

## PEES Power Systems

**The wind power tower has  
excess capacity right**



## Overview

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However, a recent analysis shows that wind curtailment is not caused by an oversupply of wind energy. Rather, its main causes include insufficient transmission capacity, the inflexible operation of coal-fired power plants, and a lack of battery storage. This report presents the opportunities, challenges, and potential associated with increasing wind turbine tower heights, focusing on land-based wind energy technology. That's taller than the Statue of Liberty! The average hub height for offshore wind turbines in the United States is projected to grow even taller—from 100 meters. In 2021, MHI Vestas Offshore Wind's V164 will rise 105 meters high at the hub, swing 80-meter blades, and generate up to 10 MW, making it the first commercially available double-digit turbine ever. This rated capacity helps.

## The wind power tower has excess capacity right

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### Mythbusting "Wind Oversupply"

There are multiple causes for wind curtailment, but attributing it all to "wind oversupply" gives a false impression that there is too much wind. If anything, the opposite is true.

## Wind Energy Factsheet

Global wind capacity increased 11% annually over the last decade, reaching 1,136 GW in 2024. China led in new and cumulative capacity, followed by the U.S. and Germany. 21



### Busting the right-wing myth of "Wind Oversupply"

In this article, we bust the myth of wind Oversupply, which is actually a symptom of causes include insufficient transmission capacity.

## Excess Capacity

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If there is excess capacity, as is typically designed into buildings, the additional fan horsepower is wasted, and more heating and cooling than is necessary may be occurring. Reducing ...



**OEM service**

Hot Colors:



Color can be customized  
more questions just do not hesitate to contact us

LOGO Position: (Screen printing)



**Increasing Wind Turbine Tower Heights: Opportunities and ...**

Although the lower specific power BAU and Low-SP turbines have higher absolute capacity factors, they also spend more time at full rated power, which limits their ability to increase annual energy ...

**Wind Power , Pros, Cons, Debate, Arguments, Alternative Energy**

Is wind power a good form of energy?  
Pro 1: Wind power is cheaper than fossil fuel energies. Wind power is often cheaper than fossil fuel-based energies, because its energy source is ...



**Why Are Wind Farms Never Able to Produce at Full Power?**



Wind farms don't seem to be able to produce at their rated full power capacity, nor reach their planned average yearly capacity factor. There is always a little 5% to 10% of their production missing at all ...

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## Wind Turbines Just Keep Getting Bigger, But There's a Limit

Wind turbines have certainly grown up. When the Danish firm Vestas began the trend toward gigantism, in 1981, its three-blade machines were capable of a mere 55 kilowatts.



✓ TELECOM CABINET

✓ BRAND NEW ORIGINAL

✓ HIGH-EFFICIENCY

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## Understanding Wind Turbine Capacity: A Complete Guide

As we delve into this comprehensive guide, we'll explore how wind turbine capacity influences energy production and shapes the future of sustainable power generation.

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## Wind Turbines: the Bigger, the Better

Turbine towers are becoming taller to

capture more energy, since winds generally increase as altitudes increase. The change in wind speed with altitude is called wind shear.



## Busting the right-wing myth of "Wind Oversupply"

There are multiple causes for wind curtailment, but attributing it all to "wind oversupply" gives a false impression that there is too much wind. If ...

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