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Project Title : Smart power meter by IoT system

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**Abstract**

The objective of this project is make smart power meter by IoT system that can send electrical usage on wireless system and can show electrical usage real-time. The experimental equipment consists of 6 Node MCU ESP32, Raspberry Pi model 3b+ and power meter.

smart power meter by IoT system uses wireless data transmission principles with MQTT and Mesh Network. The electrical usage that measured by power meter will send to server gateway. Which users can access through the server dashboard anywhere that can connect to the system network.

The result of experiment smart power meter by IoT system can monitor electrical usage via the server dashboard. If unable connect to server it will not be able to monitor data.

(Total 91 pages)

Keywords : Electrical usage, Mesh Network, MQTT, Wireless communicate

Advisor