The Future of Energy: Smart Grid and Beyond

John D. McDonald, P.E.
Director, Technical Strategy & Policy Development
GE Energy Management – Digital Energy
IEEE Fellow
IEEE PES President (2006-2007)
IEEE Division VII Director (2008-2009)

Abstract: The purpose of this talk is to familiarize participants with a vision for the future of energy. The meeting starts with a discussion of key industry/societal trends in generation, transmission, distribution and the consumer. The “smarter grid” will highlight the intelligence that has already been implemented, and the new intelligence being added now. The Smart Grid technology roadmap will discuss the Smart Grid solutions of Distribution Optimization, Transmission Optimization, Asset Optimization, Demand Optimization, Smart Meters and Communications, and Workforce and Engineering Design Optimization. Three key visionary concepts to be covered are the greater value of the integration of key technology components and the importance of interoperability, the impact of high penetration of rooftop solar PV on the distribution system, and Intelligent Electronic Device (IED) integration and enterprise data management.

Speaker Bio

John D. McDonald, P.E., is Director, Technical Strategy and Policy Development for GE Energy’s Digital Energy business. John has 40 years of experience in the electric utility transmission and distribution industry. John received his B.S.E.E. and M.S.E.E. (Power Engineering) degrees from Purdue University, and an M.B.A. (Finance) degree from the University of California-Berkeley.

John is a Fellow of IEEE, and was awarded the IEEE Millennium Medal in 2000, the IEEE Power & Energy Society (PES) Excellence in Power Distribution Engineering Award in 2002, and the IEEE PES Substations Committee Distinguished Service Award in 2003. John is Past President of the IEEE PES, a member of the IEEE PES Nominations & Appointments Committee, a member of the IEEE PES Region 3 Scholarship Committee, the VP for Technical Activities for the US National Committee (USNC) of CIGRE, the Past Chair of the IEEE PES Substations Committee, and Chair of the Smart Grid Consumer Collaborative (SGCC) Board. John was the IEEE Division VII Director in 2008-2009. John was on the Board of Governors of the IEEE-SA (Standards Association) in 2010-2011, focusing on long term IEEE Smart Grid standards strategy.

Free pizza!