



# Empower your participation in energy markets

**ABB Ability™ Energy Management for sites -  
ABB OPTIMAX® for Virtual Power Plants**

aggregates and integrates decentralized energy generation, flexible loads, and storages systems to enable the cost-effective participation in energy markets.





### Control costs and regulatory requirements

Aggregates and dispatches decentralized generation resources (DERs) and monitors operations to control energy costs and , comply with emissions regulations and other reporting and trading capabilities



### Maximize trading opportunities

Enable maximized revenue from optimal participation through intelligent trading of surplus energy on wholesale energy markets using the forecasting, planning, and real-time optimization capabilities of this software.



### Expand into new markets

Expand into new markets and offer unique business models, based on our flexible architecture, which provides new functionalities to existing and potential customers and can scale to accommodate additional DERs.

## Making a Caribbean island grid fossil-fuel free

WEB Aruba supplies the island with electricity and drinking water, using a capacity of 134 MW produced by thermal, wind, and solar plants. By 2020, WEB Aruba plans to generate half its energy from renewables and half from alternative fuels. WEB Aruba **selected ABB** due to its **extensive microgrid experience and microgrid portfolio**. The ABB solution **maximizes** the use of **renewables** while **minimizing** the consumption of fuel oil. With **day-ahead optimization** based on weather and load forecasts, **real-time optimization** to balance fluctuations in supply and demand, and **dynamic load shedding** to ensure grid stability, the system **readily accommodates** the intermittency of **wind and solar** — and the goals of its fossil fuel-free future.



## Make the most of all your energy sources



Learn about the ABB OPTIMAX for Industrial and Commercial by visiting <https://new.abb.com/power-generation/in-control/in-control-01-2017/virtual-power-plants>



Contact [us-energyindustries.communication@abb.com](mailto:us-energyindustries.communication@abb.com) to connect with the OPTIMAX sales team.

## About ABB

ABB is a leading provider of integrated power and automation solutions with unparalleled experience in partnering with the energy and water industries, bringing them improved operations and sustainable progress. We deliver integrated and secure digital systems, services, and solutions to automate and optimize the performance of conventional and renewable power plants and water facilities.