

Wind Energy and Birds

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It goes without saying that no human activity is completely devoid of potential impact on the environment. However, studies consistently show that wind energy is much less harmful to wildlife than the traditional energy sources it displaces. In fact, not only is wind energy one of the most cost-effective and environmentally-friendly ways to generate electricity, but it is supported by The Audubon Society, the National Wildlife Federation, and the World Wildlife Fund.

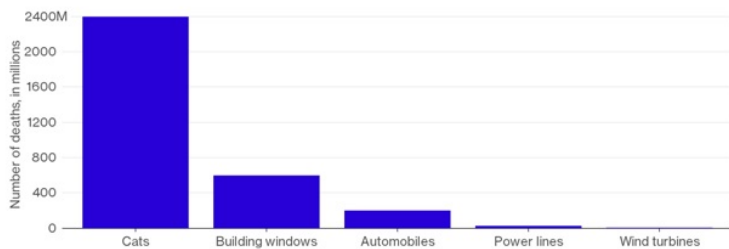
It is a reality that our society needs a vast amount of energy to function -- and that energy has to come from somewhere. We don't make the choice between wind energy and nothing; we make the choice between wind and other sources of energy, which have far more detrimental effects on our natural environment and higher rates of bird mortality.

The wind industry is [committed](#) to mitigating, if not eliminating, avian mortalities and works alongside the [American Wind Wildlife Institute](#) and the [Bats and Wind Energy Cooperative](#) in the latest technological and siting mitigation procedures, such as acoustic deterrents and potential mitigation through changes in operations. Wind energy is also held to a [strict standard](#) by the U.S. Fish and Wildlife Service.

When you look at the number of human-caused bird mortalities, the [bulk of them](#) are caused by domestic cats (72.2 percent); wind energy only accounts for 0.01 percent of human-caused bird deaths. Cats, cell phone towers, high rise buildings, and cars all pose a threat to birds magnitudes higher than wind energy. According to a 2007 [National Academy of Sciences study](#), less than three in 100,000 of human-caused bird fatalities are attributed to wind energy.

Bird Deaths

Aside from habitat loss, the greatest cause of bird deaths are cats, tall buildings



Source: National Audubon Society

Bloomberg

Eagle populations have never been, and are not now, at risk from wind power. The [USFWS eagle permit program](#) encourages conservation of eagles and address all human causes of eagle loss. They issue a permit for applicants to agree to specific measures to reduce mortalities as much as possible, and the USFWS issues these same permits to the oil and gas industry, farming and ranching, mining, utilities, transportation, and others. Since 2009, over 400 permits [have been issued](#) under this program. Three

permits (less than one percent) have been issued to wind companies. Additionally, upgrades to outdated equipment with modern turbines have already reduced golden eagle impacts by 80 percent. Wind energy has the lowest impacts on birds, wildlife, and habitats of any large-scale source of generating electricity.

Additionally, coal, natural gas, and nuclear electricity generation all have [higher bird fatalities](#) per Gigawatt/hour than wind energy. That means that coal, natural gas, and nuclear use are far greater threats to birds than from wind energy.

The National Audubon Society, the most prominent advocate for protecting birds and their habitat, [has stated](#) that "you can't be against renewable energy, wind and solar, if you are for protecting birds."

The National Renewable Energy Laboratory with the Department of Energy has partnered with the wind industry to [study new ways](#) to mitigate avian mortalities. The team worked with Laufer wind and RES Americas to test detection systems on turbines that detect when a bird is flying nearby with enough time for the turbine blades to stop spinning and prevent a collision. This new radar system is the latest in the wind industry's decade-long track record of mitigating wildlife impacts.

Wind energy is an environmentally-friendly way to generate electricity because it does not emit air or water pollution, does not require mining or drilling for fuel, uses virtually no water in the generation of electricity, and creates no hazardous or radioactive waste that requires permanent storage. When you compare wind energy to other sources of electricity generation, it's a clear win on both cost and its effect on the environment.

Want to learn more about wind energy and bird and bat populations? Check out [this fact sheet](#) on the topic and our [FAQ section](#) to learn more.