Clemson University Electric Power Research Association

Power Industry Essentials Certificate Program

Project Description
Clemson University Electric Power Research Association is developing three online certificate programs and an online Master of Engineering program focusing on training the workforce in power systems. The certificate programs include a Power Systems Engineering certificate, a Renewable Energy certificate, and an Advanced Power Systems certificate. A doctoral program will also be offered for qualified engineers. Three groups are targeted as program candidates: electrical engineering graduates lacking power systems training coursework; engineering graduates lacking renewable energy coursework; and electrical engineering graduates with only the basics of power systems. Courses include Electric Machines and Drives, Power Systems Dynamics and Stability, Renewable Energy on the Grid, and Wind and Solar Power Fundamentals. Course enhancements will be determined by a survey of power industry stakeholders. All programs are currently underway.

Goals/Objectives
- Increase the number of trainees educated in power systems
- Promote excellence in electric power education and research

Benefits
- Job retention and professional growth
- Trained workforce to replace retirees
- Energy costs reduced

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PARTNERS
None Listed

PROJECT DURATION
07/22/2010–07/22/2013

COST
Total Project Value
$827,083
DOE/Non-DOE Share
$744,374/$82,709

PROJECT LOCATION
South Carolina

CID: OE0000466

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