

2010 IEEE Conference on Innovative Technologies for an Efficient and Reliable Electricity Supply

27–29 September 2010, The Westin Waltham Boston, Waltham, MA, USA

www.ieee-energy.org

Conference Chair

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Abstract Submission Procedure

Two page, PDF with maximum 500 words plus author(s) title, name, address, phone, fax, email, and organization affiliation must be submitted.

On a separate page, principal presenting author biography (maximum 100 words).

Email to:

submit@ieee-energy.org

Abstract Deadline

12 March 2010

Speaker Notification

14 May 2010

Final Paper Deadline

5 August 2010

Publishing Information

All papers and posters will be published on the conference CD-ROM and distributed to conference attendees. Selected full technical papers that meet the publishing requirements will be published in IEEE Xplore as part of the IEEE Conference Publication Program.

Submissions will be acknowledged via email. If you do not receive an acknowledgment, we did not receive your abstract. Please note: Accepted papers will require at least one author to register and pay the conference fee.

For more information:

info@ieee-energy.org

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IEEE Call for Papers

Purpose/Objective

To provide a forum to discuss new technologies and innovative applications of current technologies for generation, transmission, storage, monitoring, and demand management to ensure our ability to reliably meet our growing demand for electricity.

Focus

A systems approach to planning, developing, and integrating existing and future alternative/renewable electric power system technology into the “smart” electric grid.

Who should attend

Those involved in systems and technology for electrical energy production, distribution, and utilization from academia, industry, laboratories, nonprofits, and government.

Draft Program

Plenary Session

Keynote: DOE (to be confirmed)—policy as it relates to technology

Additional Plenary talks ...

- DoD energy
- NSTAR and National Grid
- Nuclear energy
- DOE renewable energy
- Smart/resilient grid

Technical Sessions

Peer-reviewed submitted papers and posters

Other aspects

- Tours
- Networking reception
- Student paper contest
- Business and funding panel
- Business of innovation in electric power
- Tutorials
- Exhibition

Suggested Tracks and Topics

Each technical track will feature some papers in modeling, analysis, and general system-thinking.

1. Power Management Systems

The “smart grid,” smart metering, feedback, and grid/cyber security

2. Large-scale Incorporation of Renewable Energy

Solar TE/PV; wind, mitigation of intermittent supply, geothermal, water–current, tidal, and wave power

3. Electricity and Vehicles

The future of PHEVs and EVs, vehicle-to-grid strategies, and on-board fuel versus electricity

4. Storage Technologies Strategies for the Grid

Hydro, flywheels, batteries, and compressed gas

5. Highly Distributed Energy Generation

Mini-nuclear, fuel cells, and CCHP

6. Innovations in Centralized Energy Production and Distribution

Nuclear fission and fusion, superconducting technologies, and combined-cycle and hybrid generators