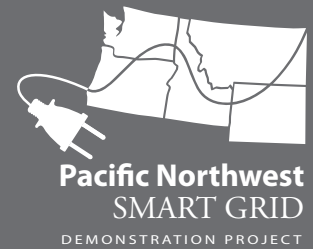


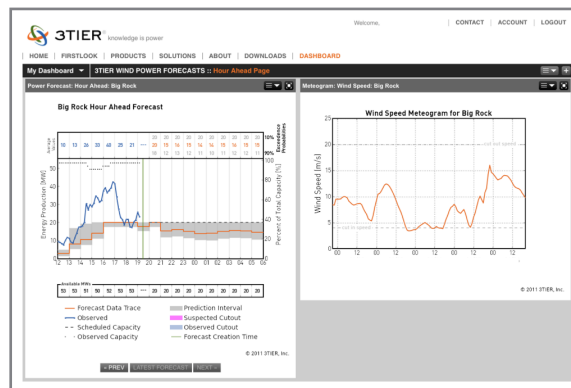
3TIER

Pacific Northwest Smart Grid Demonstration Project



About 3TIER

3TIER helps the global energy market manage renewable energy risk. A pioneer in wind, solar, and hydro generation risk analysis, 3TIER uses weather science to frame the risk of weather-driven variability – anywhere on earth, across all time horizons. 3TIER is one of the largest operational forecasters of renewable energy in the world. The company has global reach with offices serving North America, Europe, India, Latin America, and the Pacific Rim and offers products and services spanning renewable energy project feasibility, energy marketing, and asset management.



Project Overview

3TIER was selected to forecast wind and solar power generation for the Pacific Northwest Smart Grid Demonstration project, both on a project-specific and regional basis, for the duration of the project. Accurate forecasting of renewable energy production will maximize the power from these sources that is integrated into the grid and help ensure reliable grid operation. 3TIER will provide hour-, day-, and week-ahead forecasts, which will be centrally processed as part of an integrated power supply and demand control system, the Project's Transactive Incentive Signal.

The Pacific Northwest Smart Grid Demonstration Project, or PNW-SGDP, is a collaborative, five-year test of new technologies and capabilities that will make our regional power grid smarter. Unique in size and scope, the PNW-SGDP involves the Bonneville Power Administration, five technology partners, 11 utilities across five states, Washington, Oregon, Idaho, Montana and Wyoming, and the University of Washington. The PNW-SGDP will demonstrate the potential for a safe, scalable and interoperable smart grid for regulated and non-regulated utility environments. The project is managed by Battelle's Pacific Northwest Division located in Richland, Wash. Battelle is a \$5 billion non-for-profit organization that benefits mankind by helping solve some of the world's toughest science and technology based challenges.

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