

# Natural Gas Generation



**PACIFICORP**

Rocky Mountain Power  
Pacific Power  
PacifiCorp Energy



*Lake Side 1 and Lake Side 2 Generation Facilities*

PacifiCorp's natural gas-fueled power plants in Utah play a considerable role in meeting our long-range plans to remain among the lowest-cost energy producers in the nation. We own more than 3,100 megawatts of efficient natural gas generation across the West. Moreover, natural gas-fueled plants have the advantage of producing about 40-50 percent less carbon dioxide per megawatt-hour generated than coal-fueled plants.

We and our customers benefit from electricity generated at four plants in the Rocky Mountains by three different technologies fueled by natural gas: conventional steam, simple-cycle and combined-cycle technologies.

## Gadsby Plant

Three conventional steam turbines and three simple-cycle combustion turbines are capable of generating 357.5 MW.

Our three steam units at Gadsby use natural gas to boil water to turn the steam turbines to engage the generators to produce electricity.

Gadsby's three simple-cycle natural gas-fueled combustion turbine generators are based on aircraft jet engine technology. Each combustion turbine unit consists of two-stages of compressors, a fuel combustion section and two expansion power turbines that drive the compressors and the electric generator.

## Currant Creek and Lake Side generation facilities

Two combined-cycle combustion turbines and one steam turbine each are capable of producing 550 MW at Currant Creek, 558 MW at Lake Side 1 and 645 MW at Lake Side 2.

Currant Creek, Lake Side 1 and Lake Side 2 blend modern technology with environmental stewardship. The combined-cycle combustion turbines can go into full operation quickly, when our customers' needs increase sharply or our other resources dip. That allows us to balance our valuable – but more intermittent – renewable generation assets that we have incorporated into our resource portfolio, namely wind and solar.

We burn tens of billions of cubic feet of gas in our generation facilities each year. The price of natural gas, like most commodities, varies seasonally and at times can be volatile. A portfolio of purchase contracts helps us manage the risk of fuel price changes and matches fuel purchases to our plants' needs.

As we plan for the future, we expect natural gas will continue to play an important role in helping meet our customers' needs for electricity.

*PacifiCorp is one of the lowest-cost electricity producers in the United States, providing approximately 1.8 million customers in the West with reliable, efficient energy. We operate as Rocky Mountain Power in Utah, Wyoming and Idaho, and as Pacific Power in Oregon, Washington and California. PacifiCorp's electric generation, commercial and energy trading, and mining functions are operated as PacifiCorp Energy.*



Currant Creek Facility