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Performance of Generator Translation and Rotation Motion on Vertical Direction for Sea Wave Power Plant

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Abstract. The generator has been used in the sea wave power plant to converting mechanical energy into electrical energy. Generator for sea wave power plant depends on the motion as translation and rotation. For position of seat three direction is horizontal and vertical motion. Generator translation and rotation consists of several components such as rotor, stator, frame holder of generator, shaft, piston and etc. In previous study, the generator translation and rotation motion in horizontal direction was used for sea wave power plant [1]. The results show that the performance of generator is depend on the stiffness of frame holder of generator, number of coil (pole) and magnet, material of pole and magnet and etc. The design frame holder of generator translation and rotation motion in horizontal direction is less rigid (stiff) and prediction, that affecting the performance of the generator. To overcome problem in the frame holder of generator translation and rotation in horizontal direction, frame holder of generator vertical direction mechanism are used in this research and performance of generator is output like output voltage and power of generator. Input power of generator by using manual power (rotated by hand) and rotation speed of shaft force of generator is 100 rpm to 200 rpm and output load by lamp is 6 ohm, 12 V. Generator holder design made with 80° inclination conditions in order to straight or perpendicular to the motion generator components. By applied response of experimental of generator translation and rotation motion obtained the results of experimental less voltage generator without the load for generator translation motion is 42.7 volt at 200 rpm and for the generator rotation motion of 77.4 volts. By applied load, the maximum value of output voltage generator becomes decrease is 31.24 volt for generator translation and generator rotation is 36.82 volt.

Keyword: Frame Holder of Generator, Maximum Stress, Displacement, PLTGL

1. Introduction
Electrical energy has been used in many activity and field such as house, industry, hospital, fishing

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