Kuvempu University

PROJECT REPORT ON

"Embedded Power Theft detection And Control"

(SELECTED UNDER KSCST)

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IN

ELECTRONICS AND INSTRUMENTATION

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ABSTRACT

The theft of electricity is a challenge that needs to be eradicated if the electricity distribution industry is to remain sustainable and viable. The authorities have to investigate the discrepancies between the power supplied and power utilized in order to find the theft , but manually the chances of detecting the theft condition is very less.

To reduce the heavy loss due to theft to the power supplying company, the instrument which detects the theft condition is designed by using PIC 16f877 microcontroller for single phase. Here two current transformers are used to find the differences in the voltages. If the difference in voltage occurs then , there is a power theft. It can be designed in such a way it requires less manual operation. Hence our project approaches in finding out the power theft and power loss to the power supply company.

Theft detector is going to deliver the power to the load only during theft less condition and cuts off the power supply when theft occurs. And this information can be sent to the power supplying company by using RF transmitter and receiver.