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(57) Abstract :
A representative from the electricity board who is responsible for reading the energy meter and delivering the bills to the owner of that residence each month will find this to be helpful. It's just a meter reading, nothing more. That passage states that we must pay our bills. The biggest flaw in this approach is that a person must visit each residence individually to read the meter and hand over the invoices. Common issues include notifications from the electricity board even when the bills have been paid or excessive bill amounts. We have developed a solution to this problem that will do away with the middleman standing between the customer and the service provider, thus eliminating any room for error. This project introduces the concept of a smart energy meter utilizing the internet of things and an Arduino controller. Because Arduino is fast, has two UARTs, and is energy efficient (i.e. uses less power), it is used in this method. Energy meters that are now installed in our homes are not being replaced as part of this project; but, a minor update to the existing meters can transform them into smart meters. The GSM module's use offers the capability of SMS notification. With the help of the website we created, anyone can readily access how the meter is working. On the website, you may check the current reading and the price. The meter can be turned on and off automatically. The additional task we are carrying out is establishing the threshold value and sending the notice.

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