



Oncor Electric Delivery Company Grid Reliability through Engineering Advancement and Training

Project Description

Oncor Electric Delivery Company is partnering with Siemens Power Technologies International to provide training in transmission planning and system protection due to increased urban energy loads and to meet the need for specialized wind power studies. Students will focus on developing practical problem-solving abilities and building a greater working knowledge of transmission power systems. The training will enable engineers to plan, design, and protect a Smart Grid. Courses include Power Electronics in Transmission Systems (HVDC, FACTS) and Wind Power, Analytical Methods for Voltage Control and Reactive Power Planning, Power System Stability and Stabilizer Tuning, and courses based on Siemens' PSS[®] software, such as Graphical Model Builder and Advanced Power Flow. Training will be provided at Oncor for their employees and at Siemens for the public.

Goals/Objectives

- Train engineers in the specialized areas of transmission planning and system protection
- Enhance electrical engineering training with more specialized knowledge in electric power system technology

Benefits

- Jobs replacing retiring engineers
- Transmission planning problems resolution
- Increased Smart Grid functionality
- Power line and substation upgrades that aid in advanced renewable energy development as mandated by the Texas legislature



CONTACTS

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PARTNERS

Siemens Power Technologies International

PROJECT DURATION

6/10/2010–6/10/2013

COST

Total Project Value
\$431,937

DOE/Non-DOE Share
\$188,748/\$243,189

PROJECT LOCATION

Texas

CID: OE0000456

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

