

Wind turbine environmental protection system





Overview

What is a protection scheme in a wind electric plant?

Protection schemes within these types of equipment are designed by their manufacturers and are integral to the equipment. Wind Electric Plants are composed of many wind turbine generators (WTGs) which are connected to a collector substation through a collector system.

What is a wind electric plant?

Wind Electric Plants are composed of many wind turbine generators (WTGs) which are connected to a collector substation through a collector system. The collector system is connected to the main substation or Point of Interconnection (POI) where the voltage is stepped up to the transmission voltage level.

What is a wind turbine protection scheme?

The wind turbine protection scheme may include voltage and frequency relaying to protect the generator. For example, some wind turbines may trip for frequencies at or below 95 percent of nominal, or above 103 percent of nominal, with an appropriate time delay.

Do wind turbine generators and static VAR sources need to be protected?

Although the report addresses coordination with wind turbine generator protective devices and static VAR sources, protection of the wind turbine generators and static VAR sources themselves is not included. Large WEPs are becoming more prevalent as generation sources on the power system.



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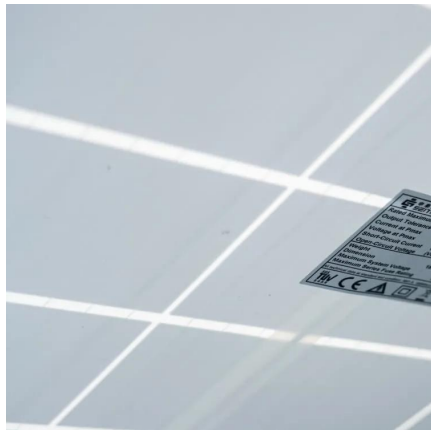
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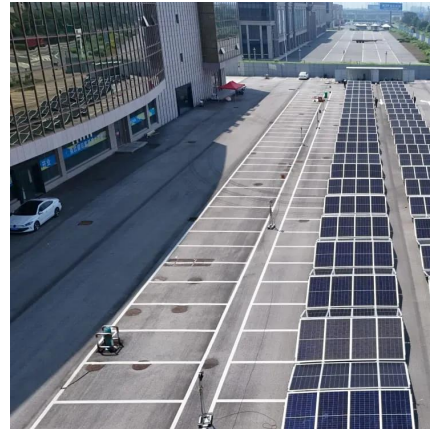
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