

عنوان مقاله:

Optimal design of the γ MW photovoltaic powerplant connected to the distribution network

محل انتشار:

هفتمین کنفرانس بین المللی پژوهش های کاربردی در علوم و مهندسی (سال: 1402)

تعداد صفحات اصل مقاله: 11

نویسنده:

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خلاصه مقاله:

Iran is one of the countries with high potential in solar energy, which is ۳۰۰ sunny days from ۳۶۵ days a year in more than two thirds of its area and the average sun is ۴.۵ to ۵.۵ kilowatthours per square meter per day. The cost of using fossil fuels is much higher than solar energy and grid electricity. The proposed photovoltaic system in PV system software using the geographical information of Mahabad city and also the effect of temperature and intensity of radiation on the efficiency of photovoltaic system has been investigated, also the effect of temperature damages and electronegative power system on the output power of the photovoltaic system. The PV module is selected from the internal database and the inverter from the internal database. The proposed array and system configuration for the primary simulation of total production of energy production Mwh per year to evaluate the profitability of the ۱۳۵۶۳ MWh photovoltaic unit and the yield factor of ۷۹.۲%

کلمات کلیدی:

Photovoltaic system, network independent, PV system software, solar detector

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