

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 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.

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.

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.

How many MW will Aruba's biogas plant use?

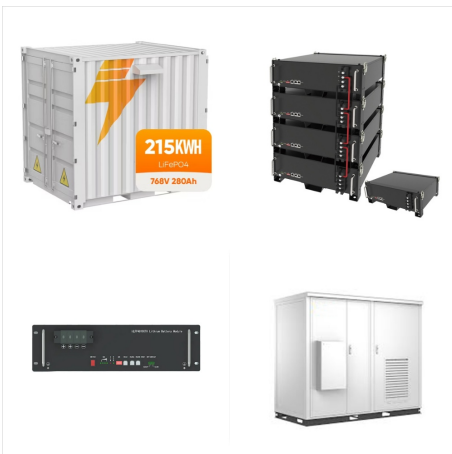
Aruba's biogas plant is hoping to add 3 MW to 6 MW of capacity with a goal of using 70% of household waste. Production data for a 3.5-MW airport solar project are not yet available, and an additional 6 MW of solar capacity is planned for the residential and commercial sectors.



The benefits of becoming 100% renewable for Aruba include: reducing its heavy dependency on fossil fuel, thus making it less vulnerable to global oil price fluctuations, drastically reducing CO<sub>2</sub> emissions, and ???



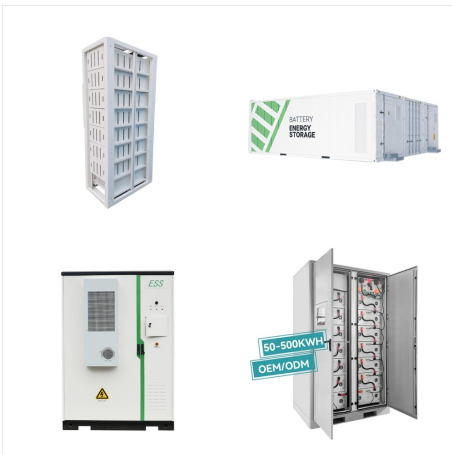
Targets Renewable Energy Energy Efficiency  
Transportation In Place Proposed Prepared by the National Renewable Energy Laboratory (NREL), a national laboratory of the U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy; NREL is operated by the Alliance for Sustainable Energy, LLC.



developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided



Aruba currently has a 30 MW wind project that serves 17 percent of its electric consumption, with another 26 MW wind farm on the way. Wind, solar, and energy storage, however, are normally paired with a smart electric grid that can reduce energy consumption at necessary times, or smooth out variations in power supply when the wind fails to blow



6 ? Web Aruba, renewable energy dashboard.  
Loading. webaruba . ARUBA's REALTIME  
RENEWABLE ENERGY MONITOR. Wind 0.00 MW.  
Solar 0.00 MW. Fossil Fuels 0.00 MW. Total power  
0.00 MW. Daily Carbon ???



The benefits of becoming 100% renewable for Aruba include: reducing its heavy dependency on fossil fuel, thus making it less vulnerable to global oil price fluctuations, drastically reducing CO<sub>2</sub> emissions, and preserving its natural environment.



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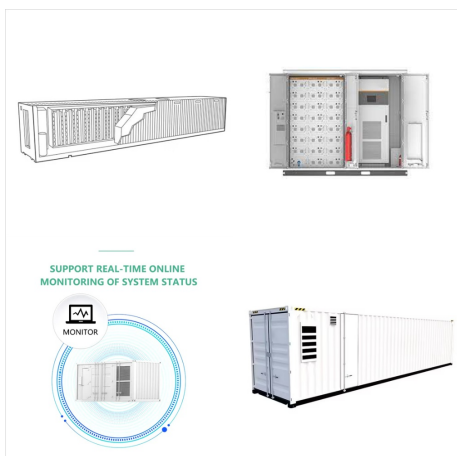
"With this MOU, ACCIONA Energia and the Government of Aruba embark on a collaboration to establish a renewable hydrogen ecosystem for Aruba that aims not only to transform local industries, but to also extend ???



6 ? Web Aruba, renewable energy dashboard.  
Loading. webaruba . ARUBA's REALTIME RENEWABLE ENERGY MONITOR. Wind 0.00 MW. Solar 0.00 MW. Fossil Fuels 0.00 MW. Total power 0.00 MW. Daily Carbon Footprint Reduction: 0 0 0 0 0 0. kg. YTD: 0 passenger vehicles off the road annually. Aruba's Renewable Energy. 00 % Wind energy on ???



"With this MOU, ACCIONA Energia and the Government of Aruba embark on a collaboration to establish a renewable hydrogen ecosystem for Aruba that aims not only to transform local industries, but to also extend the reach to the Caribbean region and beyond". A new era begins today for Aruba.



Energy Snapshot Aruba This profile provides a snapshot of the energy landscape of Aruba, an autonomous member of the Kingdom of the Netherlands located off the coast of Venezuela. Aruba's utility rates are approximately \$0.28 per kilowatt-hour (kWh), below the Caribbean regional average of \$0.33/kWh. While Aruba has made