Special Issue

Protection of Future Electricity Systems

Message from the Guest Editors

With this Special Issue, we would like to draw special attention to those protective solutions and ideas which can best support future power systems, and thus facilitate the continuing decarbonization of electrical energy generation. The development and increased availability of reliable high-bandwidth communications; high-efficiency real-time processing systems; new signal processing algorithms; and the development of advanced measurement and sensing technologies are but a few examples of possible areas of innovation from which the protective systems could benefit. Therefore, both conventional and unconventional interdisciplinary solutions are welcome, including adaptive and/or active methods. We also encourage contributions covering systematic, realistic assessment of the existing protection system performance, in particular, evaluating how protection effectiveness can be affected by the current and anticipated changes in electricity generation, transmission, and distribution. The influencing factors could include increased penetration of inverter-connected renewables; the changing nature of loads; new electrical grid architectures; the impact of EV chargers.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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