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(57) Abstract :

Electricity is the driving force behind today's world. In addition, as more and more things throughout the world are digitized, electricity will play an increasingly significant role. It is important to measure the power utilized by users, who will then collect readings and prepare bills. Although the primary function of the energy board is to generate and distribute electricity, this task is not the only one it is responsible for. At the moment, both taking a reading and producing invoices are done manually. Theft of electrical power is among India's most pressing problems. When a customer fails to pay their bills by the due date, a technician from the energy board is required to manually cut off the customer's power supply. In this particular situation, corruption may sometimes be caused by the user or that worker, which ultimately leads to the destruction of the electrical board. We came up with an Internet of Things-enabled wireless solution for smart power meters and billing systems so that we could circumvent all of these problems (Internet of Things). In addition, we used relays to cut off a user's power supply in the event that they had not paid their bill. This was accomplished via the utilization of the IoT concept. The measurement will be taken automatically, and consumers will get a message through the GSM module notifying them when the measurement is complete.

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