## ELECTRICITY ENERGY METER

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Abstract

We all know about **Electricity energy meters** which are installed in everyone’s house or offices to measure the electricity consumption. At last of every month, many of us get worried about the high electricity bill and we have to look at the energy meter once in a while. But what if we can monitor our electricity uses from anywhere in the world and get an SMS/E-mail when your energy consumption reaches to a threshold value. Here we are building an [IoT based Project](https://circuitdigest.com/internet-of-things-iot-projects) of Energy Meter.In this project we make a **Smart Electricity Energy meter using Arduino and ESP8266 Wi-Fi module** which can not only sends you a SMS/Email of your electricity Bill but also you can monitor the energy uses anytime and from anywhere in the world. Here we have used a **Current Sensor ACS712** to measure the energy consumption.This idea is being implemented to reduce the human dependency to collect the monthly reading and minimize the technical problems regarding billing process.The advantage of this system is that a user can understand the power consumed by the electrical appliances on the daily basis and can take further steps to control them and thus help in energy conservation.

*Keywords: Electricity, Energy meter, Arduino, Current Sensor, Monthly electricity bill, Power consumption, Iot, Wi-Fi Module.*