

# The water temperature of the generator is greater than the wind temperature

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An overview is given on the calculations necessary to achieve this at the design stage as well as to ensure that the temperature fluctuations of the cooling fluids remain within the required...

A feasible design of a high-temperature superconducting wind turbine generator (HTSWTG) is based on the synchronous generator with a copper stator and a superconducting rotor.

This study develops empirical estimates for the impact of air temperature and water temperature on the efficiency of coal- and natural gas-fired power plants with once-through and ...

Numerical simulations on a test system are conducted to examine the influence of water flow rate and temperature on the reliability indices of the electric network. The results demonstrate ...

I understand the concept of temperature rise in windings, but I'm unsure about the temperature rise in a generator's cooling system. There are two key temperatures involved: the ...

It is generated due to the density difference between two points, typically caused by temperature variations. Wind turbines are used to capture this kinetic energy and convert it into...

ly temperature records exceeding many set during the twentieth century. Currently it's being predicted the frequency of record breaking summertime temperatures are set to continue for several decades. ...

This paper presents the mathematical modeling of the thermal state of a 1000 W wind turbine generator (WTG) integrated into a vertical-axis wind turbine (VAWT) system, taking into ...

A significant finding from this study is that the thermal effects on large-scale direct-drive generator structures may be vastly underestimated and have a much greater influence on structural ...

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Participants explore theoretical and practical aspects of wind energy generation, including concepts of thermodynamics and fluid dynamics. Some participants propose that the kinetic ...

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