

"Harnessing **power from the wind** is one of the **cleanest and most sustainable** ways to generate electricity as it produces **no toxic pollution** or global warming emissions."

- Union of Concerned Scientists¹



WIND POWER SAVES WATER



Wind-generated electricity saved

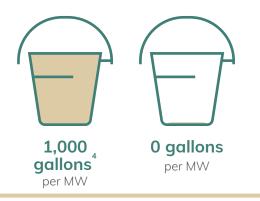
103 billion gallons

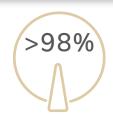
of water in 2019, the equivalent of

156,000

Olympic-sized swimming pools.²

WATER CONSUMPTION BY FUEL SOURCE





of land used for wind farms is untouched by turbines and other infrastructure.

The remainder of the land can be used for productive purposes, including livestock grazing, agriculture, wildlife habitat, highways, and hiking trails.⁵

POLLUTION

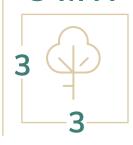


Fossil fuel power plants emit NO_x and SO_2 pollution, causing smog and acid rain. In 2019, wind power abated more than 881 million pounds of air pollution.²



Carbon pollution
avoided by
wind power in
the U.S. is the
equivalent of
planting a forest
the size of
Minnesota.²

3 MW = 3 MI²



A 3 MW turbine avoids the same amount of carbon pollution as planting 3 square miles of forest.⁶

¹Union of Concerned Scientists. 2017. <u>Environmental Impacts of Wind Power.</u>
²American Wind Energy Association. 2019. <u>U.S. Wind Industry Annual Market Report.</u>

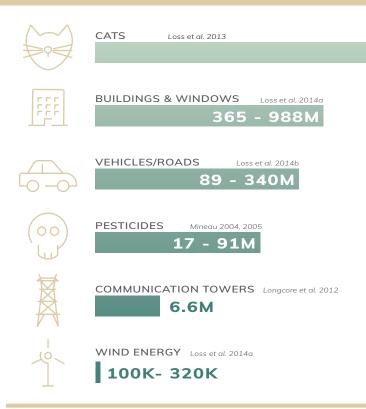
³U.S. Department of Energy, 2015. Wind Vision: <u>A New Era for Wind Power in the United States.</u>

⁴Union of Concerned Scientists. 2011. <u>Freshwater Use by U.S. Power Plants.</u>

Denholm, P., M. Hand, M. Jackson, and S. Ong. 2009. <u>Land-use requirements of modern wind power plants in the United States.</u> Golden, CO: National Renewable Energy Laboratory. NREL. 2008. <u>20% Wind Energy by 2030: Increasing Wind Energy's Contribution to U.S. Electricity Supply.</u>



CAUSES OF BIRD MORTALITY



Bird fatalities at wind energy facilities represent a very small fraction of total annual human-caused bird mortality, approximately 2 to 4 orders of magnitude lower than other human sources of bird mortality.⁹

1.4B - 3.7B

Wind energy is far less harmful to wildlife than the energy sources it traditionally displaces, and the industry is proactively addressing the modest impacts on wildlife it does have.⁷ The National Audubon Society strongly supports properly sited wind power as a renewable energy source that helps reduce the threats posed to birds.⁸



⁷American Wind Energy Association. 2020. Wildlife.

⁸National Audubon Society. <u>Audubon's Position on Wind Power</u>.