

Special Issue

Acceleration of Renewable Energies Expansion and Harvesting Technologies

Message from the Guest Editors

This Special Issue is concentrated, but not limited, on the following subjects:

- Proposing economic analysis for the expansion of renewable energy sources considering operation constraints and uncertainties in both transmission and distribution systems.
- Sizing and siting multiple energy storage systems (e.g., battery energy storages, hydrogen storages, etc.) to provide the required flexibility considering both economic and practical assessment.
- Proposing optimal solutions to figure out the required flexibility in system based on the installed renewable energy capacity.
- Designing capacity, day-ahead, and real-time markets mechanism for involving renewable energies and storage systems in them.
- Proposing novel ideas for uncertainty management under a high penetration of renewable energy sources by using energy storage systems.
- Fairly dividing the required flexibility among agents who are more interested in energy arbitrage in both transmission and distribution systems.

Guest Editors

Dr. Seyed Masoud Mohseni-Bonab

1. Digital Systems, Hydro-Québec Research Institute (IREQ), Varennes, QC J3X 1S1, Canada
2. Electrical and Computer Engineering, Université Laval, Québec, QC G1V 0A6, Canada

Dr. Abbas Rabiee

1. UCD Energy Institute, University College Dublin, Belfield, D04 V1W8 Dublin, Ireland
2. Department of Electrical Engineering, University of Zanjan, 77978-45157 Zanjan, Iran

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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario
Institute of Technology, Oshawa, ON L1G 0C5, Canada

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