Call for Papers
IEEE Communications Surveys and Tutorials
Special Issue on Energy and Smart Grid

The next generation electric grid, also known as smart grid, is expected to be scalable, reliable, and secure and enhance efficient energy consumption and deployment of renewable and distributed energy generation. The modern communications and networking technologies will play a vital role in the future smart grid by supporting two-way energy and information flow and enabling efficient monitoring, control, and optimization of different grid functionalities and smart power devices. The emerging field of smart grid has introduced several new challenges for the communications and networking research communities. It has also created new multi-disciplinary research opportunities and potentials for collaborations with industries.

The aim of this special issue is to collect from academic and industrial players tutorials and surveys related to latest smart grid and energy related technologies and architectures. Contributions on major developments and updates on smart grid systems will be considered.

Topics of Interest:
The topics relevant to this special issue include but are not limited to:

- Communication Architectures and Protocols for Smart Grids
- Smart Grids for Green Communications and Green Computing, Green Data Centers
- Advanced Metering Infrastructure, Wide-area Monitoring Systems
- Power Line Communications and Physical Layer Design for Smart Grid Communications
- Integration of Green and Renewable (wind, solar, geothermal, etc.) Energy Sources
- Smart Grid Cyber Security, Intrusion Detection, False Data Injection Attacks
- Vehicle-to-Grid Networks and Interconnection of Electric Vehicles
- Home-area Energy Automation, ZigBEE and HomePlug Solutions, Demand Response

Only originally unpublished contributions and invited articles will be considered. Guidelines on paper formats are available at (http://dl.comsoc.org/livepubs/surveys/authors.html). Full papers should be submit to Manuscriptcentral (http://mc.manuscriptcentral.com/comst-ieee).

Important Dates:
Submission deadline: April 1, 2013
Author Notification: July 2013
Final Manuscript: September 2013
Publication: Q1 2014

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