

# Smart Grid Organizations

## Innovate with IEEE Information

Whether you're researching intelligent appliances, home automation, power line networking, renewable energy, or any smart grid technology, IEEE is the only organization able to provide the diversity of expertise, information, resources, and vision needed to realize the smart grid's full promise and potential. With the intuitive IEEE *Xplore*® digital library, you'll find the journal articles, conference proceedings, and standards needed to lead smart grid innovation—and boost your company's bottom line.

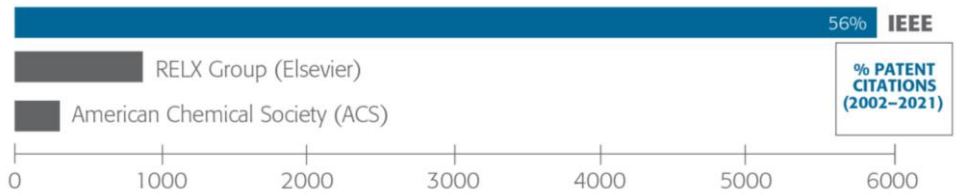
### IEEE Information Drives Smart Grid Patents

Today's corporations deliver new, patented technologies at an increasing pace, based on research that is at the forefront of the industry. Organizations like ABB, IBM, Cisco, and Siemens all cite high proportions of IEEE literature in patents for new technology.

Patent references to IEEE papers have increased 864% since 1997 and recent studies of the top patenting companies show that **IEEE scientific and technical articles are cited nearly 3 times more often than any other scholarly or commercial publisher.**

### IEEE: the Top-Cited Publisher in Smart Grid Patents

IEEE is the top scientific and technical research source with 56% of all patent citations in smart grid.



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### Essential IEEE Content in Smart Grid Technology

IEEE content remains crucial to the smart grid industry—providing research in a wide variety of topics through the IEEE *Xplore* digital library.

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Counts are accurate as of November 2021

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### IEEE Transactions on Smart Grid

This quarterly journal features research on smart grid technologies and systems relating to energy generation, transmission, distribution, and delivery.

"IEEE is leveraging its strong foundation and collaborating [with others] to evolve standards, share best practices, publish developments, and provide related educational offerings to advance [smart-grid] technology and facilitate successful deployments throughout the world."

—Wanda Reder  
Past President of IEEE PES

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## IEEE Leads Smart Grid Technology

IEEE enables innovation as a leading developer and producer of content across a wide range of industries, from standards to conferences, eBooks and eLearning courses for aspiring individuals and growing organizations. Below is a sampling of IEEE content.

### Standards

Researchers and developers of smart grid technologies rely on IEEE's significant breadth of technology expertise, resources, and standards. With over 200 existing standards relevant to smart grid, and many standards in development, IEEE is uniquely positioned to guide smart grid interoperability.

IEEE 2030-2011™	IEEE Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications and Loads
IEEE 802 LAN/MAN	Standards for Local and Metropolitan Area Networks
1547-2003	Standard for Interconnecting Distributed Resources with Electric Power Systems
1159-2009	Recommended Practice for Monitoring Electric Power Quality
762-2006	Standard Definitions for Use in Reporting Electric Generating Unit Reliability, Availability, and Productivity
IEEE Foundations for Smart Grid	A collection of standards in diverse technology fields, including over 20 IEEE standards named in the NIST Framework and Roadmap for Smart Grid Interoperability Standards.
IEEE 3000 Standards Collection™ For Industrial & Commercial Power Systems	Industry-proven standards on every key aspect of industrial and commercial power systems.

### Journals

- IEEE Transactions on Smart Grid*
- IEEE Transactions on Sustainable Energy*

### Conferences

- IEEE Green Technologies Conference
- IEEE Innovative Smart Grid Technologies
- IEEE International Conference on Smart Grid Communications
- IEEE International Conference on Smart Grid Engineering
- IEEE International Energy Conference
- IEEE International Workshop on Smart Grid Modeling and Simulation
- IEEE/PES Transmission & Distribution Conference & Exposition
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