

# Forney Energy Center

## Overview

- » A 1,789-megawatt combined-cycle, natural gas-fired power plant located near Forney, Texas
- » A subsidiary of NextEra™ Energy Resources operates the plant, which began commercial operation in 2003.
- » 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



## Benefits

- » Employs a staff of 41
- » Pays approximately \$11 million annually in property taxes
- » Supports the Forney Education Leadership Foundation, the Forney Police Department, the Forney Fire Department, the Forney Chamber of Commerce, and other community organizations and activities

## How It Works

Forney Energy Center is a combined cycle power plant, meaning it uses both gas and steam turbines to generate electricity.

First, natural gas is ignited inside a combustion chamber. The hot exhaust gases blow into a gas turbine, spinning the turbine blades. (All power plants have a turbine with blades that are either spun by the wind, by water, by steam or by hot gases.)

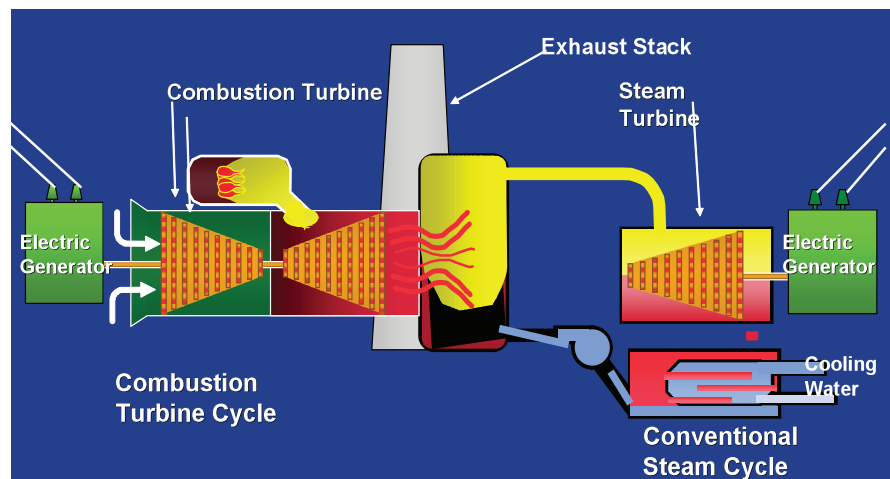
The spinning turbines are connected by a shaft to a generator. The shaft turns the generator and the generator makes electricity.

The hot exhaust gases are then used to heat water to steam and the steam is piped to a steam turbines that generate additional electricity.

After passing through the steam turbines, the steam is condensed back into water,

## About NextEra™ Energy Resources

- » A leading clean energy provider operating wind, natural gas, solar, hydroelectric and nuclear power across the nation
- » Approximately 17,000 megawatts of generating capacity in 25 states and Canada
- » The largest wind generator in the country with approximately 65 facilities in 16 states and Canada
- » A subsidiary of FPL Group, Inc., with headquarters in Juno Beach, Florida



reheated to steam and used again in a continuous cycle.

This is called a combined cycle plant

because it uses the combination of a gas turbine and a steam turbine to extract maximum energy out of the fuel used.