



Contribution ID: 18

Type: Poster

Feasibility of solar tracking systems for hybrid PV/T panels in hot and cold Regions in Cameroon

According to previous studies, PV solar tracking systems can capture 20% to 50% more solar radiation than fixed systems; and the advantage of the solar tracking system is that the yield of photovoltaic panels is increased by 30 to 40% compared to the fixed inclined one. A solar tracker is a device that keeps photovoltaic panels in a perpendicular form to the sun's rays. The objective of this work is to assess the performance of a PV solar tracking system in order to make a comparison with the fixed one, through the development of a mathematical model that will allow us to have more ideas on solar photovoltaic tracking systems. Thanks to the results obtained for the weather conditions in the locality of Garoua (North Cameroon) and DSHANG (West Cameroon) we can propose a method to follow the sun in clear conditions.

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Session Classification: Renewable energies and Energy efficiency

Track Classification: Renewable Energies and Energy Efficiency