

# KLONDIKE Wind Power Projects



## Project Overview

The Klondike Wind Power Developments encompass four individual wind power projects: Klondike I, Klondike II, Klondike III and Klondike IIIa, located in Oregon on private ranches and farms along the back edge of the Columbia River Gorge. Together, these wind energy projects generate a total of 400 megawatts (MW). Typically a 400 MW wind project can generate power for more than 115,000 homes, according to the American Wind Energy Association's calculation.

Named for an original Sherman County settlement, the wind power projects are located five miles east of the town of Wasco, Ore. The projects support the local economy through lease payments to landowners and property tax or in-lieu payments to Sherman County. Hundreds of jobs were created during the projects' four construction periods spanning 2000 to 2008. While the project spans thousands of acres of private land, the actual footprint is less than two percent of the total area. Landowners continue using the remainder of the land for wheat farming, ranching and other traditional activities.

### Klondike I Project Details

**Project Capacity:** 24 MW

**Online:** 2001

**Wind Turbines:** 16 GE Energy 1.5 MW turbines

**Customer:** Bonneville Power Administration



### Klondike IIIa Project Details

**Project Capacity:** 76.5 MW

**Online:** July 2008

**Wind Turbines:** 51 GE Energy 1.5 MW wind turbines

**Customer:** Pacific Gas and Electric Company with a callback option of half the energy for Bonneville Power Administration

### Klondike II Project Details

**Project Capacity:** 75 MW

**Online:** 2005

**Wind Turbines:** 50 GE Energy 1.5 MW turbines

**Customer:** Portland General Electric

### Klondike III Project Details

**Project Capacity:** 224 MW

**Online:** Late 2007

**Wind Turbines:** 44 Siemens 2.3 MW wind turbines, 80 GE Energy 1.5 MW wind turbines and one Mitsubishi 2.4 MW wind turbine

**Customers:** Pacific Gas and Electric Company (99 MW), Puget Sound Energy (50 MW), Eugene Water & Electric Board (25 MW), Bonneville Power Administration (50 MW)





## Developer and Owner

Avangrid Renewables is a subsidiary of AVANGRID, Inc. (NYSE: AGR) and part of the IBERDROLA Group, an energy pioneer with the largest renewable asset base of any company in the world. Avangrid Renewables is headquartered in Portland, Oregon, and currently operates and contracts for more than 6,000 MW of renewables in the U.S.

## Turbine Facts

**Average height of turbines:** About 30 stories tall

**Average weight of turbines:** About 235 tons

**Average amount of concrete for foundations:**  
About 22 truckloads

## Testing New Technology

Klondike is a testing ground for the latest wind turbine technology. Klondike's four wind power developments employ two types of GE Energy wind turbines and Siemens wind turbines. In addition, Klondike is testing next-generation wind turbine technology from Mitsubishi. This prototype wind turbine manufactured in Japan is designed for superior resistance to lightning strikes while delivering optimum performance and safety features.

## Project Benefits

In addition to producing emission-free, renewable power for our customers, the project generates tens of thousands of dollars annually in direct economic benefit to the local economy through a combination of job creation, taxes, easement payments and landowner revenue participation payments.

For more information, visit [www.avangridren.com](http://www.avangridren.com) or see us on Twitter, Facebook, LinkedIn, YouTube, Instagram, and Vine under the handle **AvangridRen**.



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