

Bonaire Sint Eustatius and Saba wind solar generator

Does Bonaire have a regulated electricity sector?

In recent years, the Ministry of Economic Affairs in the Netherlands has been active in reforming the regulation of the electricity sector in Bonaire, both in terms of utility regulation and expanding generator access.¹³

Are Bonaire and Sint-Eustatius honoured?

Late last week, the good news was received that the project proposals of Bonaire, Sint-Eustatius and Saba were honoured. They are the only islands in the Caribbean whose proposals made it through the selection.

Does Bonaire have a utility company?

The utility company for Bonaire is Water-En Energiebedrijf Bonaire N.V. (WEB), which supplies both water and electricity to the island. WEB is a government-owned entity and is strictly a distribution utility, owning no generation of its own.

How much does energy cost in Bonaire?

This profile provides a snapshot of the energy landscape of Bonaire, a special municipality of the Kingdom of the Netherlands located on the coast of Venezuela. Bonaire's utility rates are approximately \$0.35 per kilowatt-hour (kWh), above the Caribbean regional average of \$0.33/kWh.

Could biodiesel save Bonaire from global oil price fluctuations?

However, its plans to replace these fuels with biodiesel have the potential to insulate it from the global oil price fluctuations that directly impact the cost of electricity. The utility company for Bonaire is Water-En Energiebedrijf Bonaire N.V. (WEB), which supplies both water and electricity to the island.

Who regulates Bonaire?

As a special municipality of the Kingdom of the Netherlands, Bonaire is largely regulated by ministries of the Netherlands' national government.

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The solar park in Bonaire will consist of an impressive 10,816 solar panels that will be generating about 10 megawatts of electricity to the entire island. Estimates state that around 5,000 households will be powered by the new project.

A new solar farm and a new wind farm, plus a solar battery, run by electricity company Contour Global and the partly public company BBT (Bonaire Brandstof Terminals), supported by a subsidy from BBT. These works

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are planned to be finished by 2025, by which time about 80% of all electricity in Bonaire will be generated from sustainable sources.

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Apart from the hybrid wind-diesel-storage system, a pilot solar project was commissioned in March 2015 to study the effects of solar generation on Bonaire's electrical system and determine the feasibility of future "solar gardens" or distributed solar generation.¹⁷ Opportunities for Clean Energy Transformation

Bonaire, Sint-Eustatius and Saba are in the selected group of 30 islands that have been chosen by the European Union (EU) to take part in the "30 for 2030" project. The islands, which were selected after an extensive selection process, can count on intensive support from the EU to realise their ambition to have fully sustainable energy ...

Onshore wind: Potential wind power density (W/m²) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the global distribution of wind resources. Areas in the third class or above are considered to be a good wind resource.

This unique facility includes 28.5 MW of thermal generation, wind power contributing 11.1 MW, a modern Battery Energy Storage System (BESS) providing 14 MW, and a recently commissioned 5.3 MW Solar PV farm, culminating in a net peak capacity of 58.9 MW.

The three islands will each receive about US \$10 million for investments in renewable energy. St. Eustatius will build a third solar park, while for Saba the construction of a wind turbine is planned. Bonaire is looking at a combination of wind and solar energy.

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