

IOT Based Smart Energy Grid.

About This Project:

This project aims to solve this problem using IOT as the means of communication and also tackling various other issues which a smart system can deal with to avoid unnecessary losses to the Energy producers. Electricity as an important invention without which life on Earth is impossible. So obviously there is a need for measuring the consumed electricity. Accomplished by the wattmeter, but a person visits each customer's house for measuring the power consumption and for calculating the bill amount of customers. So it requires much manual work and consumes time. This IoT Based Smart Grid is able to send the overload notification in user's mobile phone by message .If the users used overload then the system automatically restart & the users bill, uses power all-time sent the users mobile phone. It can also be seen on the LCD display.

Block Diagram:

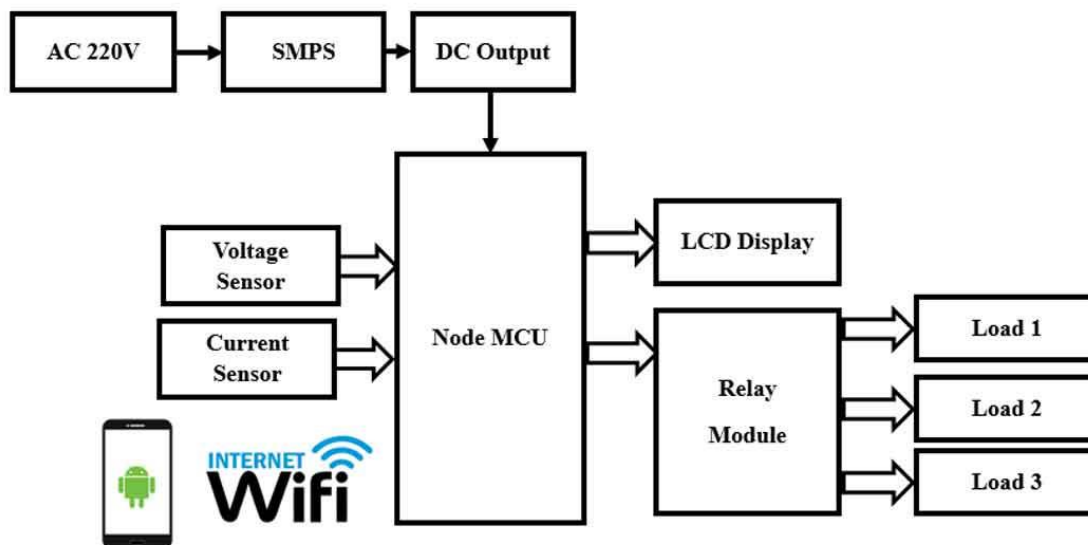


Figure: Block Diagram of IOT Based Smart Energy Grid.

Required Instruments:

- Node-Mcu.
- SMPS.
- Voltage Sensor.
- Current Sensor.
- Relay
- Transistor
- LCD Display.
- Load.

Advantages:

There are many advantages of our project because of its accuracy. Some of the advantages are pointed out below:

- By using this system, it is possible to reduce human physical work.
- It's an wireless notification system which is suitable in modern technology.
- This Smart Grid is an automatic protection system from unwanted situations.
- It's easy to install this system.
- Very cost effective.

Applications:

The application areas for this project in this modern and practical world are huge and some of these are given below:

- It can be used in anywhere etc.
- It can be use in Power Grid.
- It Can be use Sub Station .
- It Can be Use in Home. & Industry.

N.B: *Any modification of this project can be done as per your requirement. We will make the project according to your needs. Contact us with your any innovative engineering projects idea. We will help you to implement your project.*

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