ABSTRACT

Geothermal energy is a mainstay for the Province of West Java. It has 21.7% in some region as spreadly. One of them is located in PLTP Cibuni Ciwidey, Bandung regency. The potential of Geothermal energy are unexpected in Cibuni amounted 140 MWe, which the utilization can be maximized for to fulfill electrical energy consumption in West Java, especially Ciwidey, Bandung. As currently the construction of a geothermal power plant which is being developed to solve the energy needs for new renewable energy (EBT) and to reduce demand of nonrenewable energy. From the total of Geothermal energy just ± 4% had been developed, which used for geothermal power plants. Cibuni geothermal power plant 1x10 MW is estimated to generate electrical energy amount 70 GWh/year and used to fulfill the base load by considering the selling price, and buying power of Ciwidey, Bandung, West Java and give influence to the regional electricity basic tariff. The PLTP of Cibuni also environmentally friendly because produces the carbon credits (CDM) is very low.

Keywords: Electrical Energy, Geothermal, PLTP Cibuni, Regional Electricity Basic Tariff.
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