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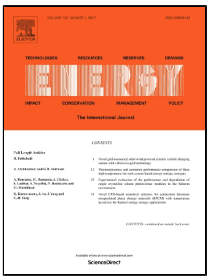

Evaluation of Data-Driven Models for Predicting Solar Photovoltaics Power Output

Salim Moslehi, T. Agami Reddy, Srinivas Katipamula

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Highlights:

- Various data collection and modeling scenarios to predict PV power were evaluated.
- Inverse models of PV power output solely based on climatic data are very accurate.
- Inclusion of incidence angle modifier improves PV power model prediction accuracy.
- Wind velocity found to be statistically insignificant in PV power forecast models.
- PV power models are accurate even if only solar horizontal radiation is measured.

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