Land based wind turbines

The annual Land-Based Wind Market Report provides an overview of trends and policies in the U.S. power industry, primarily focusing on land-based, utility-scale wind turbines over 100 kilowatts in size.

These turbines, now commercially available from manufacturers such as Vestas, enable the harnessing of wind resources in regions previously considered unsuitable, including vast areas of the Southeast.

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The United States has been using land-based wind turbines to generate renewable energy for decades. PNNL researchers work to address the remaining challenges the wind industry faces and optimize ...

Use the slider and interactive maps below to see land-based wind energy capacity by state (with additions from 2023) and percentage of in-state generation (and sales). Wind turbines continue to ...

Learn about onshore wind turbines, their components, operation, and role in sustainable land-based energy production.

The focus is on land-based wind turbines over 100 kW in size, though the "Installation Data" and "Industry Data" sections often contain combined data inclusive of all utility-scale wind installations.

Due to their taller heights, larger rotors, and higher sound power levels, future wind turbines will require larger setbacks from homes and greater inter-turbine spacing, resulting in fewer ...

Wind Resource Maps and Data Find and download resource map images and data for North America, the contiguous United States, Canada, Mexico, and Central America. Wind Supply ...

We selected these four wind turbine technologies in consultation with industry to represent the range of technology we expect to be available in 2030, including a higher-specific-power machine that would ...

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