Abstract

To ensure alternative sources of energy that are clean, reliable, stable, and sustainable, solar energy is becoming a major need in today's era of expensive fuels, which are used to boil water for industrial and domestic purposes. An setup of Two moveable solar water heaters with FPC's (flat plate collector solar panels) of 100 liter and 200 liter were placed in the roof top open sky space made available. The data of 12 months have been collected and...
performance of analyzed in this paper. It is found that the incoming hot tap water is about 30°C higher than the room temperature during day time during winter months. This is about 25°C in afternoon hours.

References

- Yohanis, Y. G.; Popel, O.; Frid, S. E.; Norton, B. The annual number of days that solar heated water satisfies a specified demand temperature. Solar Energy 2006, 80, 1021-1030.

Index Terms

Computer Science

Power Systems

Keywords

Solar Water Heater  Thermosyphon Solar  Flat Plate Collector Type Panel (FPC).