Background:
The U.S. is facing a critical shortage of trained professionals to maintain the existing electric power system and to design, build, and operate the electric power systems of the future. The Electric Power Research Institute estimates that by 2030, an additional 18,500 to 35,000 electric power engineer positions will need to be filled.

Project Overview:
- Led by The Ohio State University and American Electric Power
- Sponsored by the Department of Energy ($2.5 M for three years, 2010-2013)
- Supported by Alcatel-Lucent, Emerson Network Power, Eaton Corporation, and Ohio Energy Project

Project Description:
- Educate next-generation electric power engineers through an interdisciplinary curriculum for electric power engineers, the **I-SMART** curriculum;
- Promote energy/environment consciousness and career awareness at the university level through the freshman class **Energy and Society**;
- Train engineers from the electric power sector through **Short Courses** adapted from the **I-SMART** curriculum to enhance skills and increase job retention; and
- Train high school teachers through hands-on **Summer Workshops** and provide materials for the classroom.