



**EDISON ELECTRIC
INSTITUTE**

EEl's Smart Grid Action Plan

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Smart Grid Interoperability Standards:
An Industry Call to Action
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Fall CEO Meeting Session on Smart Grid

- Focused on the transformational impact of Smart Grid technology on our business models, and the public policy challenges Smart Grid will present.
- Panelists included parent company CEOs, utility Presidents/CEOs, a CIO, and EPRI
- CEOs identified three key strategic and public policy issues that EEI should focus on going forward
 - Cyber Security
 - Data Access / Ownership
 - *Interoperability Standards

(NOTE: A full summary of the session is available in your meeting materials)



EI's Leadership Structure for Overall Smart Grid Policy Development

- Activity will be conducted at the CEO level under the Policy Committee on Strategic Issues
- As required, member company and EI staff working teams have been or will be created to address specific issue areas
 - EI will integrate existing working groups' activities into team. Existing groups will continue to report to assigned CEO policy committees
 - EI will launch a Smart Grid Internet Workroom to manage policy development and to communicate with members

EEl's Approach To The Interoperability Standards Development Process

- EEl intends to provide a united *investor-owned utility* perspective and voice; our mission is not to develop standards, but rather to facilitate member involvement in that process and provide public policy direction
 - Smart Grid standards are on a fast track and have potentially significant reliability, financial, and public policy implications and business model impacts that EEl must address
 - CEOs support EEl's involvement in key strategic and public policy areas
- We recognize many groups are already moving ahead with standards development activities. Our goal is to engage as many of these players as we can to represent IOU interests with regard to strategic business issues and public policy matters

YOUR INPUT IS CRITICAL!



EEI's Approach To The Interoperability Standards Development Process (cont.)

- To accomplish its mission, EEI will:
 - Implement a process to enable our members to participate in and influence standards development processes
 - Identify significant gaps within the standards development process where IOU participation is absent or lacking
 - Identify and understand the key standards that have major business model or public policy implications for IOUs
 - Act as central communication and information resource on standards activities and their policy implications through internet workrooms
 - Develop strategic alliances and facilitate dialogue with industry groups, vendors, governance bodies, etc
- Through these efforts, EEI can be a strong industry-wide public policy voice at NIST, FERC, and with other policymakers



EI's Role In The Standards Development Process (SDO)

- **EI will facilitate and coordinate member participation in SDO process**
 - This is not a new role – EI has been doing this for many years
 - EI does not write standards but does facilitate member participation in such standards development processes
 - As a starting point, EI has long standing relationships with SDOs
 - IEC – International Electrotechnical Commission
 - ANSI – American National Standards Institute
 - IEEE – Institute of Electrical and Electronics Engineers
 - NFPA – National Fire Protection Association
 - NEMA – National Electrical Manufacturers Association
 - Will provide investor owned utility (IOU) perspective and liaison between IOUs and SDOs
 - Will ensure that IOU members participate in the standards process
- **Example--National Electric Safety Code (NESC)**

EEI (EURC) NESC Task Force

EEI - Electric Utility Representatives Coordinating (EURC) Task Force

EEI - IEEE NESC C2 Representatives

- Ameren
- American Electric Power
- Baltimore Gas & Electric
- Consumers Energy
- Dominion Virginia Power
- Exelon
- Florida Power & Light
- Georgia Power
- National Grid
- Northeast Utilities
- Oncor Electric Delivery
- Pacific Gas & Electric
- Progress Energy
- Xcel Energy

IEEE NESC C2 Representatives

- Alabama Power
- American Electric Power
- Oncor Electric Delivery
- Duke Energy
- Georgia Power
- Texas-New Mexico Power

IOU PERSPECTIVE IS DEVELOPED VIA TASK FORCE MEETINGS (Face-To-Face), CONFERENCE CALLS, E-MAIL LISTS, and USE OF THE STANDARDS WORKROOM

SDO - IEEE

(Institute of Electrical and Electronics Engineers)

Standard - NESC (ANSI C2)

(National Electric Safety Code -
American National Standards Institute)

- ◆ EPR - Electric Supply Private (EEI, SEE, AEIC)
- ◆ EPU - Electric Supply/Commercial Public (NRECA, APPA, RUC, etc.)
- ◆ Employees (IBEW)
- ◆ Manufacturers (NEMA)
- ◆ Consumer & Government (NARUC, OSHA, etc.)
- ◆ Professional Associations (IEEE, NSPE, etc.)
- ◆ CEE - Consulting Engineers & Erectors
- ◆ CPS - Commercial Private (NCTA, ATIS, etc.)

EI Approach To SDO Process

- Will prepare and maintain on-going Gap Analysis
 - Distribute survey that will:
 - Identify member participation gaps and areas of non-IOU participation
 - Communicate results to members and evaluate how to proceed
- Facilitate the development of IOU position on key standards
 - Provide resources for allowing IOU standard representatives to exchange ideas with all interested members—Smart Grid Workroom
 - Communicate IOU positions to broader EEI membership
 - Facilitate the development of strategic alliances between different stakeholders and user groups
- NIST Smart Grid Interoperability Framework Briefing (Sept. 24, 2009)
 - NIST Framework
 - Next Steps – SG Interoperability Panel
- Now let's hear from you



What Do You Think?

QUESTIONS and COMMENTS

