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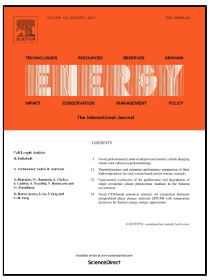

Power Pinch Analysis for Optimal Sizing of Renewable-based Isolated System with Uncertainties

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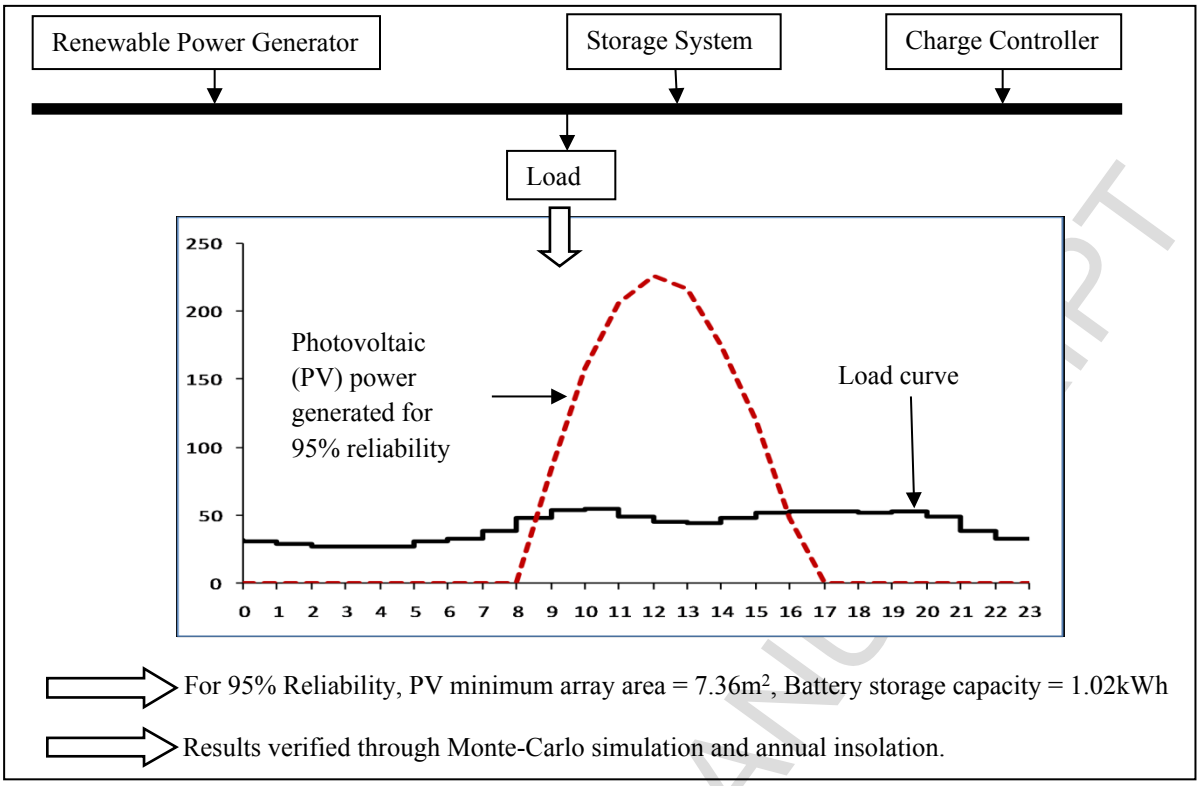

- For 95% Reliability, PV minimum array area = 7.36m^2, Battery storage capacity = 1.02kWh
- Results verified through Monte-Carlo simulation and annual insolation.