ANALYSIS OF WIND POWER PLANT FOR LIGHTING OF LOADING AND UNLOADING IN THE GRESIK HARBOR

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Abstract

Electrical energy is still largely produced from the earth's mineral energy conversion and the National Energy Policy (KEN) PP No.5 of 2006 on how to create a national energy supply security in a sustainable and utilization an efficient, as well as the realization of the energy mix (energy mix) who optimal in 2025 requires the experts to think about renewable energy sources (renewable energy). Wind turbines are one source of energy that can be utilized to meet energy needs, so the research is planned using wind turbines to meet the needs of lighting in the harbor gresik, which can be calculated that the power generated by a wind turbine at a certain wind speed conditions and the calculation of complementary components. So it is known that to meet of lighting the required five wind tubine which each wind turbine can produce 3995 watts and fifty-two batteries to store energy generated from wind turbines.

Keyword: energy mix, lighting, renewable energy, wind turbine.
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