

Special Issue

Photovoltaic System Power Generation Performance Analysis

Message from the Guest Editors

Over the recent decade, the global installation capacity of photovoltaic (PV) systems has skyrocketed. By the estimation of the International Energy Agency Photovoltaic Power Systems Programme (IEA PVPS), the global installed PV capacity could have hit 260 GW in 2022. With such huge installation capacity, the operation of PV systems with high degrees of efficiency, reliability, and safety is more significant than ever. Nevertheless, the PV modules are installed in complicated outdoor conditions, suffering from the harsh exposure, daily thermal cycle, moisture invasion, etc. The performance analysis became a popular method for evaluating the health status of PV systems.

Guest Editors

Dr. Jingwei Zhang

Prof. Dr. Frank U. Hamelmann

Dr. Md. Rokonzaman

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

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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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