

## **POWER MONITORING SYSTEM FOR WIND TURBINE IN DUCTING SYSTEM USING ARDUINO AND LABVIEW APPLICATION**

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### **ABSTRACT**

Renewable energy is a process of conversion natural phenomenon into electrical energy. There are many type of renewable energy and Malaysia recognizes 4 type of renewable energy under Sustainable Energy Development Authority. Due to weak air pressure and low power produce using wind turbine make this kind of technology was not recognize to implement in this country. However the continuous research is still explored in order to improve renewable energy business. In this study, wind turbine had been studied by implement in the ducting system. In order to analyze the power production and quality of the system, power monitoring system was develop to monitor the performance of the system through three parameter setting which are temperature, air velocity and current. This is important to avoid failure and study the trend of electricity produce by wind turbine.

**Keywords:** power monitoring system; wind turbine; temperature; air velocity and current.