



# Ghana solar average daily pv irradiance

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The Flat Plate Collector (FPC) solar water heating system is an active commercial one that comprises an FPC collector, a pump, and storage tank as shown in Fig. 1. The whole installation has the necessary control strategy.

The annual useful energy is calculated based on various factors, including the total amount of solar radiation received, the efficiency of the solar collector, and the performance of the system throughout the year. This energy signifies the sum measure of heat energy that is efficiently consumed throughout a year, is attained from<sup>23</sup>.

The storage tank is equipped with an interior temperature exchanger designed to engross the valuable dynamism from the Heat Transfer Fluid (HTF). Additionally, it contains internal heaters that are activated to supplement energy whenever necessary. The energy balance of the system, considering these components, is encapsulated in the following equation<sup>25</sup>:

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