



Distributed wind turbines

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The annual Distributed Wind Market Report provides stakeholders with statistics and analysis of the distributed wind market-- which includes power from wind turbines installed near where the power will be used--along with insight into U.S. trends and characteristics.

Cumulative U.S. distributed wind capacity installed from 2003 through 2023 now stands at 1,110 megawatts (MW) from over 92,000 wind turbines across all 50 states, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, the Northern Mariana Islands, and Guam.

The capacity, number in turbines, and investment amounts added in 2023 for small wind deployed in the United States increased compared to previous years. In 2023, 1,994 small wind turbines were installed representing \$15.2 million of investment. In the previous two years, 1,745 turbines were installed in 2022 representing \$14.6 million of investment and 1,742 turbines installed in 2021 representing \$9.2 million of investment.

In 2024, DOE and USDA launched the Rural and Agricultural Income and Savings from Renewable Energy (RAISE) Initiative, a joint effort with the goal of helping farmers cut costs and increase income through REAP-supported distributed wind projects.

This is an E3120 at a small farm. While Endurance is out of business, folks like Gary Harcourt and Ian Sleger of All Energy Management are busy refurbishing these machines all over the world. Location: Edgartown, Massachusetts

One of two turbines owned by Gundersen Health System and Organic Valley near Cashton, Wisconsin. The electricity from this wind farm is used by homes and businesses, as well as fed into the energy grid. Gundersen and Organic Valley are paid for the energy generated.

This dairy farm in Yuma, Colorado, is an agricultural facility that utilizes two 100-kilowatt Northern Power Systems wind turbines to offset high energy demand.

The Brock Environmental Center in Virginia Beach, Virginia, has two 10-kilowatt turbines installed, integrated with solar panels and geothermal wells. The center produces more electricity than it uses.

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