

Yucca Gas Pipeline Project

Project Overview

The Imperial Irrigation District (IID) Yucca Gas Pipeline Project consists of the installation of a 900-foot pipeline extension and meter and pressure regulation stations which connect the Yucca Power Plant in Yuma, Arizona, to the TransCanada Corp., North Baja Pipeline. The new project will serve IID's steam turbine.



The Yucca Gas Pipeline will interconnect to the North Baja Pipeline which is largely in La Paz County, Arizona, and in Riverside and Imperial counties, California. TransCanada's pipeline extends 80 miles from Ehrenberg, Arizona, to a point south of Ogilby, California, on the California/Mexico border and connects with the Gasoducto Bajanorte natural gas pipeline system in Mexico.

In April 2011, construction was completed on the Yucca Gas Pipeline Project and the system began commercial operation.

The Yucca Power Plant

The Yucca Power Plant consists of eight generation units. IID owns a 75-megawatt (MW) steam turbine and a 20-MW combustion turbine which are both operated by APS. A critical asset, the steam turbine provides IID load following and frequency regulating services which are necessary for responding to the continuous variation between energy supply and demand.

Energy generated by the Yucca Power Plant is delivered to IID on the Yucca-Pilot Knob transmission line via the 161-kV IID/APS interconnection.

Project Benefits

The installation of the Yucca Gas Pipeline Project will enable IID to reduce and better control its energy costs. By managing gas purchase and delivery, IID expects significant annual fuel savings and a reduction in exposure to natural gas price spikes. IID's gas purchases were previously handled by APS.

Natural gas is the most environmentally responsible of the fossil fuels and is an important component of IID's diverse portfolio of resources.

Cost and Ownership

The \$4.4 million project was borne by IID to minimize the Southern California utility's energy costs. The project includes an investment of \$1.5 million for the pipeline extension and \$2.9 million for the gas meter and dual pressure system installation.

IID will own the pipeline infrastructure extending from the North Baja Pipeline to the Yucca Power Plant. TransCanada will own the associated pressure reduction and meter stations.

Gas Transportation and Balancing

IID has contracted with EDF Trading North America, LLC, for up to 18,500 dekatherms of daily gas transportation to power the steam turbine unit. EDF Trading will also schedule and balance the natural gas supply for the unit.

North Baja & Gasoducto Baja Norte Firm Transportation Daily Quantities

