

Solar Energy South Africa

Phase II concrete generator wind shield



Overview

What is a “generic” model for a wind turbine generator?

The “generic” models are for bulk system studies performed by TSOs, TOs, reliability entities, etc. ↑ WECC REMTF, “Specification of the Second Generation Generic Models for Wind Turbine Generators”, Prepared under Subcontract No. NFT-1-11342-01 with NREL (last revised 11/11/13). [Online].

How do I choose a 2nd generation wind power plant?

In all cases the best approach is to consult the equipment vendor to come up with appropriate parameters for the 2nd generation models to represent the actual wind power plants (even in the case of GE units).

What is the main behavior of the windshield in Phase II?

The main behavior of the windshield in Phase II includes a large deformation of PVB, which is accompanied by the propagation of cracks on glass. The simulation curves of the headform at five different impact points in Phase II correspond well with the test curves.

How do turbine foundations work?

The design of the turbine foundations take into account the normal operating and extreme load conditions imposed by the turbine. The standard method of providing support to the turbine is by way of a concrete gravity base, typically of a circular shape to account of the variable directional nature of the design loadings.

How many types of wind turbine generator vendors are there?

At this point, with the gracious input of the various equipment vendors for type 4 wind turbine generators, a proposed model is on the table that appears to cater to at least four major type 4 vendors.

What are the structural components of a wind farm?

A primary structural component of any wind farm is the foundation required to support the turbine structure. Traditional turbine foundations are normally massive gravity structures, circular in shape designed based on simplified methods, often based on the recommendations by the turbine suppliers.

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Base Foundation of Generator: SECTION I

The document provides design specifications for the reinforced concrete foundation of a generator. It includes details of the slab thickness, reinforcement materials, concrete strength properties, and reinforcement bar sizes, spacing, ...



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