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Exergy analysis of a building integrated photovoltaic (BIPV) generator of an energy efficient house

In this paper, electrical and exergy analysis of a BIPV generator is presented. Electrical efficiency was found to vary between 13.9% and 17.6% while the indoor Exergy varied from 25.1% to 35.2% between 0900 and 1630hours. Exergy analysis, which deals with maximum energy available from the BIPV generator, gives a more realistic model of the impact that integrated photovoltaic panels have on the built environment.

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