



Solar power plant in 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.

Why is solar power important in the USVI?

The USVI's abundant solar resource, with a global horizontal irradiation of nearly 6 kWh/square meter-day, makes solar power economically attractive in the USVI.

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 St Thomas and St Croix have electricity?

As of late 2014, both St. Thomas and St. John were served by one electrical grid run by the Virgin Island Water and Power Authority (WAPA). St. Croix, however, has a separate electrical grid in the WAPA service area. More than 1,000 distributed renewable energy systems were connected to the WAPA grid.

What is the cost of electricity in the USVI?

The electricity rates in the USVI are \$0.47 per kilowatt-hour (kWh). This is higher than the Caribbean regional average of \$0.33/kWh.

How does oil affect the cost of electricity in the USVI?

The USVI, like many island nations, is heavily reliant on fossil fuels for electricity generation. This reliance leaves the USVI vulnerable to global oil price fluctuations, which directly impact the cost of electricity. Assumes an average electricity price of \$0.50/kWh and consumption of 767.4 gigawatt-hours (GWh).

4 · ST. CROIX -- Officials cut the ribbon at the Petronella Solar Farm on Tuesday, bringing a new wave of renewable energy to the island, which is experiencing rolling blackouts due

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 implications are monumental, with massive cost savings and a resounding commitment to decarbonization.

Honeywell Process Solutions has announced plans to install about 124 MWh of its battery energy storage



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systems alongside 140 MW of solar at six sites to help the US Virgin Islands cover 30%...

4 · Planned solar farms on St. Thomas and -- eventually -- St. John could bring that number up to \$400 million. "Right now, this power is 10.9 cents per kilowatt-hour," Loranger said. "If we can get federal funds to pay for it, it's ...

This profile provides a snapshot of the energy landscape of the U.S. Virgin Islands (USVI) - St. Thomas, St. John, and St. Croix. The Virgin Islands archipelago makes up the northern portion of the Lesser Antilles and the western island group of the Lee ward Islands, forming the border between the Atlantic Ocean and the Caribbean Sea.

4 · Planned solar farms on St. Thomas and -- eventually -- St. John could bring that number up to \$400 million. "Right now, this power is 10.9 cents per kilowatt-hour," Loranger said. "If we can get federal funds to pay for it, it's in the Virgin Islands" hands -- it'll go to zero. Now, look what you can do with the power price.

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The National Renewable Energy Laboratory (NREL) adds that the U.S. Virgin Islands also want to generate 30% of peak capacity from renewables by 2025. According to the DOE, the territory is well on its way to reaching these goals due to its growing portfolio of renewable energy projects that include:

4 · The Virgin Islands Consortium was founded in 2014 by Ernice Gilbert and covers U.S. Virgin Islands and Caribbean news, politics, opinion, business, entertainment, culture and much more.

The Virgin Islands Energy Office's successful selection of its Solar for All application has presented a historic opportunity for the territory to fast-track an equitable energy transition...

Knight said Petronella produces more power at a cheaper cost than producing the same energy with the island's fossil fuel generators at the Richmond power plant. "With the abundance of sun we get here on the Virgin Islands, Petronella can produce solar power for less than it costs us to produce that same energy with our fossil fuel generators at Richmond," Knight said.

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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