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PV System Design and Performance

Guest Editor:

Prof. Dr. Wilfried Van Sark

Copernicus Institute of Sustainable Development,
Utrecht University, Princetonlaan
8, 3584 CB Utrecht, The
Netherlands

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Message from the Guest Editor

Dear colleagues,

Photovoltaic (PV) solar technology has been rapidly and continuously growing in the past decades leading to ~300 GWp installed capacity globally, and this has led to enormous price reductions. The strength of the technology is its modular design, and PV power plants range from a few PV modules (~1 kWp) to millions (~250 MWp). Design of such systems depends on the scale level: residential systems are typically roof-based, either flat or tilted, while large systems allow to design for maximum annual yield but also require intricate electrical layouts with multiple inverters and connections to medium voltage transmission networks. Additionally, operation is scale dependent.

This Special Issue solicits papers with original research and studies related to the above-mentioned topics, including, but not limited to, PV system design on residential and larger scales; methods for operational control and analysis; failure detection; performance analysis of systems; mapping performance differences; performance variability; degradation of systems and modules.

Dr. Wilfried van Sark
Guest Editor



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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

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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