

Smart Power Theft Monitoring With Zigbee Technology

Sheela.M¹, Sri Ramachandra Prabu², O.V.Gnana Swathika^{3,*}

¹*School of Electrical Engineering, Vellore Institute of Technology,
Chennai,India, sheela.m2024@vitstudent.ac.in,*

²*Department of Electrical Engineering, Visvesvaraya National Institute of Technology,Nagpur,India,
sriprabu19@gmail.com*

^{3,*}*Centre for Smart Grid Technologies, Vellore Institute of Technology,
Chennai,India, gnanaswathika.ov@vit.ac.in*

The objective of this paper is to eradicate the power theft without human interaction. Power theft is a major issue faced worldwide. Here we are introducing a new concept called endangering, to minimize the power theft in electrical power distribution. In this concept, if any malfunctioning occurs, then the power supply of all authenticated users are shut down by use of relays and in the meantime high voltage is passed over through the transmission line of that particular area, which will damage the equipment's of the unauthorized power users. For a given region, the power theft is detected by continuously computing the difference between transformer's output power and the power consumed by the authorised users. The receiver module is placed in the main power station to continuously monitor all authorized users power consumption pattern. In addition, it provides instant billing along with complain booking. The proposed power theft detection scheme ensures effective use of power by authorized personnel

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