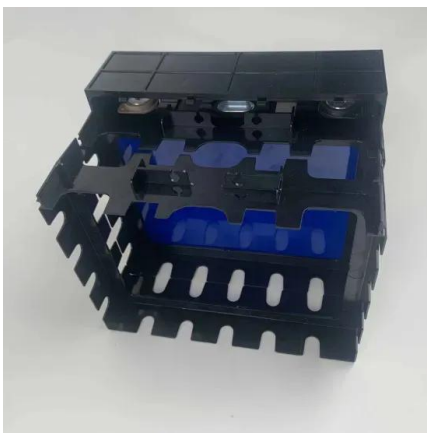
## Biggest solar power plant in South Pacific opens in ...

The Pacific region's biggest solar power plant has been opened in Tonga. Photo / Sunergise. Tonga is leading the way in renewable energy, with the launch of the largest solar farm in the South

## Tonga Power Limited (TPL) and JICA Join Forces to Strengthen Tonga...

This partnership continues JICA's history of supporting Tonga's energy sector, having previously facilitated the installation of solar and wind power generation systems on Tongatapu.

By addressing both technical and infrastructure needs, this project will enable Tonga to increase its reliance on renewable energy and move closer to its



## South Pacific's Largest Solar Farm Launched in ...

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## South Pacific's largest solar power plant opens in Tonga

Producing energy since August this year, and providing power for up to 10,336 households, the Solar Farm is helping The Government of Tonga pursue its National Energy Roadmap plans to see up to 70% of Tongatapu's electricity generation sourced from renewables by the end of 2025.



## Powering the sustainable development for our Kingdom

Tonga Power Limited is Tonga's sole electricity provider. We generate, distribute and sell electricity to more than 25,000 plus customers in the Kingdom of Tonga, including the outer islands of 'Eua, Ha'apai & Vava'u. such as wind power and solar power. and sustainable electricity services for Tonga with at least 50% of

## Overview of Tonga Power Limited

Tonga Power Limited's vision is to "Power the sustainable development for our Kingdom", ensuring they generate electricity that is clean, green and sustainable for the people, which is why they are working alongside the government in transitioning to Renewable Energy sources, such as wind power and solar power. Tonga Power Limited's



- ✓ 100KW/174KWh
- ✓ Parallel up-to 3sets
- ✓ IP Grade 54
- ✓ EMS AND BMS

## 'Eua & Vava'u Solar & BESS , Tonga Power Limited

TREP 03 Lot 1- 350kW solar PV facility and 400kW/900kwh BESS at 'Eua, 300kW solar PV facility and 900 kW/450 kWh BESS at Vava'u The component is leading by Tonga Power Limited. A component to install solar PV facility and Battery Energy Storage System in 'Eua and Vava'u. It is still in its design stage.

## New solar powered electricity for residents of 'O'ua

This week, people of the island of 'O'ua marked a milestone with the successful installation of its solar PV mini-grid to provide residents with 24-hour electricity making it the second island in Tonga to run 100% renewable energy all day, everyday.



## 6MW IPP Project , Tonga Power Limited

NUKU'ALOFA, TONGA (21 March 2019) -- The



largest solar plant in the South Pacific will be built in Tonga through the country's second commercially financed public-private partnership (PPP) after an agreement was signed in Nuku'alofa today. Tonga Power Limited (TPL) signed the power purchase agreement with Sunergise New Zealand Limited (Sunergise), which will ...

## Tonga's Largest Solar Power Facility Commences ...

Tonga's King Tupou VI officially commissioned Matatoa Solar Farm last week, another step towards the Kingdom achieving its renewable energy goal. Consisting of 7,440 solar panels, the 2-megawatt facility is expected to ...



## South Pacific's Biggest Solar Plant to Help Tonga Meet Renewable Energy

Spread over three sites, the solar plant will be the second biggest in the Pacific and the second that TPL has established with an independent power producer. "This solar plant will form an integral part of TPL's Renewable Energy Program--10-gigawatt hours, to be exact, which is equivalent to 15% of the whole of Tonga's anticipated

## TONGA: National Renewable Energy Policy

Empower the MLSNR with the responsibility of regulating the renewable energy industry in Tonga except for electricity produced from renewable energy sources which will be

regulated under the provisions of the Tonga Electric Power Board Act.---Establish an incorporated solar energy committee for each island district.



## **Tonga commits to achieve 70% renewable energy target by 2030**

Nuku'alofa - January 14, 2021: 9.45am (Enviro News): Tonga is accelerating its efforts to achieve the 70% clean energy target by 2030, with solar power as the key driver. The Department of Energy under the Ministry of MEIDECC is collaborating with development partners to monitor ongoing projects and implement new programmes to help the country reach its ambitious targets.

## [Our Projects , Tonga Power Limited](#)

Tonga Power Limited is currently undertaking renewable energy projects, network upgrade projects as well as Battery Energy Storage projects which all contribute to ensuring Tonga Power provides power that is sustainable, reliable and safe for the people of Tonga. Learn more about our projects plans and progress by clicking the links below.



## [Tonga Electricity Statistics](#)

See also: Tonga Energy. Electricity Generation in Tonga Tonga generates 52,000 MWh of electricity as of 2016 (covering 108% of its



annual consumption needs). Non Renewable (Fossil Fuels) Solar 0 MWh (0.00%) Tide & Wave 0 MWh (0.00%) Biomass & Waste 0 MWh (0.00%) Electricity Consumption in Tonga.

## Tonga's Largest Solar Power Facility Commences Operations

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## 6MW IPP Project , Tonga Power Limited

6MW Solar Project is an Independent Power Purchase Agreement between Tonga Power and Sunergise Ltd, to produce power and sell back on an agreed buying rate per unit by TPL. This IPP Agreement is a 25 yrs deal. There is no battery storage setup attached to this project. It is only rely on its day to day generation and injected to Tonga Power grid.

## Climate Change - Climate Change

The Honorable Prime Minister Hu'akavameiliku of the Kingdom of Tonga delivered a powerful statement today at the 29th Conference of the Parties (COP29) to the United Nations Framework Convention on Climate Change in Baku,

Azerbaijan. Participants also visited the Popua Power Station Solar PV and Battery Energy Storage System (BESS) in



## FP090: Tonga Renewable Energy Project under the Pacific Islands

Shifting electricity production in Tonga to a low-carbon, climate resilient path. Tonga is the second most climate vulnerable country in the world. Like many other Small Island Developing States in the Pacific, Tonga's energy source is almost exclusively imported diesel. It accounts for 90 percent of its electricity generation.

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