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## Smart Innovations in the Energy Markets: Past, Present and the Future

Guest Editors:

**Dr. Yash Chawla**

Department of Operations  
Research and Business  
Intelligence, Faculty of Computer  
Science and Management,  
Wrocław University of Science  
and Technology, 50-370 Wrocław,  
Poland

**Prof. Dr. Anna Kowalska-  
Pyzalska**

Department of Operations  
Research and Business  
Intelligence, Faculty of Computer  
Science and Management,  
Wrocław University of Science  
and Technology, 50-370 Wrocław,  
Poland

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### Message from the Guest Editors

Dear Colleagues,

The beginning of the 2<sup>nd</sup> decade of 21<sup>st</sup> century marked the revival of the fourth industrial revolution, known as Industry 4.0, where information and communication technology (ICT) has revolutionized the way we live, connect, communicate, do business, govern and much more. Both people and things are becoming smarter by the day and indications of 5.0 phase are fascinating. In these circumstances, fulfilling the demand for energy is a challenge faced by countries all over the world. The COVID-19 pandemic brought about a drastic change in the day-to-day activities as well as the energy usage patterns of individuals and businesses globally. This Special Issue aims to be a compilation of original research articles and review articles which highlight the past, present and future of smart innovations in the energy sector, as a way to tackle the challenges for researchers and practitioners today and in times to come. All the subject areas of *Energies* journal would be covered by this Special Issue.

Dr. Yash Chawla  
Prof. Dr. Anna Kowalska-Pyzalska  
*Guest Editors*



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**Special** Issue



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## Editor-in-Chief

### Prof. Dr. Enrico Sciubba

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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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*Energies* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
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