

# **Development of guidance for the purpose of increasing participation connecting of renewable energy generation on power systems**

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## **Abstract**

Supply of electricity with centralized power generation and long distance transmission and distribution has a variety of obstacles. Therefore the generation of renewable energy that spread out but can be connected to the electrical grid has an option at this time and in the future.

However, connecting the renewable energy power plant without wearing adequate requirements will actually result in a negative effect on the network. For that there are need a guidance that can be used to as a handle for the parties that would connect the renewable energy plant on the electric power grid. With such guidances are expected by the developers of renewable energy power plants to maximize its generating capacity to contribute to the electricity supply.

Meanwhile, the conditions of the network that will be connecting by scattered power plants have different constructions and circuits from one region to the other especially in Java Island. Therefore, the guidance should be developed to accommodate the condition of the local distribution network. Thus the necessary guidance regarding general terms and specifically in accordance to the nature of the local network.

This paper presented the background of the problem, objectives and outline of what is produced on the guidance for connecting renewable energy plants with networks owned electricity distribution companies.