



# 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 work force 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



## CONTACTS

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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

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

