IEEE ENERGY 2030

Towards A Sustainable Energy Infrastructure

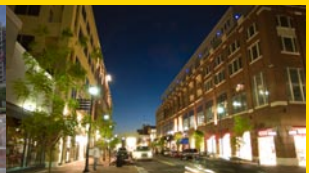
November 17 – 18, 2008
Atlanta, GA, USA

Conference initiated by the IEEE TA New Technology Directions Committee. Co-sponsorship by IEEE-USA; IEEE Standards Association; and the following IEEE Societies: Industry Applications Society, Power Electronics Society, and the Power and Energy Society.

PRELIMINARY

CALL FOR PAPERS

energy 2030



This new conference will provide a forum for the exchange of ideas amongst experts from a broad range of disciplines on the technology, policy and economic framework required for the creation of a global sustainable energy infrastructure by 2030. The IEEE, as a global technology leader in electrical and related technologies, with 43 societies and 370,000 members, is uniquely positioned to help define what the transformed infrastructure is likely to look like, and to initiate the discussion on the challenges that need to be overcome to achieve success.

Original papers are invited from authors on topics that are relevant to the issues surrounding sustainable energy. New electrical technology developments that help reduce energy use, carbon emissions, or fossil fuel consumption are suitable for presentation. Also invited are papers that present technology reviews, including perspectives from different geographic regions, technology implications, market and policy interactions and challenges. Papers should address key questions of long-term sustainability, including CO_2 curtailment, reduction in fossil fuel use, policy changes for large scale adoption, and significant barriers to adoption and commercial success. The conference will include industry presentations and an exhibition to showcase new technologies that will impact energy sustainability over the next 25 years.

Topic areas include but are not limited to:

REDUCED CARBON GENERATION. Renewable energy technologies including solar and wind, fuel cells, hydrogen infrastructure, energy storage, carbon cap and trade or carbon tax, market incentives, grid management, economics of renewable energy, solutions for developing countries.

SMART GRID AND POWER DELIVERY. Power delivery issues to support sustainable energy, Smart Grid, grid control with high penetration of renewables, real-time-pricing and impact on grid operation, microgrids, delivering "green" electrons, energy storage, carbon cap and trade or carbon tax, market incentives, grid solutions for developing countries.

REPLACING FOSSIL FUEL CONSUMPTION AT THE LOAD POINT. Hybrid and plug-in hybrid vehicles, impact of PHEVs on grid management and control, electric vehicles and energy storage technologies, V2G technologies, fuel cell cars, heating and cooling loads, energy appliances, impact of carbon tax, solutions for developing countries.

REDUCING ENERGY CONSUMPTION. Lighting technologies (LED, OLED, other), improving energy efficiency in industrial, commercial and consumer use, reducing heat load in data centers, reducing per family energy demand, real-time pricing of electricity, creating markets for "green" electrons, smart homes, impact of carbon tax, solutions for developing countries.

Prospective authors should submit an abstract and digest for the paper totaling no more than five pages to the address shown below.

CONTACT INFORMATION

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IMPORTANT DATES

Digests Due:	July 31, 2008
Acceptance Notification:	Sept. 1, 2008
Final Papers Due:	Oct. 15, 2008

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