Call for Papers
IEEE Open Access Journal of Power and Energy

Special Section on
"Microgrids Planning with Demand Response and Energy Storage Options"

Over the last few years, due to technical, economic, and societal aspects, microgrids have been empowered as one of the key variations in shaping the electric power infrastructure. Moreover, the growing penetration of renewable energy resources have been the driver for the development of microgrids. Well-coordinated and managed microgrids can deliver precious benefits for both customers and utilities. In this situation, appropriate planning for microgrids is critical to ensure benefits in power system operation, return of investment ae well as environmental effects. However, managing such a wide and dynamic set of resources can become overwhelming. Demand response and energy storage are two key factors for managing the integrated resources in microgrids. This Special Section in IEEE Open Access Journal of Power and Energy will cover this promising and dynamic area of research and development, while focusing on computational and technological aspects. Topics of interest of this Special Section include, but are not limited to:

1. Planning, and flexibility contribution of demand response and energy storage systems for supporting microgrid integration of renewable generation
2. Design and management of energy storage systems at the demand side for improving the holistic efficiency of energy utilization in microgrids
3. Reliability, sustainability, flexibility, and resiliency of microgrids including demand response, energy storage and infrastructures for electric vehicle charging
4. Engineering experiences and demonstration of energy storage systems in microgrids with renewable generation
5. Integrated resource planning and design of microgrids including multi-carrier energy storage
6. Planning of monitoring schemes for smart microgrids
7. Distribution management systems and planning of multi microgrids

This Special Section solicits original work that must not be under consideration for publication in other venues. Two-page extended abstracts are solicited for the first round of reviews. Authors of selected abstracts will be invited to submit the full papers in the second round. Authors should refer to the IEEE Open Access Journal of Power and Energy author guidelines at http://www.ieee-pes.org/publications/information-for-authors for information about content and formatting of submissions. Please submit a PDF version of the abstracts including a cover letter with authors' contact information to the Guest Editor-in-Chief of this Special Section, Miadreza Shafie-khah, via e-mail at: mshafiek@univaasa.fi.

Please note: Authors are required to pay a publication fee after their paper has been accepted ($1,350 per manuscript up to a maximum of 8 published pages; $150 per published page in excess of 8 pages).

Important Dates:
Dec 31, 2020: Deadline for extended abstract submission
Feb 15, 2021: Completion for first-round of reviews
May 15, 2021: Deadline for full paper submission
Nov 30, 2021: Final decision notification

Dec 05, 2021: Publication materials due
Publication of Special Section – January 2022

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