

ABSTRACT

Electrical energy is the main energy that needed to make any electronic devices work, electrical energy can be provide from many source, like water, solar heat, nuclear, charcoal, wind, geothermal etc. The energy that produce by these resources is from couple of Joules to millions of Joules. As of today in Indonesia there is very small amount of people that uses alternative energy to run their electronic devices and more fewer people whose using more than one alternative energy as their source of electrical energy, this makes Indonesian people very dependent on PLN as company that provide source of electrical energy.

In this final project there will be a controller for electrical generator that using renewable resources for two resources that can be used to produce electrical energy is water and also solar heat. This controller design could monitor power that produce by the two resources and check the battery power so that the system voltage could be determined.

From this final project the amount of the electrical energy that have been obtained is 40.76 Watt that is enough to help powering the incinerator area, so that area will be helped from the source other than from PLN, so it will reduced the cost of the administrator for that incinerator.

Keyword : Electric Generator, Controller for Renewable Resources, Renewable Resources.