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Solar energy is a perpetual source of energy which means that it never runs out. Therefore, in the century when energy consumption is at its utmost but the sources are limited, the researches on maximum utilization of Solar energy are at its maximum. Keeping in mind the current need of energy utilization, this project was undertaken with the motive of using the wasted energy of a Solar Water Heater used in household purposes for room heating purposes.

Under this project, a Solar Flat Plate Collector was insulated and then double glazed to entrap as much heat as possible. The losses encountered in the Solar Flat Plate Collector was analyzed and studied through the resistive circuit of the system. The collector was then connected to a storage tank. The water in the storage tank was circulated back to the Flat Plate Collector in order to increase efficiency. The heated water was then circulated to the model house and the temperature rise in the model room was noted in different mass flow rate. Hence, the relation between mass flow rate and temperature rise in the room was also verified.