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Energy, exergy, environmental impact, and economic analyses of evacuated tube compound parabolic concentrator—powered solar thermal domestic water heating system

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Abstract

In the reported study, a dynamic analytical model is developed to propose the energy, exergy, environmental impact, and economic analyses of the water heating system at Jaipur (India) with an evacuated tube compound parabolic concentrator field of a total area of 81 m^2 . Consequently, the model is used to perform parametric studies to report the effect of