
Smart Grid / P2030 Status Report to 802.3

Robert M. Grow
Chair, P2030 Information Technology TF
bob.grow@ieee.org

Smart Grid

- Upgrade to the US electrical power grid
 - Two way power flow
 - Enhancement of renewable energy sources
 - Improve efficiency of operations
 - Facilitate energy conservation
 - Similar efforts in many countries
- Many activities
 - NIST given major role in identifying appropriate standards and driving “SDOs” to fill in gaps (www.nist.gov/smartgrid)
 - Significant stimulus funding driving efforts

P2030 Status

- **Guide for Smart Grid Interoperability of Energy Technology and Information Technology operation with the Electric Power System (EPS) and End-Use Applications and Loads**
 - Sponsor is SCC 21 – grouper.ieee.org/groups/scc21
 - Have held two WG meetings
 - Using listserv reflectors and mentor for documents
 - TFs holding interim calls and meetings
 - TF 1 – Power
 - TF 2 – Information Technology
 - TF 3 – Communications
 - Cross cutting issues (e.g., security)
- Plan three to four WG meetings in 2010

What does all this mean to 802

- Significant interest in communications
 - Home Area Network (HAN)
 - Meter reading
 - Networking will be used in generation, transmission, etc.
 - Some utilities resistance to information technology and communications industry push for use of IP protocols
- Push from some 802.x for inclusion in NIST list of standards
 - 802.3 is not on the list
 - General assumption that Ethernet will be used in Smart Grid
 - Wireless folk engaged in Priority Action Plan #2
 - General industry engagement in Smart Grid Interoperability Panel
- More information -- there will be a tutorial tonight