ABSTRACT

KWh meter is an instrument for measuring electrical energy (kilowatt hour). KWh meter circulating currently haven't remote features remotely, so the process for controlling, reading kWh power value, and then terminate and turn kWh meters are made directly to the customer. Obviously this will take a long time and the service to be less than satisfactory.

In this final study will be made of a IP-based system designed for monitoring and control of digital kwh meter. Digital KWh meter is equipped with a microcontroller device and device network modules. This device will be a system of mutually integrated, so they can communicate with servers on the Internet.

The results of this final project are produce monitoring and control system designed of digital kwh meter based on IP. System will integrated with the server, can be controlled from the application server, capable of transmitting data values kWh meter is read to the server, and have a service to turn off or on electrical lines to customers.

Keywords : kwh meters,IP,ethernet,server,internet.