Washington State University Training in Clean Energy Smart Grid Engineering

Project Description

Washington State University, in collaboration with 11 partners, is developing and delivering six undergraduate courses and 12 graduate courses in Smart Grid engineering. Undergraduate courses provide power engineering fundamentals and Smart Grid basics. Graduate courses are in the areas of clean energy generation technologies, Smart Grid technologies, Smart Grid planning, and Smart Grid operation. Most of the course development will be done at Washington State University and the University of Washington. Due to their expertise, specialized parts of the courses will be developed by Pacific Northwest National Labs, Incremental Systems, Areva T&D, and the Bonneville Power Administration. The remaining organizations will review courseware, participate in its initial delivery, and provide course assessments. This project utilizes computerized delivery mechanisms, such as electronic blackboards and video-streaming that will be continually upgrade to reflect technological change.

Goals/Objectives

- Develop 18 collegiate-level training courses in the power engineering areas with an emphasis on clean energy and Smart Grid
- Continuously upgrade courseware
- Ensure training effectiveness

Benefits

- Experienced graduates with hands-on knowledge of cutting-edge technology in clean energy and Smart Grid
- Job placement opportunities in the power industry
- Career advancement within the Smart Grid service sector
- Economic growth



CONTACTS

Deborah Buterbaugh

Project Manager National Energy Technology Laboratory 3610 Collins Ferry Road Morgantown, WV 26507-0880 304-285-4164 Deborah.Buterbaugh@netl.doe.gov

Anjan Bose

Principal Investigator Washington State University Neill 423 – PO Box 643140 Pullman, WA 99164-3140 509-335-1147 bose@wsu.edu

PARTNERS

University of Washington
Pacific Northwest National Labs
Incremental Systems Inc
Areva T&D
Bonneville Power Administration
Avista Utilities
Puget Sound Energy
Tacoma Power
Snohomish PUD
Schweitzer Engineering Laboratories
Northwest Public Power Association

PROJECT DURATION

07/30/2010-07/30/2013

COST

Total Project Value \$4,341,828

DOE/Non-DOE Share \$2,500,000/\$1,841,828

PROJECT LOCATION

Washington

CID: OE0000486

Managed by the National Energy Technology Laboratory for the Office of Electricity Delivery and Energy Reliability

