IOT BASED SMART ENERGY METER

A project report submitted in partial fulfillment of the requirements
For the award of the degree of

BACHELOR OF TECHNOLOGY
IN
ELECTRICAL & ELECTRONICS ENGINEERING

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CERTIFICATE

This is certify that the project report entitled **"IOT BASED SMART ENERGY METER"** is a bonafide work submitted by **CH. LALITHA DEVI , CH. AVINASH, D. SIVA KUMAR, R. ANIL KUMAR, U. SOMESWARARAO** in partial fulfillment of the requirements for the award of degree of

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ABSTRACT

With passage of time , technological involvement is more with daily life of humans. There is lots of progress of many fields. One of them is Science and Technology field but many peoples don't take full advantages of it. There is a scope for improvement in electricity billing system. Many times errors like extra bill amount, or notification from electric board even though the bills are paid are common errors. To overcome this drawback we have come up with an idea which will eliminate the third party between the consumer and service provider, even the errors will be overcome. In this paper the idea of smart energy meter using IoT and Arduino have been introduced. In this method we are using Arduino because it is energy efficient i.e. it consume less power, it is fastest and has two UARTS. In this paper, energy meters which is already installed at our houses are not replaced, but a small modification on the already installed meters can change the existing meters into smart meters. One can easily access the meter working through web page that we designed. Current reading with cost can be seen on web page. Automatic ON & OFF of meter is possible. Threshold value setting and sending of notification is the additional task that we are performing