

Where does Tuvalu electricity come from?

Tuvalu's power has come from electricity generation facilities that use imported diesel brought in by ships. The Tuvalu Electricity Corporation (TEC) on the main island of Funafuti operates the large power station (2000 kW).

What information does the Tuvalu Electricity Corporation provide?

The Tuvalu Electricity Corporation shall inform the Renewable Power Plants owners/operators of the highest and lowest short-circuit current that can be expected at the point of connection to the grid as well as any other information about the network as may be necessary to define the Renewable Power Plant's protection functions.

How TEC is powering Tuvalu with renewable resources?

TEC has set a vision of "Powering Tuvalu with Renewable Resources" and this aligns well with the Tuvalu Government's target of 100% renewable energy by 2025. All the islands of Tuvalu are on 24/7 power supply and the access rate is 100%. The outer islands are powered by hybrid solar PV system with diesel generator on standby.

What is the Tuvalu solar power project?

The Government of Tuvalu worked with the e8 group to develop the Tuvalu Solar Power Project, which is a 40 kW grid-connected solar system that is intended to provide about 5% of Funafuti's peak demand, and 3% of the Tuvalu Electricity Corporation's annual household consumption.

What is the Tuvalu national energy policy (TNEP)?

The Tuvalu National Energy Policy (TNEP) was formulated in 2009, and the Energy Strategic Action Plan defines and directs current and future energy developments so that Tuvalu can achieve the ambitious target of 100% renewable energy for power generation by 2020.

How much power does the Tuvalu utility network need?

Most recent information on the Tuvalu network indicates a maximum demand of around 1300 kW, and the minimum demand is around 750 kW². The data made available for the power system studies of the Tuvalu utility network on Funafuti is assumed based on the given SLD and other information provided by TEC.

The network single line diagram (SLD), illustrated in Figure 2-1, shows the power station feeding the various loads on the island, and the renewable generation connections.

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