

OPTIMIZED CONSUMER UTILIZATION USING PRE-PAID METERING SYSTEM

Mahalakshmi.V(1), Reshmi Rajeev(1), Mr. R.Sreekanth(2)

(1) Dept. Electrical and Electronics, St Joseph's College Of Engineering, Chennai-119(T.N.), India

(2)Assistant Professor, Dept. Electrical and Electronics, St Joseph's College Of Engineering, Chennai-119(T.N.), India

This paper presents a technique for optimized consumer utilization based on a prepaid metering system using Internet of Things (IoT) that allows a two-way interference between the consumer and the EB board. The recharging of the energy meter is done via radio frequency identification (RFID) and the data is uploaded to the cloud. The loads are divided as essential loads and non-essential loads based on consumer's usage of watts. The consumer can manage their consumption that can be viewed through a consumer account online. The EB board is provided with the monitoring of the system, while the non-essential load can be controlled by the consumer, hence optimizing the usage. In the prepaid system, the initial units are provided, upon reaching a set limit before the end an indication is sent after which the non-essential loads could be controlled in an eco-friendly mode for better consumption.

