

## ABSTRACT

The failed of just one power plant to work properly has become a big problem to PLN because PLN should be able to decide particular area which must be turned off, consider the energy that already had is on the wane related to those damages. From the case above, of course it is needed a handling which is quickly and accurate to decide particular area which must be turned off and get innings to enjoy electric current until its house so the customers do not too disappointed to the given service.

Development a system into software is a potential choice because the system can work without limited by time and room and also it can take decision at the time based on data.

The criterion for doing turn off is pursuant to customer's level where customer's level with household type have especial priority to be turned off first followed by industrial type, business and last by executive type. The simulation is held at the time of energy decrease equal to 20%, 40%, 60%, and 80% from energy that already had. Result from simulation is used to determine which area should be turned off pursuant to its innings. Fairness customers are also reckoned so those in each turn off is done, the first turn off innings will never given again to customers which is previously had turn off innings before. The comparison between manual way or network that is exist in PLN even also done to see the accuracy how far energy distribution can be done by system.

Keyword: Power Plant, Watchman Station Electrics, Turn off Innings.