

Using renewable energy for heating has attracted more attentions in recent years. In this study, a novel wind-to-heat system that uses the wind turbine to drive the compressor directly, is ...

PMECH is promising as it transfers wind energy into heat directly. The PMECH system used in this study can be utilized as a renewable heat supply unit for fish farms, farming facilities, ...

To investigate the load characteristics of the combined power generation unit, this study establishes a model of the Wind-to-Heat Combined Power Generation Unit based on the OpenFAST and ...

Results showed that the concept, tested at a data center in Colombia, can produce about 468 MWh per year from a single location. It's critical to first determine which airflows are appropriate...

Windthermal turbines convert wind directly into thermal energy. Albeit it is an uncharted field of research, the overall system efficiency and costs of fully developed windthermal turbines are ...

This paper proposes a new heating system with wind turbine heating system as the main unit, solar heating system as a supplement, which combines with latent thermal energy storage device.

Windthermal energy or windheat is the direct conversion of wind energy to heat. In contrast to the indirect generation of heat from electrical wind peak load (wind to power to heat), no electricity is ...

In 2022, wind turbines were the source of about 10.3% of total U.S. utility-scale electricity generation. Utility scale includes facilities with at least one megawatt (1,000 kilowatts) of electricity ...

Results showed that the concept, tested at a data center in ...

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Using wind energy to directly provide heat could be key in this area, using a variety of interesting methods that could have some unique niche applications. If one headline has become...

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