

## عنوان مقاله:

Peak reduction in the qeshm island with photovoltaic farms

## محل انتشار:

دومین همایش ملی پژوهش های کاربردی در برق، مکانیک و مکترونیک (سال: 1393)

تعداد صفحات اصل مقاله: 8

## نویسندگان:

Shahriar Bazyari - *Department of electrical engineering, Fasa Branch, Islamic Azad University, Fasa, Iran*

Mehdi Motevasel - *Department of electrical engineering, Collage of engineering, Shiraz branch, Islamic azad university, Shiraz, Iran*

Shahrokh Farhangi - *Department of electrical & computer engineering, Tehran university, Tehran, Iran*

## خلاصه مقاله:

Recently, renewable resources, are increasingly used for power generation in most countries. Qeshm Island, has significant solar radiation and its required power can be provided by solar power plants. In this paper a technical and economic study is performed and the possibility of providing some required power of Qeshm Island by photovoltaic farms. Due to the variation in the solar radiation, their power generation depends on the solar radiation. In this paper three types of the photovoltaic farms, including fixed panel farms, farms equipped with single and double axis tracker are investigated. The real economical and technical data is used in 2011. The investment, installation and operation costs of photovoltaic farms as well as the penalty of CO<sub>2</sub> producing thorough power plants with fossil fuels are considered. After economic evaluation, it is deduced that single axis photovoltaic power plant, is suitable for power providing of Qeshm Island.

## کلمات کلیدی:

Economic Analysis, Electrical Peak Reduction, Photovoltaic Farms

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/387226>

