

290 kWh environmental protection

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where GHGE is the embodied greenhouse gas emissions and GHGo is the annual greenhouse gas emission savings of the system. GHGE is the sum of the emissions occurred during fabrication, transportation and installation stages for PV modules and balance of the system (BOS):

This paper examines the environmental impact of a grid-connected PV system in Kocaeli, Turkey, supported by East Marmara Development Agency to contribute local economic and environmental sustainability goals. For this purpose, energy payback time and greenhouse payback time analysis is carried out in terms of calculated total embodied data and measured annual operation data. The results indicate that the system spends approximately 12.68% of its lifetime to payback its total embodied energy and 10.67% to save its total embodied greenhouse gas emissions.

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