

عنوان مقاله:

Simulation and evaluation of solar photovoltaicsystem for a university

محل انتشار:

چهارمین کنفرانس بین المللی دوسالانه نفت، گاز و پتروشیمی (سال: 1401)

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خلاصه مقاله:

The reduction of fuel resources and the increase in the harmful effects of greenhousegases (GHG), have doubled the importance of exploit renewable energy sources. Oneof the most affordable of these energies in many parts of the world, including Iran, issolar energy. Iran is located in a high-irradiance region and possesses excellentpotential to harvest solar energy. This paper reports the design and economic analysisof an on-grid solar system at the University of Abhar, Iran. The proposed system wassimulated in PVsyst by inspecting the case study region and calculating the energylosses, output power, power injection into the grid, and output power reduction. It wasfound that the proposed system had an annual output energy of FII. A MWh. Inaddition, the proposed photovoltaic (PV) system could reduce .COY emissions by 197 tons per year

كلمات كليدى:

Photovoltaic, PVsyst, COY emission, Renewable energy

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