Title: Wind shock bar power generation
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In this study, we designed a new supersonic shock wave generator that can be reused without disassembling and assembling bolts and developed a shock wave monitoring system.

Wind supplies 57% of Denmark"s electricity generation and over 20% in ten other countries. 7 Global wind additions reached a record 117 GW in 2023. 7 In 2024, onshore installations surpassed 100 GW ...

Geophysical fluid flows (wind/river/ocean) are readily available potential sources of clean, sustainable and renewable energy, worthwhile to meet up to large extent the world energy demand ...

This paper presents design and finite element analysis of an electromagnetic energy regenerative shock absorber which can efficiently recover the vibration energy wasted in vehicle suspension system.

This Review discusses the current capabilities and challenges facing different power electronic technologies in wind generation systems from single turbines to the system level.

Wind power is the nation"s largest source of renewable energy, with more than 150 gigawatts of wind energy installed across 42 U.S. States and Puerto Rico. These projects generate ...

This study aimed to experimentally investigate flow-induced vibration of modified circular cylinders for wind-receiving mast of Vibration-Based Power Generator (VBPG).

Background Being a rotary machine, wind turbine generators (WTG"s) are subject to cyclical loads and stress variations over long periods. Vibration from this cyclical variation may result...

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