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Abstract:
As population rises the demand of electricity also increases and energy theft becomes a major issue in countries like India. A large loss is faced by the utility of electricity every year due to power theft. The automatic meter reading (AMR) system already exists but with potentially reduced reliability and risk of loss of privacy. To collect consumption, diagnostic and status data by visiting consumers' places every time is tedious work. In this paper, an attempt is made based on a microcontroller ESP32 for monitoring, detecting and controlling energy theft remotely. The Internet is used for communication to the central utility system. The consumer will be motivated to use electrical appliances effectively by sharing the real time usage with it.

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