Abstract

As the advancement of technology and dependencies over the electrical appliances increases, the usage and requirement of electricity is also increases rapidly. Eliot is a smart energy prepaid meter based on Internet of Things [1]. This smart meter [2] will be helpful in generating the real-time data of the electricity usage. Users will be able to see their daily usage from a web app with the help of their unique identification number and password provided to them at the time of installation of this device. The main aim of this paper is to make a novel system which will help in reducing the usage of electricity and bring transparency between the electricity providers and the customers. This meter needs to be recharged similar to a mobile phone, payment for recharge can be done on a web portal designed for it. User will then be able to view the usage of electricity in a statistical manner with the balance available in their device. User can also stop flow of electricity from remote location if the electricity is not in use.
5. ISO/IEC 20922:2016 Message Queuing Telemetry Transport v3.1.1
https://www.iso.org/standard/69466.html
8. Praveen Vadda, Srerama Murthy Seelam." Smart Metering for Smart Electricity Consumption". (May 2013)
11. Andrea Zanella, senior member, IEEE, Nicola Bui, Angelo Castellani, Lorenzo Vangelista, Senior member IEEE, and Michele Zorzi, Fellow IEEE" Internet of Things for Smart Cities" (February 2014)

Index Terms

Computer Science
Networks

Keywords

Smart Energy Meter, Internet of Things, Prepaid Electricity Meter, NodeMCU, MQTT