

Does Kitepower have an airborne wind energy system in Aruba?

Towards the end of November of last year, the Dutch sustainable energy start-up Kitepower proudly announced that it had been successful in deploying its Airborne Wind Energy System (AWES) in Aruba. The AWES Falcon 100kW, as it's called in its entirety, is an innovative system consisting of a ground station, tether, control unit and kite.

Where does Aruba get its electricity from?

Aruba currently gets 15.4% of its electricity from renewable sources. The island has sufficient renewable energy resource potential, with excellent technical potential for ocean, wind, and solar renewable energy generation.

What is the cost of electricity in Aruba?

The energy landscape of Aruba, an autonomous member of the Kingdom of the Netherlands located off the coast of Venezuela, is outlined in this profile. Aruba's utility rates are approximately \$0.28 per kilowatt-hour (kWh) (below the Caribbean regional average of \$0.33/kWh).

How much wind capacity does Aruba need?

Aruba's 30-MW wind project at Vader Piet currently produces 13% of Aruba's load requirements, with an additional 26.4 MW slated to come online in late 2015. WEB Aruba aims to add 3 MW to 6 MW to the biogas plant, with a goal of using 70% of household waste. Therefore, Aruba needs more wind capacity to meet its energy demands.

How much energy does Aruba consume annually?

Aruba has an annual consumption of 990 gigawatt-hours (GWh). Currently, about 13% of its generation comes from a 30-MW wind project and 0.9% comes from waste-to-energy (WTE) biogas. An additional renewable capacity of 34 MW is planned or in progress. Aruba's installed generation capacity is 230 megawatts (MW) with an average load of 100 MW.

Does Aruba aim for sustainable development?

Aruba has announced its commitment to sustainable development, as stated in the 2011 document titled "The Green Gateway". During the Rio +20 United Nations Conference on Sustainable Development in 2012, the country declared its goal to achieve 100% renewable energy use by 2020.

ABB on June 22 announced its "software, automation and control technologies will help WEB Aruba [the island's utility] integrate solar and wind energy, forecast and plan better and optimize operations in real-time,

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The deployment of the innovative wind energy system has been part of "Caribbean Engineer 2021

(CAEN21)&quot;, a military exercise carried out by the Dutch Defence near the area of Vader Piet ...

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