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

To prevent damage to the generator, the heat must be dissipated. 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, ...

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In smaller or older systems, air cooling is often used, in which the heated air is dissipated by fans. In larger or more powerful wind turbines, on the other hand, a closed water cooling system or a ...

Effective cooling is crucial to prevent overheating, reduce energy losses, and maintain the reliability of the turbine"s internal mechanisms. Wind turbine cooling is an essential component in the operation ...

One critical aspect that directly impacts the efficiency and longevity of wind turbines is generator cooling. In this article, we will explore the importance of generator cooling in wind energy, ...

In order to ensure the secure and stable operation of wind turbine, effective cooling systems has to be implemented to these components. Since the early wind turbines had lower power capacity and ...

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