

Every location on Earth receives an amount of sunlight throughout the year, but the amount of solar radiation that a spot receives varies from place to place on the Earth's surface. This amount is called "solar radiation", which is also known as "photoelectric radiation"; It is emitted by the sun in the form of light that is captured by solar energy technologies, and converted into useful forms of .energy

In this study, solar energy accounts were found for three regions around the world, which are "Nasiriyah, Greenwich, Kampala", and then compared the results and reached the best possible .result for benefiting from solar energy

The reason for choosing these places is that the city of "Nasiriya" is the place for this study, and "Greenwich" is located in the northern region of the globe, while "Kampala" is located on the .equator

The geographical location, the angles of inclination of the solar radiation and the angles of the inclination of the receiving solar collector to the sun were taken into account for three times during .a day in each month throughout the year, in addition to the ground reflectivity coefficient

The total collected solar energy was extracted from direct, dispersed and reflected energy through .their own laws

Some other factors were excluded from the calculations such as clouds, humidity, dust and smoke, and the results showed that it is wrong to take the angle of inclination of the solar collector as the same as the latitude angle, and using this method to find solar energy calculations may differ slightly .from the actual results for all cities