

ABSTRACT

The control system consists of a set of devices and electronic equipments which is able to control input and output as desired. Electric Generator is a tool that can convert the mechanical energy into electrical energy with diesel fuel. Generally, the monitoring of the electric generator is conducted manually, so it is not very effective because the operator had to look at the parameters very closely and the observation is not regular. The above issue becomes reference in making the control system and monitoring the electric generator through the internet.

The system controls and monitors the electric generator by reading some parameters, so it needs some control modules such as microcontrollers. The data obtained from several sensors is delivered through the ESP8266 to the internet, and then it will be displayed on the computer. The system works by detecting the level of diesel fuel and the status of the electric generator (on or off). When the electric generator is turned on or off, the system will show on the computer that the electric generator was turned on or off. It also displays the level of the diesel fuel.

The result obtained from the design is to get a system that provides continuous data to the operation of the electric generator and to provide ease of delivery and displaying of data of all the activities of the system as a whole through the internet.

Keywords : Control System, Electric Generator, *Mikrokontroler*, *ESP8266*, *Relay*