

Special Issue

Photovoltaic Power Generation Systems

Message from the Guest Editors

PV power plants of hundreds of MWp became the new standard in recent years, placing solar PV as the first-choice renewable energy to face global climatic change in the coming decades. With the progress of PV technology and the reduced power tolerance, expected energy production faces depreciated external factors: irregular terrains, which may enlarge the mismatch losses due to the misalignment of the modules, areas more prone to soiling due to the local wind patterns and wind variations, which may induce thermal stress in the PV modules, affecting the lifespan of the PV plant. These are some examples that may affect the costs of new projects regarding the initial inversion and lifespan of a PV power plant, as well as the maintenance logistic in the PV plant or floating solar. For this Special Issue, original research articles and reviews are welcome. Specific research areas to be covered may include (but are not limited to) the following:

- PV solar power plants
- PV modules
- aging
- PV thermal behaviour
- soiling
- PV applications
- quality control
- PV measurements
- monofacial and bifacial PV generators
- floating PV

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