Abstract

To ensure alternative sources of energy that are clean, reliable, stable, and sustainable, solar energy is emerging as a major need in today's era of expensive fuels which is used to boil water for industrial and domestic purposes. An setup of two moveable solar water heaters with FPC's (flat plate collector solar panel fitted) of 100 liter and 200 liter were placed in 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  Therosyphon Solar  Flat Plate Collector Type Panel (FPC).