

Jamaica Bay Station



About NextEra Energy Resources

- » A leading clean energy provider operating wind, natural gas, solar and nuclear power plants
- » A portfolio of power generating facilities across the United States and in Canada
- » The largest wind generator in North America
- » A subsidiary of NextEra Energy, Inc., with headquarters in Juno Beach, Florida
- » More than 95 percent of our electricity comes from clean or renewable sources
- » Visit us at www.NextEraEnergyResources.com

How Simple Cycle Combustion Turbines Work

Jamaica Bay Station is a peaking plant, which means it is called into service only at times of high customer demand on the regional power grid.

It is called a simple cycle plant because it has only one means of generating electricity—combustion of natural gas or oil. Fuel is ignited inside a combustion chamber, and the hot combustion gases blow into a gas turbine, spinning the turbine blades. The spinning turbine is connected by a shaft to a generator. The shaft turns the generator, and the generator makes electricity.

Overview

- » Located in Far Rockaway, New York
- » Owned and operated by a subsidiary of NextEra Energy Resources
- » A 55-megawatt simple cycle natural-gas fired power plant
- » A Pratt & Whitney Power Systems combustion turbine
- » When operating at full power, the plant is capable of generating enough electricity for 55,000 homes
- » Began commercial operation in 2003

Benefits

- » Provides employment opportunities
- » Adds tax base to the county
- » Supports economy through purchases of regional goods and services
- » Supports various local community organizations

