

Frontier Generating Station

SHIRO, TX



LOCATION:

17500 Highway 30
PO Box 369
Shiro, TX 77876

TYPE:

Natural Gas, Combined-Cycle

NOMINAL CAPACITY:

830 MW

COMMERCIAL OPERATION DATE:

2000

DGC ROLE:

Ownership

DGC OWNERSHIP:

28%

Overview

The Frontier Generation Station is an 830-megawatt (MW), natural gas, combined-cycle electric generating station located near Shiro in Grimes County, Texas. Frontier consists of three General Electric (GE) Frame 7FA gas turbine generators, three heat recovery steam generators and one General Electric steam turbine.

At the time it was developed in the late 1990s, Frontier was one of the largest non-utility electric generation facilities in North America and one of the first plants able to dispatch power to multiple grids beyond the Electric Reliability Council of Texas (ERCOT). Electricity had previously been transmitted in and out of ERCOT only through two expensive direct current (DC) interties. Frontier interconnects with ERCOT through CenterPoint Energy's 345-kilovolt (kV) transmission line and with grids outside of ERCOT, in the Eastern Interconnected Grid, through Entergy's 345-kV transmission line. Frontier's dual grid capability has been featured in Power Engineering magazine. In 2001, the plant was named Project of the Year by Power Engineering for the innovation. Frontier also has the ability to generate power using fuel oil.

Project Benefits

RELIABLE GENERATION:

Available to operate an average of 97.5 percent of the scheduled time over the past five years.

COMMUNITY & THE ENVIRONMENT:

The plant provides 28 well-paying, full-time jobs and, in 2017, paid more than \$4.4 million in salaries and payments to local subcontractors and vendors. More than \$45.6 million in property taxes has been paid since the plant began operation, of which approximately \$37 million supported area school districts.



Frontier Generating Station is owned by Tenaska Frontier Partners, Ltd. which is comprised of affiliates of Diamond Generating LLC, Tenaska, and J-POWER USA.

About Diamond Generating LLC

Diamond Generating LLC is a world-class independent power producer with a successful track record as a developer, owner, manager and operator of power generation assets across North America. Diamond Generating currently has ownership interest in 14 operating power generating facilities in the U.S. and Mexico, having total output capacity of approximately 7,800 MW, with net equity of 3,300 MW.



Diamond Generating LLC
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Learn More About DGC: www.dgc-us.com
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