



Sustainability action · Project Renewable Energy and Energy Efficiency

Aruba Wind Park, Caribbean Sea

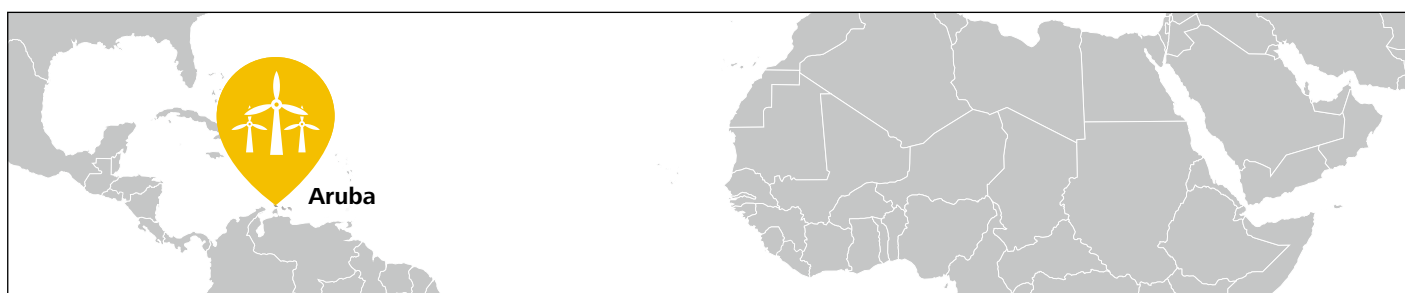
Pioneering wind power and strengthening the island's self-sufficiency

The wind park Vader Piet is located on the Dutch Caribbean island Aruba, north of the coast of Venezuela. The island relies heavily on the import of fossil fuels for its electricity supply. With an installed capacity of 30 MW, the wind park is estimated to supply 165 GWh of clean renewable electricity per year. Being the first of its kind in Aruba it can serve as an example that strengthens the self-sufficiency of the island and enables a more sustainable use of its resources.

Project

The project uses wind resources from the area to supply zero emission energy to the grid. According to the National Renewable Energy Laboratory (NREL), more than 80% of the island's electricity is generated using heavy fuel oil, resulting in high greenhouse gas (GHG) emissions and leaving the island vulnerable to global oil price fluctuations.

The annual electricity yield from wind is to supply up to 18% of the island's total average electricity demand. The wind park is expected to reduce emissions of greenhouse gases by an estimated 195,255 tCO₂e per year, during the fixed 10 year crediting period.



Location

The Wind Park Vader Piet is located on the Aruban east coast. Aruba is a Dutch island in the southern Caribbean Sea.

Project achievements

Socio-economic impact

- The project reduces the import of fossil fuels and strengthens the nation's energy security and self-sufficiency.
- It increases employment opportunities in the area where the project is located.
- The project enhances the local investment environment and therefore improves the local economy.
- It diversifies the sources of electricity generation, important for meeting growing energy demands and the transition from fossil fuel based electricity generation.

Environmental impact

- The project makes use of renewable wind energy resources for a sustainable energy generation, reducing air pollution and limiting environmental impacts. It is the first project of its kind in Aruba and presents a replicable clean energy technology.
- The project reduces GHG emissions, especially CO₂, by replacing energy from thermal power plants.



Checklist Project 301938

Commercial Operation Date

17 December 2009

Total capacity

30 MW

Estimated Annual Electricity Generation

165'000 MWh

Quality Assurance and Verification

Annual audit of GoldPower Accounting and Reporting Policy provided by PWC
Annual electricity verified by Earthood Services Private Limited

Transparency

RECs listed in GoldPower Register (<http://goldpower.net/goldpowerregister>)
Underpinning carbon credits retired in Gold Standard Market Registry

Marketing material

High-resolution pictures available

Reportability

Meets GHG Protocol Scope 2 Guidance criteria

GoldPower credentials projects certified by



GoldPower credentials reportable under



<http://www.thesouthpolegroup.com/sustainability-solutions/renewable-energy>

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