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	Author:	Mohan Lal Kolhe, J.C. Joshi, Ganga Agnihotri, A.M. Shandilya
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New journals Conference Announcements Affliliate Links	Abstract: Keywords:	The use of pay-back period analysis for economic evaluation of solar photovoltaic (PV) system reinforces the importance of the duration of the system. In a dynamic economic environment, the cost of energy increases at a faster rate than the common inflation rate. A time can be ascertained at which the market entry of the PV system will be profitable, i.e. at which the pay-back time drops below a value considered as the market threshold, provided the parameters describing the dynamic economic system remain unchanged. The market penetration of the PV system has been determined in Indian economic conditions and found to depend mainly on PV array costs and energy income reinvestment rate. The low PV array cost, high-energy income reinvestment rate, high solar cell reference efficiency and high battery efficiency have a substantial effect on the reduction of the energy price and pay-back period with early market penetration by the PV system.
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