ABSTRACT

Electrical energy is the energy that is needed. Almost all of the necessities of life

require electrical energy. At this time a general way that is widely used for plants using

fossil fuels such as coal. However, most of the power plants are less efficient,

environmentally unfriendly, and the cost is relatively expensive pembuatannyapun. For

example, coal-fired power plants that are currently used to produce 60% of world

electricity. Carbon emissions from power plants could lead to acid rain and air pollution.

Currently the resulting pollution has been linked to global warming due to the chemical

composition of coal.

In this thesis designed a power-efficient and environmentally friendly power

generation system is to harness the river water. The plant produces a maximum voltage

can adjust the wheel position because of river water ups and downs. Windmill generator

drive the DC motor to be used as a voltage parameters and determine the height position

waterwheel.

In this thesis successfully designed power plants that utilize aliaran river. This

power plant can work if there is a stream and has no effect by tidal waters because this

tool is able to search for the maximum voltage automatically. It is expected that in the

making of this thesis can be created by a power source that is effective and does not

require dams to create hydroelectric power plants.

Key Word: Generator DC

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