

Special Issue

Advances in Power System for Energy Storage

Message from the Guest Editors

The global transition to cleaner, sustainable energy has driven major progress in energy storage technologies and their integration into modern power systems. Energy storage is vital for integrating renewable sources, improving power quality, grid stability, and enabling smart energy management. This Special Issue focuses on recent advances and practical solutions in energy storage integration. We welcome original research, reviews, and case studies on topics such as renewable energy integration, hybrid systems, battery energy storage systems (BESSs), power electronics, grid management, power quality, and AI in power system optimization. We especially encourage work on control strategies, modeling, energy-saving methods, demand-side management, and emerging technologies like vehicle-to-grid (V2G) and distributed energy resources (DERs). Topics related to smart grids, microgrids, and battery management systems (BMSs) are also welcome. This issue provides a platform for researchers, engineers, and professionals to share innovations that support efficient, reliable, and intelligent power systems.

Guest Editors

Dr. Iñigo Aramendia

Electrical Engineering Department, University of the Basque Country
UPV/EHU, 01006 Vitoria-Gasteiz, Spain

Dr. Ekaitz Zulueta

Department of System Engineering and Automatic Control-
Engineering, College of Vitoria-Gasteiz, University of the Basque
Country, Nieves Cano, 12, 01006 Vitoria-Gasteiz, Spain

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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