

Agenda

Wednesday February 17, 2010

8:00 - 8:30 AM	Check-In (HUB 106B)
8:30 - 8:45 AM	Welcome & Introductions
8:45 - 9:30 AM	The Future Distribution Network - Mohamed El-Sharkawi
9:30 - 10:30 AM	Evaluation, Planning, and Economics of Smart Grid - Tom Kerestes
10:30 - 11:00 AM	Break
11:00 - 12:00 PM	Smart Grid Load Management - Don Hammerstrom
12:00 - 1:00 PM	Lunch - Included
1:00 - 2:00 PM	Sensing and Communications for Smart Grid - Bob Yinger
2:00 - 2:30 PM	Break
2:30 - 3:30 PM	Wrap-Up Panel Q&A
3:30 - 4:00 PM	Walk to EE department for student poster session
4:00 - 6:00 PM	Student Poster Session

Thursday February 18, 2010

8:30 - 9:30 AM	Smart Grid Vision for the Northwest - Lee Hall
9:30 - 10:30 AM	Smart Home Sensing - University of Washington
10:30 - 11:00 AM	Break
11:00 - 12:00 PM	Microgrid Islanding and Peak Load Shaving - Avista Utilities
12:00 - 1:00 PM	Lunch - Included
1:00 - 2:00 PM	Distribution System Self Healing- Puget Sound Energy
2:00 - 3:00 PM	Electric Vehicle Charging Station - Jim Billmaier
3:00 - 3:30 PM	Conference Wrap Up

Organizing Committee

Pacific Northwest National Laboratory
University of Washington EE Dept
Bonneville Power Administration
Snohomish County PUD
Puget Sound Energy
Seattle City Light
Tacoma Power
AREVA

Smart Grid Technology & Applications

Overview

The Northwest Energy Systems Symposium will identify the emerging issues in Smart Grid Technology and Applications. This two-day symposium focuses on regional solutions that are critical to the success of building a Smart Grid system and implementing a Smart Grid program. DOE Smart Grid demonstration projects along with 4 case studies will be presented on the second day.

Speakers



Mohamed El-Sharkawi: IEEE Fellow and professor of EE at University of Washington. He will speak to the evolving role of the traditional power grid into the modern Smart Grid.



Lee Hall: Smart Grid Program Manager at Bonneville Power Administration. Lee will speak about twelve recent DOE funded regional utility Smart Grid demonstration projects.



Robert Yinger: Consulting Engineer in the Advanced Technology Group for Southern California Edison. Robert will talk about digital devices and communications technologies for Smart Grid.



Tom Kerestes: Member of the Energy & Utilities practice of West Monroe Partners with 33 years experience. Tom will talk on the evaluation, planning, and economics of Smart Grid.



Don Hammerstrom: Senior Research Engineer for the Energy Technology Development group at the Pacific Northwest National Laboratory. Don will talk on approaches to demand-side load and resource management that are useful for evaluating Smart Grid benefits.

Case Study Presentations

Curt Kirkeby: AVISTA Utilities will present on AVISTA's expected outcomes and details regarding their development of a microgrid and the use of intentional islanding.

Ron Tornquist: Puget Sound Energy will present on Distribution Self Healing.

Shwetak Patel: University of Washington will present research work on building low-cost and easy-to-deploy sensing solutions for monitoring electricity, water, and gas in the home.

Jim Billmaier: Charge Northwest will present policy as well as accompanying technical issues related to electric vehicle charging stations.

Student Poster Session

Don't miss the UW EE student poster contest at 4:00 PM on February 17. Held in the atrium of the Paul Allen Center, 200 ft south of the HUB.

Registration

Register online by Monday, February 8, 2010 by going to the symposium website at www.nwess.org and selecting the registration link (\$175 for IEEE Members, \$200 for Non Members). Registration requires payment with a major credit card and includes all presentations, refreshments during breaks, and lunches. Parking available onsite: \$15/day

Additional information available at

<http://www.nwess.org>