

ABSTRACT

Electrical energy is very useful and a basic human needs. The use of electrical energy regardless of its use will lead to waste resulting in reduced energy supply from the producer side because the producer of electrical energy itself is mostly a non-renewable energy source. In addition, the user side will also cause electricity costs soared because of wasteful electricity usage. On this occasion the author will explain the implementation of the final task tool system related to power management to save electricity energy, especially the use of electricity in household activities.

The workings of tool is manage power management by limiting the load in terms of time by the user. In the implementation of the system will be installed electrical switch (relay) that allows users to perform on / off automatically. It also uses ACS712 current sensor and ZMPT101B voltage sensor. The communication protocol on this tool uses Modbus RTU.

Keywords : *SCADA, Building Automation. ACS712, ZMPT101B, Modbus RTU, Master, Slave.*