Implementation of green energy information management system by using of RFID

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ABSTRACT

The study on surveillance with radio frequency communications for solar systems and the system is named as RFSS (Radio Frequency Surveillance System) in this thesis. Recently, it is known that there are many types of renewable energy proposed, so far the most recognized popular and have the economical characteristic are including: solar energy、water energy、wind energy 、terrestrial heat energy and so on. Generally, the transformation procedure for any kinds of renewable energy to transfer it firstly as one type of electrical energy is necessary. This is convenience in utilization and storage reason. Under the consideration of energy transform, storage, and deliver is in the case of most efficiency and safety. It has to develop a control system in order to monitor and adjust the renewable energy system adaptive, and to monitor the battery condition of the condition for storing extra energy at all times. On the other hand, the contribution of such solar surveillance system is able to keep the operation of the renewable energy system in staying the best condition. The passive RFID (Radio Frequency Identification) system construction is adopted as to filter out the control signals and transmission signals .Thus,the identification of a secured person can be verified when who is goint to conirol or operate the system. Traditionally, the surveillance of such a control system is implemented by wired method which generates a lot of drawback, such as at construction way, cost effective, maintenance, space limit. All of these problems can be mitigated by RFSS implemented in this thesis.

Keywords : renewable energy、solar systems、surveillance system

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