Solar project cost breakdown American Samoa

How much does electricity cost in Samoa?
Average U.S. and American Samoa Electricity Prices (2022) ASPA rates are down slightly as of January 2024--approximately $0.41/kWhfor residential and commercial customers and $0.38/kWh for industrial customers. ASPA's total energy rates include a renewable energy flat rate charged at $0.002/kWh across all service types (ASPA 2024).

Is American Samoa a renewable country?
American Samoa's energy sector relies almost entirely on imported fossil fuels,although renewables represent a small but growing power system contribution. The territory possesses substantial solar energy resources,as well as wind and biomass resource potential.

How does American Samoa generate electricity?
Some of its islands generate electricity from solar energy. 5,6 Pago Pago,one of the deepest natural harbors in the South Pacific,is among the territory's most important assets. It receives the imported petroleum products that American Samoa depends on to meet almost all of its energy needs. 7,8

What percentage of American Samoa's electricity generating capacity is solar?
Solar power accounts for about 11%of American Samoa's electricity generating capacity.

Does Samoa have an emergency energy conservation plan?
1979: The U.S. "Emergency Energy Conservation Act of 1979" requires the submission of an emergency energy conservation plan by each state or territory (Public Law 96-102,as amended). American Samoa adopted its Emergency Energy Conservation Plan in 1982(see Chapter 5,Annex A of ASCA 12 for plan details).

Why are electricity prices spiking in American Samoa?
Electricity prices in American Samoa are subject to global commodities market fluctuations and fuel surcharges. The average price of electricity to ASPA end-use customers in cents/kWh decreased from 2012 to 2021 before spiking in 2022 due to an increase in global fuel prices(EIA 2023c).

Understanding the Costs. Homeowners in American Samoa looking to switch to solar panels for their residential property should be aware of the costs involved. The good news is that depending on how much energy needs to be generated, there are several options available.

The American Samoa Power Authority (ASPA) is the territory"s public utility and provides electricity, water, wastewater, and solid waste services to over 12,000 customers. The energy policy landscape in American Samoa constitutes a blend of multilateral agreements,

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American Samoa is less than 1,000 miles south of the equator and has abundant solar energy resources. 63,64 In 2021, solar power accounted for about 11% of American Samoa"s electricity generating capacity and about 3% of its electricity generation. 65,66 In 2016, ASPA completed conversion from diesel-powered to solar photovoltaic (PV ...

meet 50% of American Samoa"s energy needs from renewable resources by 2025 and 100% by 2040. However, as of 2023, only around 3% of American Samoa"s energy needs are being met by renewable resources. The other 97% of American Samoa"s energy needs are provided for via imported diesel fuel that is used to power generators.

Now, the island runs on a completely renewable microgrid that meets 100% of residents" energy needs through solar power and battery storage. In 2016, the founders of Maui, Hawaii-based company Mana Pacific helped design and implement Ta"u"s solar-energy microgrid composed of over 5,300 solar panels.

In 2022, the average electricity price for residential customers in American Samoa was approximately 45 cents/kilowatt-hour (kWh)--almost three times the U.S. average of 15 cents/kWh. 2 Renewable energy represents a small but growing power system contribution, although American Samoa relies almost entirely

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country"s land area in each of these classes and the global distribution of land area across the classes (for comparison).

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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 kilometres west of Apia.

In this report, they found the average total installed cost of PV systems has fallen from around USD $12/W in 2008 to $3/W in 2018. Key factors affecting installed costs include scale, location, and footing type (rooftop, concrete or piled), as well as the need for fencing, civil works and any requirements to bring in sand and repair/upgrade ...

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