



North America: Building upon a Renewables Foundation

With hydro and biomass-powered facilities being among the earliest generation assets in the company's U.S. portfolio, IPR-GDF SUEZ North America's recognition of the value of renewable energy sources parallels the global company's long commitment to sustainability.

WIND OPERATIONS

5 facilities, 287 MW

BIOMASS/BIOGAS

OPERATIONS

8 facilities, 129.5 MW

HYDRO OPERATIONS

12 facilities, 172.8 MW

PUMPED HYDRO STORAGE

OPERATIONS

2 facilities, 1,109 MW

Today, IPR-GDF SUEZ North America manages 25 renewable facilities powered by wind, biomass, and traditional hydro energy, totaling a capacity of 589 MW. Additionally, two pumped hydro storage plants add another 1,109 MW to the clean energy mix. The electricity produced by these carbon-free and carbon-neutral operations makes up approximately one third of the company's total generation capacity in the Northeast United States and Eastern Canada.

Hydro-fueled generation in Massachusetts, Connecticut, and Vermont constitutes the greatest portion of the renewables sector. With the ability to achieve full generation output in 10 minutes from a shut down condition, Northfield Mountain, located in western Massachusetts, is the largest, most flexible hydro pumped storage facility in New England and among the largest in the United States.

Wind operations are focused in the Canadian Maritimes and Ontario, with two of five projects being the largest wind sites in Atlantic Canada. Another three wind projects totaling 175 MW are under construction in Ontario and in British Columbia, with commercial operation slated respectively through Spring 2013.

IPR-GDF SUEZ North America is the United States' third-largest biomass generator. The company operates biomass and biogas plants in the Northeast, Michigan, and Colorado.

Under construction in the solar arena is a 2 MW photovoltaic initiative in western Massachusetts that is projected for completion in fall 2011.

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GDF SUEZ: A Tradition in Renewable Energy

Historically committed to providing power in an environmentally friendly way, GDF SUEZ operates nearly 15,400 MW of renewable generation capacity in hydro, wind, biomass, and solar energy and has targeted a 50 percent increase in the global renewable energy generation fleet by 2015. With 90 percent of the global generation producing no carbon emissions or very few, the company's respect for the environment helped it earn *Fortune* magazine's designation as one of the Top 10 Most Accountable Global Corporations in 2008.

Our values

Drive
Commitment
Daring
Cohesion

Traditional hydro-powered electricity makes up 70 percent of the GDF SUEZ renewables portfolio. A GDF SUEZ engineering subsidiary, in fact, has studied more than 700 dams and contributed to the development of 26,000 MW of hydropower around the world.

The company is the third-largest biomass generator in the United States and the largest biomass power producer in France. In the biomass sector, GDF SUEZ has successfully implemented co-combustion technologies for pairing coal with biomass fuels to improve performance and reduce CO₂ emissions. Along with burning wood, one plant in Poland supplements its fuel stream with agriculture waste (such as straw and sunflower bales) and more exotic sources such as peanuts, olives, and rice.

Wind power totals 3,548 MW worldwide, and GDF SUEZ is the largest wind farm operator in France, where development plans include an offshore facility.

In solar power GDF SUEZ is working with numerous private industrial customers to implement solar generation onsite at their facilities. In 2010, the company also completed France's largest photovoltaic facility.

To discover long-term approaches to cleaner power generation, GDF SUEZ relies on more than 1,000 research and development technicians who are focusing, among many projects, on emerging technologies in marine energy, micro-algae applications, as well as pre- and post-combustion and cryogenic carbon capture and carbon transportation and storage options.

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