DESIGN AND CONSTRUCTION OF WIND OWNERSHIP ON WIND POWER POWER GENERATING SYSTEM ON FISHING SHIP 1 GT

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ABSTRACT

Electrical energy is one of the most important needs for humans, because all daily activities cannot be separated from electrical energy. The aim of the research is to design a windmill that is able to capture wind energy at low wind speeds and at high speeds. This tool works by utilizing wind energy to be converted to produce environmentally friendly electrical energy where the energy generated will pass through the battery charging control so that there is no overcharging, then DC power will be converted to AC using an inverter. starting with the help of hands (manual). At high wind speeds obtained 4.8 m/s, voltage obtained 13.8 volts, current 0.8 amperes and rotation of 325 RPM while at low wind speeds obtained 0.7 m/s with a voltage of 3.1 volts, current 0 ,2 amperes with a speed of 74.2 RPM.

Keywords: Electrical energy, windmills, wind.