DOE ARRA SGIG Grant
Brief Overview and Next Steps

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SYSTEM DEPLOYMENT in NEW YORK

- 52 PMUs (NY TOs)
- 10 PDCs (NY ISO and TOs)
  - Communications

On-Line Applications:

EMS-based (RTU/PMU-driven)
- Enhanced state estimator
- Voltage stability monitor

PMU-driven
- Stress monitor
- Oscillations monitor
- Mode meter
- Frequency and voltage monitoring
- MW and MVAR monitoring

Off-Line Applications:

- Dynamic System Validation and Calibration
  - Controlled System Separation
Further Developments

- **Must have:**
  - Conditioning and validation of real time sychrophasor measurements data
  - Dynamic system performance baselining – operator guidelines – training

- **Great to have:**
  - El Data sharing & situational awareness
  - Voltage stability monitoring- phase 2: from maximum loadability to voltage collapse
  - Complex event detection

- **Like to have:**
  - Flexible/adaptive IT Infrastructure
  - NPCC/NYISO Dynamic system modeling – validation & calibration
  - Accelerating dynamic system simulations
  - Dynamic system analysis – using composite system models (first principles and data driven)
Wide Area Monitoring and Control using Synchrophasor Measurements

- Chair: Damir Novosel, Quanta Technology

Market Structures

- Chair: Rana Mukerji, NYISO

Distribution Control Centers

- Chair: Gary Ockwell, Efacec ACS

Information Systems and IT Security

- Chair: Chen-Ching Liu, Washington State University

EMS modeling and operations for large interconnected systems

- Chair: Felix Wu: University of California at Berkeley

Abstracts are due April 1, 2013
12th International Workshop
June 2 - 5, 2013
Bedford Springs, Pennsylvania

eXchange experiences, insights & innovations with Electric Power Control Centers Worldwide

Registration Information
Registration is open. Please complete and submit the workshop Registration form.

Accommodations
The 2013 Electric Power Control Centers Workshop (EPCC) will take place at the Omni Bedford Springs, in Bedford Springs, Pennsylvania. To book hotel accommodations please click on the Accommodations link.

Save the Date
Please join us June 2-5, 2013. EPCC Workshops provide a unique platform for information exchange among the industry professionals involved in technical, business, regulatory and financial aspects of system reliability and electricity markets. Workshop discussions focus on the latest developments in control center technologies, highlighting their impact on the most urgent challenges of power system operations and system planning.
The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state’s bulk electricity grid, administering New York’s competitive wholesale electricity markets, conducting comprehensive long-term planning for the state’s electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.

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