

Wind measurement system in wind power generation





Overview

The article provides an overview of wind speed measurement in wind turbines, focusing on different types of anemometers and their working principles. It also explains how wind data is collected, transmitted, and analyzed using systems like SCADA to monitor turbine performance and plan maintenance.

Data is constantly acquired about the winds, and the information is gathered and transmitted through a data acquisition system connected to.

Figure 3 shows a typical arrangement. The signals from the anemometer are sent to the controller, where they are used to set blade pitch to the.

The supervisory control and data acquisition (SCADA) system has been used in industry for many years to monitor important production information. The system can be used to start, stop, or reset wind turbine generators remotely, either individually or in.

Typically, it is mounted on the same shaft as the anemometer, as shown in Figure 4. In this case, the shaft is connected to the wiper of a 20-k Ω .



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1 Introduction SCADA is an abbreviation that refers to "Supervisory Control and Data Acquisition." It is an essential tool to control and monitor various measurements of the wind turbine ...

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