

**DESIGN OF 24 VOLT DC GENERATOR TURBINE USING PORTABLE  
COMPRESSOR**

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**ABSTRACT**

*The high demand for energy demands to create a variety of alternative energy to meet these needs. Utilization of renewable natural resources must be and continues to be developed so that a crisis and energy scarcity do not occur. Especially for the needs of the community related to electrical energy in the district island, Bengkalis district. On the island of Bengkalis related to electrical energy. On the island of Bengkalis, electricity is obtained from a diesel power plant (PLTD). This study aims to produce a DC generator voltage by rotating the rotor on the coil. Thus, the generator outputs DC voltage to turn on a variable light load. This generator is driven by a turbine. The results of the research carried out, obtained a 24 Volt DC generator voltage, the maximum speed obtained was 1202 RPM.*

**Keywords:** *Generator, Compressor Wind Turbine, DC 24 Volt Voltage.*