



# Renewable energy wind turbines

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Wind energy is a form of renewable energy, typically powered by the movement of wind across enormous fan-shaped structures called wind turbines. Once built, these turbines create no climate-warming greenhouse gas emissions, making this a "carbon-free" energy source that can provide electricity without making climate change worse. Wind energy is the third-largest source of carbon-free electricity in the world (after hydropower and nuclear)<sup>1</sup> and the second-fastest-growing (after solar).<sup>2</sup>

4 Wiser, Ryan, et al. "Expert elicitation survey predicts 37% to 49% declines in wind energy costs by 2050." Nature Energy 6, 2021, doi:10.1038/s41560-021-00810-z.

5 U.S. Department of Energy Office of Energy Efficiency and Renewable Energy: "U.S. Department of Energy's Wind Energy Technologies Office--Lasting Impressions." January 2021.

6 Intergovernmental Panel on Climate Change: "Climate Change 2014: Mitigation of Climate Change. Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change." Annex III: Technology-Specific Cost and Performance Parameters. 2014.

8 Lovering, Jessica, et al. "Land-use intensity of electricity production and tomorrow's energy landscape." PLoS One 17(7), July 2022, doi:10.1371/journal.pone.0270155.

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