

New White Creek Substation Benefits KPUD

Klickitat PUD's (KPUD) new White Creek Substation is now energized and delivering power from turbines at the White Creek Wind Project in Roosevelt to Bonneville Power Administration's (BPA) new Rock Creek Substation.

Our new substation has additional benefits to KPUD besides being a collector of wind power. It has a 34.5-kilovolt (kV) bay that can be used as a new transmission feeder for the Cleveland Substation, which serves the Bickleton area. The Cleveland Substation is fed at 69 kVs from Goldendale, the same as our substations in Roosevelt and at the H.W. Hill Landfill Gas generation site.

All of these substations will eventually be served from White Creek.

The service from White Creek

should be more reliable, because it is about 20 miles closer than the current source in Goldendale.

Additionally, we have a 12.5-kV transformer in the White Creek Substation to serve customers to the north and south along Dot Road. That gives us the opportunity to serve customers from two different substations.

This should help decrease the outages during severe icy conditions we face in that area, by allowing us to switch customers from one source to another.

This also should provide better voltage stability in the area.

The new substation may help decrease our maintenance costs in the future. If we rebuild the 69-kV line from Goldendale to Dot Road area, we will have two sources so we



KPUD's new White Creek Substation.

can rebuild sections of the line while they are not energized. That is substantially cheaper than doing the work while the lines are energized. ■

Wind Farm Starts Up

The White Creek Wind project in eastern Klickitat County achieved commercial operation last month.

Output from the project goes to the four Washington public power project sponsors. They include Klickitat PUD (KPUD); Cowlitz County PUD in Longview; Lakeview Power and Light in Lakewood; and Tanner Electric Cooperative in North Bend.

The utilities jointly developed the 205-megawatt wind farm. It produces enough energy to power 38,000 homes.

KPUD has sold its 26-percent share of output to Powerex until 2011, when a new BPA contract takes effect and no longer is expected to serve KPUD's load growth. ■



Above, wind is now producing power at the White Creek project in Klickitat County.