

factsheet

December 2006

White Creek and Nine Canyon wind farms

In October 2006, BPA sold 100 megawatts (MW) of wind storage and shaping service to help integrate power from the proposed White Creek Wind Project in Klickitat Co., Wash., into the Northwest power system. BPA also is selling 5 MW of Network Wind Integration Service to three participants in Nine Canyon Wind Projects I and II located near Kennewick, Wash. An additional 6 MW of Network Wind Integration Service may be sold to Nine Canyon Phase III, if it is built.

About White Creek and Nine Canyon

Both projects are sponsored by BPA customer utilities. All are publicly or cooperatively owned utilities in Washington. Combined, they have a generation capacity of 268 megawatts.

White Creek will commence operations December 2007. White Creek's participants are:

- Cowlitz PUD (44 percent)
- Klickitat PUD (26 percent)
- Lakeview Power and Light (26 percent)
- Tanner Electric (4 percent)

Nine Canyon I began commercial operation on September 2002, and Nine Canyon II came online December 2003. Nine Canyon's participants purchasing network wind integration service from BPA are:

- Cowlitz Co. PUD (2 MW)
- Lewis Co. PUD (1 MW)
- Mason Co. PUD #1 (2 MW)

About the products sold

Network Wind Integration Service – for BPA publicly owned utility customers who dedicate the wind energy to requirements load. The price for FY2007 is \$1.12 per kilowatt-month of capacity purchased, plus annual escalation.

Wind Storage and Shaping Service – used by customers that want to market wind generation and wish to have actual wind generation stored and shaped into predictable blocks of firm energy. These predictable blocks of energy are more valuable in the market and reduce transmission costs. The service is energy neutral; BPA returns the same amount of energy that it takes in.

This service provides redelivered flat block HLH/LLH energy returned 168 hours after scheduled amounts of the wind energy are made available to BPA. This product is priced at \$1.49 per kW month plus annual escalation.

Future projects

BPA has entered into contracts for these services even though BPA suspended marketing wind integration services in August 2005, due to uncertainties about surplus hydro system capacity. A commitment to offer these services had been secured prior to that date by White Creek, and the service for Nine Canyon is an extension of an existing sale.

BPA is exploring its future ability to offer additional wind storage and shaping services. Since these



services draw upon the surplus capacity of the Federal Columbia River Power System, it will depend upon:

- The outcome of regional efforts to better understand wind integration requirements and current hydro system capabilities.
- Impacts of changes in river operations that may come out of the biological opinion remand process.

Therefore, for the time being, additional offers of Network Wind Integration Service will be considered on a case-by-case basis.

Working toward greater certainty

The Northwest Power and Conservation Council (NPCC) and BPA are working on a Northwest Wind Integration Action Plan to craft a regional approach to integrating large amounts of wind energy into the Northwest power system. This plan seeks to determine the amount of system flexibility required to integrate wind energy into the system in a reliable fashion. Once BPA better understands these requirements, it can determine the availability of surplus capacity available for wind storage and shaping services.