

ABSTRACT

This Final Project explains about monitoring electric resource management system in Vocational High School 2 Kendal. This Arrangement system uses AT89S52 microcontroller to control continues electric power automatically. Operation and monitoring parameter will be kept at one particular database at PC server and in microcontroller.

For the process of operation and monitoring can be used at the far place, by using Short Messages Service (SMS) Gateway. Controlling from long distance is needed to optimal work of electric resource management operator. With controlling and monitoring from long distance, the generator processes do not needed to control continually and directly.

The Result of performance electric resource management system, they are its can control continues electric power automatically and sending condition of generator with SMS gateway with minimum delay. And Process sending conditions do not disturb electric management system. Other performance of this system which is can monitor functions and process of generator, namely monitor volume oil and fuel, and time where generator is used.

Keyword: SMKN 2 Kendal, electric resources, power sources, automatic switch, teleoperation, and SMS Gateway.