

## **Bonaire Sint Eustatius and Saba solar diesel hybrid system**

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 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.<sup>13</sup>

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.

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.

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 off 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.

Who regulates Bonaire?

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

The performance of a hybrid PV-energy storage system on the Dutch Caribbean island Sint Eustatius exceeds expectations. The island utility plans to expand the plant and switch-off remaining diesel generators in the near future.

2004, Bonaire developed a plan to serve the island with 100% renewable energy from a single hybrid generating system. The first component of the hybrid system is an 11-MW wind farm, which consists of 12 Enercon E-44 turbines with a capacity of 900 kW each.<sup>14</sup> This model of turbine was chosen because

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Union (EU) to take part in the "30 for 2030" project for energy transition. The islands, which were selected after an extensive selection process, can count on intensive support from the EU to realize their ambition to have fully ...

System profile: St. Eustatius solar hybrid system. The vision of reducing St. Eustatius' dependence on fossil fuels was realized by the local electric utility company Statia Utility Company (STUCO), the highly committed team of engineers from SMA, SMA Sunbelt Energy and the Dutch Ministry of Economic Affairs.

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The challenge: Supply a smart combination of a 2 MWp PV farm and diesel generators; introduce the largest lithium battery storage system in the Caribbean; use the latest SMA products; and develop a new monitoring platform--within the space of just nine months.

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Bonaire, Sint Eustatius en Saba behoren tot het selecte gezelschap van 30 eilanden die door de Europese Unie zijn uitverkoren om deel te nemen aan het "30 for 2030" project. De na een uitgebreid selectieproces aangewezen eilanden kunnen rekenen op intensieve ondersteuning vanuit de EU om hun ambitie te realiseren uiterlijk in 2030 de ...

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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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Bonaire, Saba and Sint-Eustatius, together with the Dutch government, in 2024 will work on their own climate plans. The Dutch government will make 1 million euro available for this. This money is additional to the means that are ...

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