

Call for Papers IET Generation Transmission & Distribution

Special Issue:

Power Electronic Converter Systems for Integration of Renewable Energy Sources

The contribution from renewable energy resources within the over all energy mix is increasing continuously as sustainable alternatives to large fossil fuel driven central power plants.

However it also brings a number of significant challenges related not only to the nature of the intermittent nature of such sources itself but also to its effect of interfacing power electronic converter systems. It is a more crucial issue where these renewables constitute a significant portion of the total system demand.

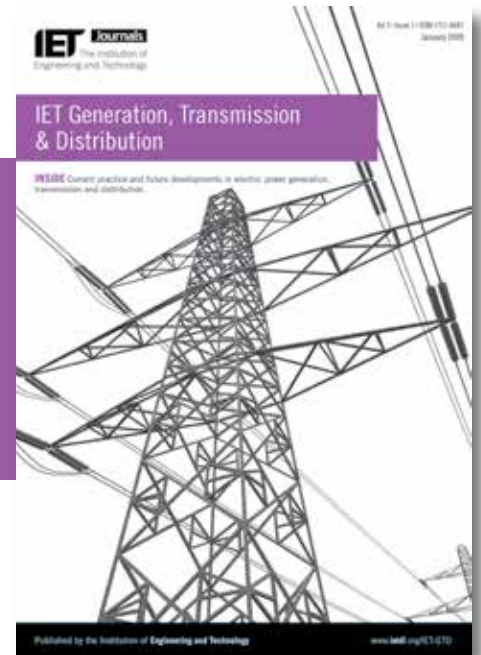
Recent developments in power electronic converter systems have undergone a fast evolution. Integration of renewables using power electronic converter systems is therefore a very timely topic for power systems researchers all around the world. A special issue in IET Generation, Transmission and Distribution may cater very well for the community to attract quality submission.

Following topics could be highlighted within the broad topic but not limited to:

- Converter topology regarding system integration
- Application of control and protection algorithms
- Use of HVDC/FACTS to integrate large scale Wind and Solar
- Use of energy storage technology
- Possible interaction of renewable converter systems with surrounding AC systems
- Improvement of grid stability with renewable penetration
- Grid interfaces for DC Microgrids

The Authors should indicate "Special Issue on Power Electronic Converter Systems for Integration of Renewable Energy Sources" when uploading their manuscript online. Any enquiries can be made to the IET or the Guest Editors.

All submissions are subject to the journal's peer-review procedures. The authors should follow the journal's Author Guide at <http://digital-library.theiet.org/journals/author-guide> when preparing papers for submission to the Special Issue.



Important dates:

Submission deadline:
30 May 2014

**Tentative
publication date:**
February 2015

For enquiries regarding this Special Issue please contact the Guest Editors:

Dr Rajat Majumder
SIEMENS Energy Inc, USA
E: rajat.majumder@siemens.com

Dr Balarko Chaudhuri
Imperial College London, UK
E: b.chaudhuri@imperial.ac.uk

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Contact us:

IET Generation Transmission & Distribution

IET Research Journals Dept.
Michael Faraday House
Six Hills Way
Stevenage
SG1 2AY
United Kingdom

Kruna Vukmirovic, Journal Development Editor

T: +44 (0)1438 765504

E: kvukmirovic@theiet.org

www.ietdl.org/IET-GTD

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Michael Faraday House, Six Hills Way, Stevenage, SG1 2AY United Kingdom