Title: Smart Solutions for the Smart Grid

Speaker: Eric Sortomme, UW EE Graduate Student

Location: Winkenwerder 201, UW campus
Map: http://www.washington.edu/home/maps/southcentral.html?62.61.750.808

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Abstract

As concern over climate change and the environment increase there is an increased installation of renewable energy sources such as wind and solar. Additionally governments are instituting renewable portfolio standards (RPS) for utilities to require them to install higher levels of these resources than ever before. These renewable energy sources (RES) are not without problems. They are usually far from load centers and thus require increased transmission. They also are largely stochastic and thus cause reliability issues. One way to integrate these large scale RES as well as local sources in an efficient manner is to use extensive communication and demand side participation into a SmartGrid. In this presentation we show the emerging SmartGrid technologies and how they can be integrated together to have a more reliable power grid with minimized costs for all participants.

Eric Sortomme is a graduate student in the Electrical Engineering Department at the University of Washington. In addition to his graduate work, he is an expert on gourmet root beers.