



Samoa heya solar

What is solar for Samoa?

The Solar for Samoa project set the benchmark for quality solar power projects in the South Pacific. The two sites will provide up to 27% of the network power during peak output. MPower has successfully delivered a wide range of renewable and conventional power systems across the region.

How much power does Samoa have?

Samoa's total renewable electricity capacity is 31.61 MW. Overall, hydro power plants account for 15.64 MW (or 50%), solar accounts for 14.67 MW (or 46%), wind contributes for around 0.55 MW, while biomass accounts for approximately 0.75 MW. Upolu Island has a total renewable electricity capacity of 30.88 MW, compared to Savaii and Apolima Island's respective capacities.

Which energy sources are used in Samoa in 2022?

Electricity Sources in 2022: The Electric Power Corporation (EPC), as the sole provider of electricity in Samoa, currently utilizes electricity generated from the renewable assets including those produced by Independent Power Producers (IPP). The Samoa Energy Database has recorded up to 22 community-based biogas systems.

What is Samoa's energy plan?

The plan will address Samoa's energy issues, promote sustainable energy development, ensure long-term energy security, economic growth, and enhance energy efficiency to reduce the country's dependence on fossil fuels, minimize environmental impact, and create new opportunities for innovation.

What is the energy sector in Samoa?

The energy sector in Samoa is currently undergoing a significant transformation as the country is transitioning towards sustainable, affordable, and reliable energy supply. The SESP 2017 - 2022 comprised five (5) sub-sectors, (i) Renewable Energy, (ii) Electricity, (iii) Transport, (iv) Petroleum and (v) Institutions.

Why is energy development important in Samoa?

Energy development is important for Samoa as it enables sustainable energy development. By optimizing energy production and consumption, island countries like Samoa can not only improve their energy security but also reduce their carbon footprint and protect the planet's natural resources for future generations. Samoa faces unique energy challenges, including vulnerabilities that demand a strategic approach.

In an effort to achieve the renewable energy targets for Samoa, EPC seeks to implement two additional Solar & BESS Renewable Energy Generation Facilities (REGF's). To this end, EPC is now soliciting EOI's from suitably qualified Independent Power Producers.



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Figure 1-1 Samoa's Installed Power Capacity (MW) in 2022 Renewable Energy Status As of 2022, total installed capacity of the renewable energy plants in Samoa was 31.61 MW. Overall, hydro power plants account for 15.64 MW (or 50%), solar accounts for 14.67 MW (or 46%), wind contributes for around 0.55 MW, while biomass is approximately 0.75 MW.

About Solar for Samoa. MPower was awarded a contract to deliver a fully operational 5.0MW solar power station across two sites in Samoa. The first site at Faleolo International airport has a 3MWp solar PV ground mount system. The second site at Faleata Race Track has a 2MWp solar PV group mount system.

ADB has signed a transaction advisory services agreement with Samoa's Electric Power Corporation (EPC) to support the development of a solar photovoltaic and battery energy storage systems with installations planned for ...

Also in American Samoa, Mana Solar LLC plans to use a \$23.5 million investment to develop a 13.4-megawatt community solar and battery energy storage system. This will provide power to approximately 2,500 households on Tutuila Island, meeting nearly 12% of their energy needs with renewable energy. These projects will help the American Samoa ...

One of the most promising renewable energy sources in Samoa is solar power. The country enjoys abundant sunshine, with an average of 2,800 hours of sunlight per year. This makes solar energy a highly viable option for electricity generation.

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The project contributes to PIGGAREP Greenhouse Gas Abatement goals of CO2 emissions reductions of at least 30% by 2015 as compared to their Business as Usual scenario, and to the Government of Samoa's goals of increasing renewable energy's share of total energy production to 20% by 2030.

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Despite generating more than seven megawatts of power and being hailed as an answer to blackouts, Samoa's solar power plants are unable to steer the country through its electrical state of emergency.

The Solar for Samoa PV project is situated over two locations; Faleata Racecourse (1.4MW AC) is located in the capital city of Apia, while Faeolo International Airport (2.1MW AC) is located approximately 40



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kilometres west of Apia.

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