

ABSTRACT

Electrical substation is one important part in distributing electricity to homes, but the electrical substation is not always supervised directly by humans. There have been some accidents that occur on the electrical substation such as fire. It also led to huge losses. And it needs a monitoring system in order to avoid further such adverse things.

Surveillance system at the end of this assignment is an application monitoring system which is devoted to the electrical substation and is intended for PT. As the state electricity company PLN. In a surveillance system needed an application that could facilitate users. There is a mapping that shows some of the existing electrical substation locations. In the normal electrical substation and the problems it will be marked with colored dots different. The data obtained came from the sensors are processed in a microprocessor and sent to the web-based interface. There are also notifications received by related parties in the form of text and alarm on the interface. Applications shows all measurement results by the sensor in the form of graphs that can be viewed instantly and each result is stored in a database.

Applications built to perform mapping of electrical substations and receiving data from the hardware controls are in the electrical substation through a network sms. This app has some other functional as the data shows electrical substations and data graphs of some electrical substation sensor, and automatically show the problematic statements electrical substation on the data mapping and electrical substations. Electrical substation data report will be sent to the troubled field employees with sms gateway. When the electrical substation repairs have been done, then there is a report back that talah substations repaired and report any problems to the electricity substation will be back to normal.

KeyWord : *Web Applications, MySQL, SMS Gateway*