

## Special Issue

# Decision Support Systems for Improving the Construction and Maintenance of Renewable Energy Projects

### Message from the Guest Editors

Renewable energy projects have recently gained popularity due to their low adverse environmental impacts. While the improvement of the construction and maintenance of such projects requires that project and operation managers make the right decisions in a timely fashion, the complexity and novelty of these projects leads to numerous challenges related to decision-making. Renewable energy projects involve numerous uncertain factors; these projects often require managers to coordinate many complex and dynamic processes for decision-making; and managers must consider sometimes contradictory criteria and/or objectives for decision-making. In recent years, the application of advanced modeling and computational techniques has emerged in different engineering disciplines to develop decision support systems for supporting practitioners in dealing with such challenges. This Special Issue focuses on the development and application of decision support systems for improving the construction and maintenance of renewable energy projects. It also includes extensions of selected papers from the 9th Asia-Pacific International Symposium on Advanced Reliability and Maintenance Modelling

---

### Guest Editors

Prof. Dr. Aminah Robinson Fayek

Department of Civil and Environmental Engineering, University of Alberta, Edmonton, AB T6G 2R3, Canada

Dr. Nima Gerami Seresht

Department of Mechanical & Construction Engineering, Faculty of Engineering and Environment, Northumbria University, Newcastle upon Tyne NE1 8QH, UK

---

### Deadline for manuscript submissions

closed (31 March 2021)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/40563](https://mdpi.com/si/40563)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

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

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)