



10kva solar power plant cost U S Virgin Islands

How much of the US Virgin Islands' electricity is generated by solar?

In 2020, about 20% of the US Virgin Islands' electricity was generated by renewables. Approximately 80% of this renewable capacity came from customer-installed, small rooftop solar panel systems, while the remaining 20% came from utility-scale solar energy facilities.

What is the average price of electricity on Virgin Island?

The average price of electricity for US Virgin Islands residents was approximately 41 cents per kilowatt-hour in early 2022. This was almost three times higher than the U.S. average power price of 15 cents per kilowatt-hour.

What is the primary source of energy in the USVI?

In the USVI, about 70% of all energy is provided by imported petroleum products, with 28 Distillate fuel oil and residual fuel being the main contributors. These petroleum products are primarily used for electricity generation and the production of drinking water supplies.

How much electricity does St. Thomas Island have?

The St. Thomas electric system, with about 175 megawatts of generating capacity, supplies electricity to St. Thomas, as well as both nearby St. John Island and Water Island, by underwater cables.

Why should the US Virgin Islands own solar assets?

The US Virgin Islands should invest in solar assets for enhanced portfolio diversification and risk mitigation. WAPA ownership guarantees coverage by WAPA and FEMA during natural disasters, eliminating uncertainties (1. Enhanced Portfolio Diversity: WAPA diversifies its energy portfolio, ensuring a more resilient and sustainable future).

Do you need a solar water heater in the Virgin Islands?

Since 2009, new construction and major renovations in the Virgin Islands have required solar-powered water heaters to provide 70% of a building's heated water needs.

The solar-plus-storage system is expected to fulfill 30% of the islands' energy consumption needs. According to the Department of Energy (DOE), the U.S. Virgin Islands have heavily relied on fossil fuels to generate electricity in the past. This means residents accrued expensive electricity costs that fluctuated with global oil prices.

Government House and the V.I. Water and Power Authority recently announced a venture designed to lower energy costs. The plan revolves around the creation of six solar parks, coupled with battery storage systems across the territory.



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This visionary partnership is set to transform the energy landscape of the US Virgin Islands through the deployment of cutting-edge Battery Energy Storage Solutions (BESS) across six strategically positioned solar parks. The ...

The power purchase agreements would result in a cost of 12 cents per kilowatt hour (kWh) for the energy generated from wind, and 10.9 cents per kWh for power purchased from the solar farms.

Supplies 10,400 MWh of power through the Virgin Islands Water and Power Authority. Power provided to the local grid decreases the amount of fuel oil that needs to be burned to provide electricity. Reduced greenhouse gas emissions by 9,700 metric tons CO₂ equivalent per year.

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The VIEO believes that the new Virgin Islands Solar for All Program has the power to transform the territory's residential energy landscape, addressing residents' high electricity costs...

The U.S. Environmental Protection Agency will send \$62.45 million to the territory for residential community solar and power storage projects, federal officials announced Monday. Awarded through the Solar for All grant program, the funding is meant to allow the Virgin Islands Energy Office to develop long-lasting solar programs that enable low ...

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The U.S. Virgin Islands (USVI), part of the Leeward Islands of the Lesser Antilles, became a U.S. territory in 1917 and is located in the Caribbean Sea, about 1,100 miles southeast of Miami, Florida. 1,2 The USVI has no fossil energy reserves, but does have some renewable resources, particularly solar energy. 3,4,5 The USVI imports petroleum ...

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