



# Illinois Institute of Technology Smart Grid Education and Workforce Training Center

## Project Description

Illinois Institute of Technology (IIT) is using their established power engineering education training center to provide Smart Grid education and training to diverse groups, such as power industry employees, union workers, college and high school students, high school teachers, Veterans, lawyers, entrepreneurs, and information technology professionals. IIT's Smart Grid Education and Workforce Training Center is a collaborative effort of 100 participating members including three domestic and five international universities, 49 community colleges, high schools, six city and government organizations, eight labor unions and councils, one national laboratory, six power transmission and distribution systems operators, five professional training organizations, 17 Smart Grid manufacturers and software companies, and 13 energy system consulting services. Educational options include university-level four-year degree programs, graduate programs, certificate programs, Associate degree programs, short courses and workshops. The Center is equipped with state-of-the-art software, including Areva T&D's Dispatcher Training System and Distribution Management System, and OSIsoft's PI System power grid monitoring and control software. IIT's campus is home to the first-of-its kind Perfect Power microgrid – Smart Grid deployment that provides perfect reliability, enhanced efficiency, and energy sustainability. IIT's facility is located near one of the nation's largest utilities, Exelon/ComEd, who will use the Center to upgrade employee skills and train new workers. IIT and its partners plan to grow the program through the use of web-enabled courses and a fee-based membership program.

## Goals/Objectives

- 49,000 trained power industry employees, union workers, teachers, and students
- Self-sustaining operation beyond the funding period
- Greater understanding and acceptance of Smart Grid by policy makers, legislators and the public

## Benefits

- Job creation and preservation
- Workforce trained to meet the global challenges in energy independence, clean environment, and sustainable energy
- Greater capability to manufacture new electrical equipment for Smart Grid implementation
- Enhanced research and development
- Smart Grid growth
- Increased utility investment in the electric power sector



## CONTACTS

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## PARTNERS

State of Illinois  
Areva T&D Inc  
Operation Green Jobs  
Mississippi State University  
OSIsoft LLC  
Applied Professional Training  
West Monroe Partners  
Keyworks  
McCoy Energy  
Argonne National Laboratory

## PROJECT DURATION

8/13/2010–8/13/2013

## COST

**Total Project Value**  
\$12,620,153

**DOE/Non-DOE Share**  
\$4,999,999/\$7,620,154

## PROJECT LOCATION

Illinois

CID: OE0000449

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