

Dave Johnston Plant



PACIFICORP

Rocky Mountain Power
Pacific Power
PacifiCorp Energy



Dave Johnston Plant is named for W.D. “Dave” Johnston, the former company vice president who accepted the suggestion of Glenrock, Wyo., town leaders to consider locating our new power plant there to prompt a rebound for the economically depressed community. Our investigation of the enormous coal seam there and other studies determined the site was ideal for generating low-cost power.

We commissioned the plant in 1958, added three units – for a total of 762 megawatts – on the 2,500-acre site, and own and operate this plant.

Units 1, 2 and 3 are equipped with electrostatic precipitators to control particulates. The Unit 4 boiler is equipped with a wet particulate scrubber that collects both particulate matter and

sulfur dioxide. To also reduce particulates and sulfur dioxide on Unit 3, we installed a cloth filter bag house in 2010 and the same is planned for Unit 4 in 2012. Additionally, we installed low-nitrogen oxide burners on Units 3 and 4 in 2009 and 2010.

Dave Johnston burns as much as 4 million tons of sub-bituminous coal per year. Previously that coal came from neighboring Dave Johnston Mine and today it is supplied via rail by other Wyoming mines.

That coal is burned by a boiler 20 stories tall to produce steam that is 2,400 pounds of pressure per square inch at nearly 1,000 degrees Fahrenheit. Pipes carry that steam to the turbine to turn its blades to engage the generator to produce electricity.

The spent steam is sent to the condenser, where cool water tubes transform the steam back into water, which is returned to the boiler to again be heated into steam to repeat the cycle. The cooling water, containing excess heat, is sent to large cooling

towers where it is transferred to the atmosphere, creating white plumes often seen rising above the plant.

Water for plant operations comes from the North Platte River, which runs through the plant site.

Power generated by Dave Johnston Plant begins its journey to our customers via high-voltage power lines to central Wyoming substations owned by PacifiCorp and by Western Area Power Authority.

Mine reclamation sets gold standard

More than 104 million tons of coal were removed from Dave Johnston Mine before it was closed in 2000. Reclamation efforts that had accompanied the surface mining operations since 1965 were put into full gear in 1999, and completed in 2005.

More than 85 million yards of earth were moved, native vegetation was reseeded, topography was reshaped, major drainage areas were re-established and habitat was created for wildlife from golden eagles to sage grouse and from elk to rabbits.

The reclamation earned accolades for leaving the land in better shape than it had been found. Among them were an Excellence in Surface Coal Mining and Reclamation Award from the Office of Surface Mining, a bureau of the U.S. Department of the Interior.

Our environmental stewardship demonstrated with the Dave Johnston Mine reclamation sets a gold standard for future restoration of other surface mine sites.

Recreation opportunities

Generating recreation opportunities with the same resources we use to generate power is an additional way PacifiCorp provides for the community.

Pacific Park, across the North Platte River from Dave Johnston Plant, provides picnic tables, drinking water, restrooms and fishing access. For day use only, the park is open between May and October.

Visit pacificorp.com/recreation for details about the recreation amenities – and any fees – at our recreation areas.

PacifiCorp is one of the lowest-cost electricity producers in the United States, providing approximately 1.7 million customers in the West with reliable, efficient energy. PacifiCorp operates 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.

We are serious about our commitment to the communities in which we do business. So are our 200 Dave Johnston Plant employees. They are active in their communities and – as a group – contribute to the health of those communities through local initiatives and through our Community Giving Campaign, which includes the United Way and other human services organizations.

