Special Issue

Distributed Energy Systems

Message from the Guest Editor

Distributed energy systems (DES), also called distributed generation or on-site generation when referring to electricity supply, refers to the electrical generation performed by a variety of small, grid-connected, or distribution system-connected devices, rather than transmitting energy over the electric grid from a large, centralized facility. This kind of systems use renewable energy (photovoltaic, wind power, small hydro, biomass, etc.) but they can also use fossil-fuel technologies (diesel generator, etc.), with power typically lower than 10 MW and in many cases hybrid systems (multiple generation and storage components) are used. Taking into account all the above, this Special Issue is dedicated to any topic related to "Distributed Energy Systems", grid-connected or off-grid systems, using renewable, fossil-fuel technologies or hybrid systems, with or without storage. It includes modeling, control, protection, operation, sizing, simulation, optimization, grid stability, and other issues, considering technical, or environmental aspects.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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