# Special Issue

# Towards Sustainable Energy: Renewable Energy Utilization and Near-Zero Carbon Regulation Technologies in Modern Industrial Parks

## Message from the Guest Editors

The low-carbon development of the energy economy has become a common goal worldwide. As major consumers of energy, modern industrial parks play an increasingly important role in carbon reduction. Modern industrial parks establish multi-energy complementary power networks by integrating energy forms such as photovoltaics, wind power, natural gas, energy storage, and electric vehicles. Different kinds of energy (such as renewable energy, traditional energy, and energy storage facilities) often reduce carbon emissions through the dynamic interaction technology of smart microgrids. This Special Issue welcomes theoretical and practical contributions aimed at further understanding of smart grid related techniques, including time-series processing technology, load-generation forecasting technology, probabilistic fault warning technology, multimodal data processing technology, renewable energy fluctuation prediction, vehicle network interaction regulation, new energy storage forms, carbon equivalence and certification technology, and comprehensive energy efficiency evaluation technology. It seeks original research articles as well as review articles.

## Guest Editors

Dr. Xianbo Wang

Dr. Zhidong Li

Dr. Tao Tao

## Deadline for manuscript submissions

30 April 2026

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

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## 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

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