



The 38th Annual Conference of the
IEEE Industrial Electronics Society

IECON' 2012



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Proposal for IECON 2012 Special Session **Send your proposal to the SS chairs**

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Special Session on: **Microgrids**

Special Session Organizers (names and contact emails):

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Technical Outline of the Session (50 words) and Topics:

Worldwide electrical grids are expecting to become smarter in the next future. In this sense, the increasing interest in intelligent microgrids able to operate in island or connected to the grid, seems to be a keypoint to cope with new functionalities, as well as integration of renewable energy resources.

Topics of interest include, but are not limited to:

- Distributed generation systems
- Distributed storage energy systems
- Islanded microgrids for rural and isolated areas
- Integration of renewable energy systems
- Configuration of AC and DC microgrids
- Modeling, control and management of microgrids
- Coordinated control for power quality in microgrids: faults, low voltage ride-through
- Hierarchical control of smart microgrids
- Fault tolerance in microgrids
- Planning and development of microgrid projects

IES Technical Committee Sponsoring the Special Session (if any):

Renewable Energy Systems TC