



Tonga solar Panel Grid-connected Power Generation Project





Overview

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, thereby demonstrating a method for reducing the country's heavy reliance on imported fossil fuels for power.

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Tonga Energy Road Map 2010 launched as a 10-year plan focused on reducing Tonga's vulnerability to oil price fluctuations and improving access to modern energy services, and achieving environmental sustainability. National Energy target by 2020, 50% of renewable energy (Solar and Wind) share on.

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Tonga is making tangible progress toward its renewable energy targets with the rollout of solar-powered mini-grid systems across its outer islands, in a bold move to reduce its dependence on expensive diesel imports and improve electricity access for remote communities. Currently, around 91 per.

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, while the "off-grid" portion will incorporate 'Uiha, Nomuka, Ha'ano, Ha'afeva, as well as Niuatoputapu and.

Special thanks go out to Seti Chen, OIREP PMU Manager and also Simon Wilson (TREP PMU manager) who were both informative and demonstrative of the very close connection and complementarity that exists between these two projects. Simon Wilson at the Australian Pacific Climate Partnership provided.

Masdar delivered the first large-scale renewable energy project on the island of



Vava'u in the Kingdom of Tonga. The 512-kilowatt solar photovoltaic power plant produces enough energy to meet 17 percent of Tonga's annual electricity demand. The project also supplies nearly 70 percent of grid demand.



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OIREP , Tonga Power Limited

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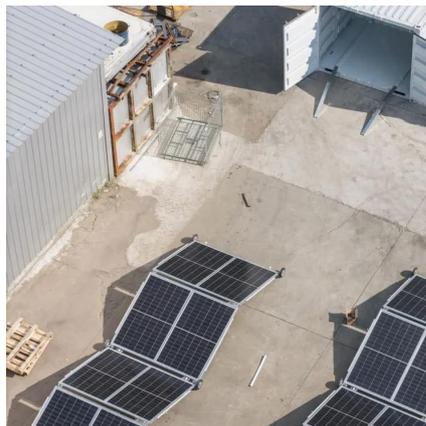
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Tonga : Outer Island Renewable Energy



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

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-grid and off-grid ...

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