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Title: Optimal design of solar power generation system

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Abstract A methodology for estimating the optimal distribution of photovoltaic modules with a fixed tilt angle in ground-mounted photovoltaic power plants has been described.

In this paper, we determine, at design time, the optimal budget allocation such that the system, when commissioned, would maximize its anticipated revenue in the day-ahead market.

The proposed work can be exploited by decision-makers in the solar energy area for optimal design and analysis of grid-connected solar photovoltaic systems.

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