

The IEEE Power & Energy Society (PES) has proposed the creation of two new Transactions; one on Smart Grid and the other on Sustainable Energy. This was the first time in 25 years that PES had submitted a proposal for new journals. The scopes of the two new IEEE Transactions are given as follows:

**IEEE Transactions on Smart Grid** - a cross disciplinary and internationally archival journal aimed at disseminating the results of research on smart grid that relates to energy generation, transmission, distribution and delivery. The journal will publish original research on theories, technologies, design, policies, and implementation of smart grid. There is so much interest at all levels of public, industry, and government, on promoting the utilization of smart grid that the time seems to be ripe for launching an IEEE Transactions on Smart Grid. Smart grid is receiving intense and growing interests across a wide range of fields including engineering, science, and economics. Although IEEE is the largest established group addressing smart grid, other entities are actively seeking to establish a journal on this topic. The launch of an IEEE Transactions on Smart Grid at this juncture in time will help promote the subject of smart grid by more a prestigious venue among all interested entities. The topical issues considered by the Transactions include the applications of smart grid to cyber and physical security systems, energy management systems (with applications to building and home automation), plug-in vehicles and low-carbon transportation alternatives, intelligent monitoring and outage management, wide area protection, communication and control in energy systems, smart sensors and advanced metering infrastructure, and distributed energy resources. The Transactions is technically cosponsored by a number of IEEE Societies including Power & Energy, Computer, Communications, Computational Intelligence, Signal Processing, Power Electronics, Industry Applications, and Industrial Electronics Societies. Starting in June 2010, the Transactions will be published quarterly in March, June, September, and December of each year.

**IEEE Transactions on Sustainable Energy** is a cross disciplinary and internationally archival journal aimed at disseminating results of research on sustainable energy that relates to, arises from, or deliberately influences energy generation, transmission, distribution and delivery. There are a few IEEE and non-IEEE journals that emphasize a certain aspect of sustainable energy and have a primary focus on a distinct topic within the vast subject of sustainable energy. For example, IEEE Transactions on Energy Conversion addresses the energy conversion aspects of sustainable energy rather than considering a larger picture on the design and the implementation of such technologies as fuel cell and small hydro. This fragmentation would usually lack a systematic view of sustainable energy technology for researchers and practitioners. In essence, the large number IEEE journals (over 30) and non-IEEE journals (about 60) that are presently targeted by the sustainable energy clearly demonstrates the lack of a focused venue that covers the scope of the field. At the same time, existing single journals rarely publish a comprehensive coverage of any single sustainable energy technology, and will likely remain unaffected by the proposed Transactions. The journal will publish original research on theories and development on principles of sustainable energy technologies and systems. The Transactions will also welcome manuscripts on design, implementation and evaluation of power systems that are affected by sustainable energy. Surveys of existing work on sustainable energy may also be considered for publication when they propose a new viewpoint on history and a challenging perspective on the future of sustainable energy. The Transactions is financially cosponsored by Power & Energy Society, Power Electronics Society, Industrial Electronics Society, and Industry Applications Society. The Transactions is technically cosponsored by several IEEE Societies including the Power & Energy Society, Power Electronics, Industry Applications, Industrial

Electronics, Social Implication of Technology, and Photonics Societies. Starting in April 2010, the Transactions will be published quarterly in January, April, July, and October of each year.

Listed below are the scopes of the existing IEEE PES Transactions which would complement the topics proposed by the two new Transactions.

#### **IEEE Transactions on Energy Conversion**

Research, development, design, application, construction, installation, and operation of electric power generating facilities (along with their conventional, nuclear, or renewable sources) for the safe, reliable, and economic generation of electrical energy for general industrial, commercial, public, and domestic consumption, and electromechanical energy conversion for the use of electrical energy.

#### **IEEE Transactions on Power Delivery**

The scope of the Society embraces planning, research, development, design, application, construction, installation and operation of apparatus, equipment, structures, materials and systems for the safe, reliable and economic generation, transmission, distribution, conversion, measurement and control of electric energy. It includes the developing of engineering standards, the providing of information and instruction to the public and to legislators, as well as technical scientific, literary, educational and other activities that contribute to the electric power discipline or utilize the techniques or products within this discipline.

#### **IEEE Transactions on Power Systems**

Requirements, planning, analysis, reliability, operation, and economics of electrical generating, transmission, and distribution systems for industrial, commercial, public, and domestic consumption.

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