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(57) Abstract :

This design deals with the design of microcontroller based power theft identification and mitigation. The main aim of this project is to detect and eliminate the power theft in distribution lines using Internet Of Things(IOT). There is a problem with rural areas where the wired system is difficult to transfer the information on electricity theft to the distributor. I we were unaware of many problems which come across. Aggregate Technical and Commercial losses(AT&C) is nothing but a sum of technical, commercial losses and shortage due to non-realisation of total billed amount. So, the most of the part in commercial loss is due to power theft. Power theft is nothing but a hooking of power in the distribution lines. So, in this system whenever a person tries to do some illegal action on distribution power lines it can be immediately detected by the distributor. This is helping the distributor to keep track on supplied resource. This system will effectively help in reducing charges of electricity units. This project also includes improving the economical status of over country. The main objectives of the system is to design the system to avoid the problems for the user from theft bill irrespective of the used of electricity due to theft using IOT technology

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