

ABSTRACT

The increase in atmospheric pollution, depletion of fossil fuel and global warming of earth atmosphere makes the innovators to find alternate resource for conventional energy sources. Many renewable resources such as solar, wind, biomass, and fuel cell are available to produce energy from natural resources. Out of these, wind turbines are designed to generate electrical energy. A wind turbine is an electrical device that converts the energy from the wind into electricity. These turbines are available in different types, sizes, and shapes. So, the types of wind turbines are horizontal-axis wind turbine & vertical axis wind turbine. This work discussed about an overview of one of the types of wind turbine namely vertical axis wind turbine or VAWT

1.2.2 SHAFT

1.2.3 BEARINGS

1.2.4 FAN

1.2.5 PULLEY

1.2.6 DC MOTOR

WORKING PRINCIPLE

2.1 ADVANTAGES

WORKING CALCULATION