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WEIDONG XIAO, The University of Sydney, Australia Weidong Xiao is an Associate Professor within the University of Sydney's School of Electrical and Information Engineering. His research interests include PV power systems, power electronics, dynamic systems and control, and industry applications.

This study presents a systematic way to evaluate reliability performance of large grid-connected photovoltaic (PV) power systems considering variation of input power and ambient-condition-dependent failure rates of critical components including PV modules, inverters, and capacitors. State enumeration is used to analyze real-life grid-connected PV systems. ...

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