

## **SMART GRID WORKING GROUP CHARTER**

### **MISSION**

The purpose of the Smart Grid Working Group (SGWG) is to formulate a cohesive approach to be used by the PJM Transmission Owners for the development of the “smart grid” and to provide recommendations for the implementation of the smart grid within PJM.

### **RESPONSIBILITIES**

1. Provide the TOA-AC with the initial inventory of smart technologies currently installed and/or budgeted for on the individual TO's delivery systems down to the meter interface by September 24, 2007. A report on the inventory will be furnished to the Steering Committee by October 15, 2007. The Steering Committee will then develop a future course for deliverables based upon these results.
2. Work with PJM and independent smart grid entities (GridWise, Modern Grid Initiative, Intelligrid, etc.) to identify transmission-related smart grid technologies.
3. Participate in any PJM stakeholder group(s) created to investigate smart grid initiatives for possible future implementation on the PJM system, and provide direction and leadership.
4. Provide recommendations to TOA-AC regarding the following items:
  - a. Review technologies with a focus on the interoperability of these systems.
  - b. Evaluate more automated tools for dispatching and control.
  - c. Review existing communications protocols, and provide an opinion on interoperability of legacy systems.
  - d. Provide list of implementation hurdles, including telecommunications issues.
5. Provide recommendations and feedback to TOA-AC regarding other smart grid efforts, nationally and/or internationally, which may be proxies for the PJM transmission system.
6. Provide the TOA-AC with information on the costs and potential benefits of investing in new/additional smart technologies which have been identified by the group.

### **ADMINISTRATIVE**

1. The Smart Grid Working Group reports to the TOA - Administrative Committee. Additionally, a Steering Committee has been established by the TOA-AC to assist the working group in developing and implementing the

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Adopted September 11, 2007

goals of the SGWG. The steering committee consists of the following individuals; Paul Napoli - PSEG, Bernie Pasternack - AEP, Ray Connolly - Exelon, Joe Waligorski - FE and Pete McGoldrick - Orange and Rockland.

2. The Steering Committee will provide feedback to the team concerning direction and expectations of the TOA-AC, and as requested, will work with the team to overcome barriers internal or external to the group that prevents achieving our collective expectations. The Steering Committee is also expected to work with the Chairman of the SGWG to determine how to best coordinate activities and expectations with the larger PJM Smart Grid team that will be established.
3. Participation in the SGWG is voluntary. PJM employee status or TO membership is required.
4. SGWG participants may be required to sign a confidentiality agreement or any other agreement that protects the interest of PJM and its members.
5. TO companies provide the working group Chair and Secretary. The Chairman of the SGWG is Jim Calore, with executive sponsorship provided by PSE&G. Navin Bhatt of AEP is the Secretary.
6. The SGWG Chair is responsible for organizing meetings, preparing agendas, circulating meeting materials, and the Secretary is responsible for preparing meeting notes, and standing in for the Chair when necessary.

### **CORE COMPETENCIES**

Participants in the SGWG should have an interest in the role of advanced technologies in the electric system, and general knowledge about such technologies. Experience with existing smart technologies including advanced metering and communication would be a valuable asset to the working group.

Collectively, the SGWG members should have knowledge of:

1. T&D infrastructure
2. T&D system operations
3. SCADA and monitoring equipment
4. Advanced relaying and control equipment
5. Communications infrastructure and data protocols
6. NERC - CIP security standards for communications and control
7. Advanced meters and related infrastructure and data warehouses.

Each member should have the authority to commit resources in order to support the work of the Smart Grid Working Group.