

Forney Energy Center



About NextEra Energy Resources

- » A leading clean energy provider operating wind, natural gas, solar, hydroelectric and nuclear power plants
- » More than 16,700 megawatts of generating capacity in the United States and Canada
- » The largest wind generator in North America
- » A subsidiary of NextEra Energy, Inc., with headquarters in Juno Beach, Florida
- » Approximately 95 percent of our electricity comes from clean or renewable sources
- » Visit us at www.NextEraEnergyResources.com

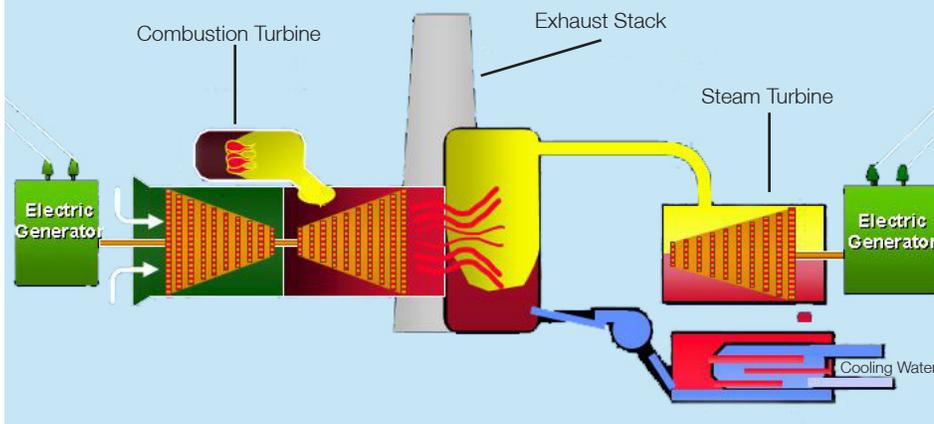
-As of Jan. 2012

How Combined-Cycle Combustion Turbines Work

Forney Energy Center generates electricity using both gas turbines and a steam turbine. First, natural gas is ignited inside a combustion chamber. The hot exhaust 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. The hot exhaust gases are then used to heat water to steam, and the steam is piped into steam turbines, which turn generators making additional electricity. After passing through the steam turbine, the steam is condensed back into water, reheated to steam and used again in a continuous process.

This is called a combined-cycle plant because it uses the combination of a gas turbine and a steam turbine to extract maximum energy from the fuel used.



Overview

- » Located in Forney, Texas
- » Operated by a subsidiary of NextEra Energy Resources
- » A 1,792-megawatt combined-cycle, natural gas-fired power plant
- » An intermediate plant, which means it is dispatched to operate approximately 16 hours every day
- » When operating at full power, the plant generates enough electricity for more than 1.6 million homes
- » Forney uses 14 million gallons of waste water a day reclaimed from the City of Garland, Texas
- » 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