



ChemTech

International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555

Vol.10 No.5, pp699-702,2017

Effective Study on Domestic Application of Hybrid Photovoltaic-Thermal (Pv/T) System

Veeramanikandan.M^{1*}, Sathish.D²,Tamilselvan.R³

^{1,2,3},Department of Mechanical Engineering,Sri Ramakrishna Institute of Technology, Coimbatore 641010, India

Abstract:This study presents an overview of the development and application aspects for the hybrid photovoltaic-thermal (PV/T) systems.Over the last 30 years, a significant amount of research and development work on the hybrid photovoltaic-thermal (PV/T) technology has been carried out.The hybrid PV/T systems are very promising devices and its technology is expected to become strongly competitive with the conventional power generation in the near future. In recent years, various methods of thermal management in hybrid photovoltaic-thermal (PV/T) systems have been observed by many researchers due to its importance in the system's overall efficiency improvement. Different types of hybrid photovoltaic-thermal (PV/T) systems and the theory behind its operation and performance were briefly presented.This study presents the trend of research and development of technological advancement in hybrid photovoltaic-thermal (PV/T) systems and its useful domestic applications like as water heating, air heating and HVAC system.

Keywords:Hybrid Photovoltaic-thermal (PV/T) system, Thermal management, Overall efficiency, Application.

Veeramanikandan.M *et al*/International Journal of ChemTech Research, 2017,10(5): 699-702.
