

## Special Issue

# Research Advances in Modeling, Optimization, and Control of Distributed Energy Systems

### Message from the Guest Editors

This Special Issue addresses problems related to the planning and operation of distributed energy systems. It seeks high-quality papers that focus on the planning, management and control of these systems. With the increasing integration of small renewable energy resources, these issues have become very important. Several aspects have to be considered, such as the following:

- Optimal operation that takes into account the contribution of small production units.
- Demand-side management and load shedding that favors the use of intermittent production units at the time of their availability.
- Accounting for instability problems due to the variable production of units.
- In the case of available storage units, managing the use of the energy stored and used in the network.

In this Special Issue, papers addressing these challenges and others related to the modeling, optimization, and control of distributed energy systems will be considered.

---

### Guest Editors

Prof. Dr. Yskandar M. Hamam

1. The Department of Electrical Engineering, Tshwane University of Technology, Pretoria, South Africa
2. The Ecole Supérieure de Electronique and Electrotechnique, Noisy le Grand, France

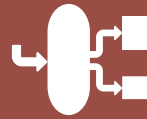
Prof. Dr. Adedayo Ademola Yusuff

Department of Electrical and Smart Systems Engineering, University of South Africa, Corner of Christiaan de Wet Road & Pioneer Avenue, 1709 Gauteng, FL, South Africa

---

### Deadline for manuscript submissions

30 June 2026



## Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/si/237447](https://mdpi.com/si/237447)

*Processes*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[processes@mdpi.com](mailto:processes@mdpi.com)

[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)





# Processes

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.5



[mdpi.com/journal/  
processes](https://mdpi.com/journal/processes)



## About the Journal

### Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto  
Department of Drug Science and Technology, University of Turin, Via P.  
Giuria 9, 10125 Turin, Italy

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

#### Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))