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Title: Cooling wind direction of the generator body

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Based on a 3.3 MW, 12 rpm permanent magnet direct drive wind generator, the cooling structure design and heat transfer process analysis are studied in this paper.

Wind Direction: Take into account the prevailing wind direction in your area. Position the generator so that the exhaust is carried away from buildings and outdoor living areas, ensuring that ...

Where strong prevailing winds are anticipated, face the engine end away from the wind. Plan the installation carefully to prevent the cooling air vents on the generator from becoming clogged by ...

The cooling system requires airflow supplied by a fan, which is either mechanically driven from the front of the generator's ICE or is electrically driven.

Electrically, ensuring efficient cooling of the field windings is crucial; GE achieves this through radial-flow or gap-pickup diagonal-flow cooling for heat removal.

When discharging air vertically, because the generator is surrounded on all sides, can result in higher than ambient air temperatures being pushed into inlet vents.

To do so, VENSYS relies on a simple yet efficient air cooling method. The generators of the 1.5 MW platform are cooled using a passive, maintenance-free air circulation system without any moving ...

This paper aims to overview the cooling techniques in direct-drive generators for wind power application, based on generator size, reliability and maintenance requirements.

Schematic diagram of the generator cooling system and end-winding region.

Check the wind direction before setting up your generator; place it so exhaust points away from your home's

Cooling wind direction of the generator body

openings. Position the generator upwind of doors, windows, and vents, ...

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