

Estimation of Solar Radiation Received on a horizontal surface: a case study in Bouira

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Description

Energy has been recognized as one of the necessary inputs for social and economic development and a clean energy is a challenge in the future. Therefore, renewable energy has become one of the most popular sources of energy. The solar energy, is one of this renewable energy, has the most characteristics which is the durability. Due to its geographical location, Algeria has one of the world's most extensive gas reserves, and has also one of the highest solar reservoirs in the world. Information of local solar radiation is very important for many applications in solar energy systems (photovoltaic for example). For this purpose, this paper aims to estimate the solar radiation received on a horizontal surface in the site of Bouira (Algeria).