Wind Resource of the United States

Annual Average Wind Speed at 100 Meters above Surface Level

Washington
Oregon
California
Nevada
Idaho
Montana
Wyoming
Utah
Arizona
Colorado
New Mexico
North Dakota
South Dakota
Nebraska
Kansas
Oklahoma
Texas
Minnesota
Iowa
Missouri
Arkansas
Louisiana
Wisconsin
Illinois
Michigan
Indiana
Ohio
Kentucky
Tennessee
Mississippi
Alabama
Georgia
Florida
South Carolina
North Carolina
Virginia
West Virginia
Pennsylvania
New York
Maryland
Delaware
New Jersey
Connecticut
Massachusetts
Vermont
New Hampshire
Maine
Lake Superior
Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
CANADA
MEXICO
Pacific Ocean
Atlantic Ocean
Gulf of Mexico

Alaska
No Data Currently Available
RUSSIA
CANADA
Bering Sea
Gulf of Alaska
0 200 400 Miles

Hawaii
No Data Currently Available
Pacific Ocean
0 50 100 Miles

0 150 300 Miles

About the Data

The data shown are average wind speeds at 100 meters above surface level, derived from modeled resource estimates developed by NREL via the WIND Toolkit. Currently, data for Alaska and Hawaii are not available.

Wind Speed (meters/second)
- ≥ 10
- 9.0 to 9.9
- 8.0 to 8.9
- 7.0 to 7.9
- 6.0 to 6.9
- 5.0 to 5.9
- 4.0 to 4.9
- 3.0 to 3.9
- < 3.0

For more information, visit:
https://www.nrel.gov/grid/wind-toolkit.html

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

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