



Wind Energy Wildlife and Siting Resources and References

The following studies and articles are referenced in the materials prepared by AWEA on wind project siting and wildlife issues. Internet links are provided in most cases so that readers may consult these sources independently.

WILDLIFE

- *Audubon Society of Portland [Oregon] "Goes Green" and Signs Up for One Hundred Percent Renewable Energy* (Jul 2003) http://www.rnp.org/News/pr_AudubonJuly03.html
- *Avian Collision and Electrocutation: An Annotated Bibliography*, California Energy Commission (Oct 1995) http://www.energy.ca.gov/reports/avian_bibliography.html
- *Avian Collisions with Wind Turbines: A Summary of Existing Studies and Comparisons to Other Sources of Avian Collision Mortality in the United States*, National Wind Coordinating Committee (Aug 2001) http://www.west-inc.com/reports/avian_collisions.pdf
- *Birdwatcher's Guide to Global Warming*, American Bird Conservancy <http://www.abcbirds.org/climatechange/birdwatchersguide.pdf>
- *Cats and Wildlife: A Conservation Dilemma*, University of Wisconsin – Madison (1997) <http://wildlife.wisc.edu/extension/catfly3.htm>
- *Climate Change and West Virginia*, U.S. Environmental Protection Agency (Sep 1998) [http://yosemite.epa.gov/oar/globalwarming.nsf/UniqueKeyLookup/SHSU5BWK7K/\\$File/wv_impct.pdf](http://yosemite.epa.gov/oar/globalwarming.nsf/UniqueKeyLookup/SHSU5BWK7K/$File/wv_impct.pdf)
- *The Environmental Imperative for Renewable Energy: An Update*, Renewable Energy Policy Project (Apr 2000) http://www.repp.org/repp_pubs/articles/envImp/envImp.pdf
- *Global Warming and the Species Richness of Bats in Texas*, Conservation Biology (Apr 1996) http://ecosystems.wcp.muohio.edu/studentresearch/climatechange02/ecosystems/articles/GlobalWarming_Bats.pdf
- *Mercury and Midwest Power Plants*, Clean Air Task Force (Feb 2003) http://www.catf.us/publications/reports/Midwest_Mercury.php
- *Migratory Bird Mortality: Many Human-Caused Threats Afflict Our Bird Populations*, U.S. Fish and Wildlife Service (Jan 2002) <http://birds.fws.gov/mortality-fact-sheet.pdf>
- *Potential Effects of Global Climate Change on Bats*, U.S. Geologic Service <http://geochange.er.usgs.gov/sw/impacts/biology/bats/>

- *Save the Loons With Wind Energy: Comparative Impacts of Wind and Other Energy Sources on Wildlife*, American Wind Energy Association
<http://www.awea.org/pubs/factsheets/wildlife.pdf>
- *Synthesis and Comparison of Baseline Avian and Bat Use, Raptor Nesting and Mortality Information from Proposed and Existing Wind Developments*, Bonneville Power Administration (Dec 2002)
http://www.bpa.gov/Power/pgc/wind/Avian_and_Bat_Study_12-2002.pdf
- *Unusual Alliance Hopes to Keep Bats Out of Wind Turbines*, American Wind Energy Association (Mar 2004) <http://www.awea.org/news/news040303bat.html>
- Western EcoSystems Technology, Inc. Wind/Avian Studies Page: http://www.west-inc.com/wind_reports.php
- *What Kills Birds*, Curry & Kerlinger <http://www.currykerlinger.com/birds.htm>

POLLUTION, CLIMATE CHANGE and WILDLIFE:

- *Arctic Warming Signals Dire Straits for Birds*, Environmental News Network (Apr 2000)
http://www.enn.com/news/enn-stories/2000/04/04052000/arcticbird_11676.asp
- *Benchmarking Air Emissions of the 100 Largest Electric Power Producers in the United States – 2002*, Natural Resources Defense Council (Apr 2004)
http://www.nrdc.org/air/pollution/benchmarking/2002/benchmark2002_pt1.pdf
- *Carbon Dioxide Emissions from the Generation of Electric Power in the United States*, Energy Information Administration (Jul 2000)
http://www.eia.doe.gov/cneaf/electricity/page/co2_report/co2report.html
- *Climate Change and Midwest Power Plants*, Clean Air Task Force (Feb 2002)
http://www.catf.us/publications/reports/midwest_climate.php
- *Cradle to Grave: The Health and Environmental Impacts of Coal-Fired Plants*, Clean Air Task Force (Jun 2001) http://www.catf.us/publications/reports/cradle_to_grave.php
- *Laid to Waste: Environmental Impacts of Coal Waste*, Clean Air Task Force (Mar 2000)
http://www.catf.us/publications/reports/laid_to_waste.php
- *Effects of Acid Rain: Forests*, U.S. Environmental Protection Agency
<http://www.epa.gov/airmarkets/acidrain/effects/forests.html>
- *Falling Mercury*, Environmental Working Group (Nov 1999)
<http://www.ewg.org/reports/mercuryfalling/MercuryFalling.pdf>
- *Extinction Risk from Climate Change*, Nature (Jan 2004) http://www.nature.com/cgi-taf/DynaPage.taf?file=/nature/journal/v427/n6970/full/nature02121_fs.html
- *“Is Acid Rain Killing Off Wood Thrushes?”* National Geographic (Aug 2002)
http://news.nationalgeographic.com/news/2002/08/0813_020813_acidrain.html
- *Clean Energy: A Positive Solution to Global Warming*, Greenpeace
<http://www.cleanenergynow.org/cleanenergy/>
- *Mercury in Many Lakes, Rivers*, USA Today (Aug 2004)
http://www.usatoday.com/news/nation/2004-08-24-mercury-lede_x.htm
<http://www.epa.gov/waterscience/fish/advisories/factsheet.pdf>

- *How to Fight Global Warming*, Natural Resources Defense Council, <http://www.nrdc.org/globalWarming/gsteps.asp>
- *Managing for Forest Songbirds*, Ohio State University Extension <http://ohioline.osu.edu/w-fact/0006.html>
- *Clean Power Comes On Strong*, Sierra Club <http://www.sierraclub.org/energy/renewablesfactsheet.pdf>

SITING:

- *Permitting of Wind Energy Facilities: A Handbook*, National Wind Coordinating Committee (Aug 2002) <http://www.nationalwind.org/pubs/permit/permitting2002.pdf>
- *Serious Wind*, Orion (Jul 2003) <http://www.cleanair-coolplanet.org/information/seriouswind.php>
- *Wind and Wildlife in Washington: Negotiating Changes to the Washington Department of Fish and Wildlife's Wind Power Guidelines*, Renewable Northwest Project (May 2003) <http://www.rnp.org/Resources/Sonja%20Ling%20AWEA%202003%20WDFW.pdf>

ECONOMIC DEVELOPMENT:

- *From Snack Bars to Rebar*, Lawrence & Associates (Mar 2004) <http://www.state.co.us/oemc/events/cwade/2004/presentations/cox.pdf>
- *The Effect of Wind Development on Property Values*, Renewable Energy Policy Project (May 2003) http://www.repp.org/articles/static/1/binaries/wind_online_final.pdf
- *The Work That Goes Into Renewable Energy*, Renewable Energy Policy Project (Nov 2001) http://www.repp.org/articles/static/1/binaries/LABOR_FINAL_REV.pdf

ECONOMICS of WIND ENERGY:

- *Cash Crop on the Wind Farm*, Institute for Energy and Environmental Research (2004) <http://www.ieer.org/reports/wind/cashcrop/index.html> .
- *The Impact of a Renewable Portfolio Standard on Retail Electric Rates in Colorado*, Public Policy Consulting (Feb 2004) http://makingchange.typepad.com/neowind/2004/02/study_wind_powe.html
- *Net Energy Payback and CO2 Emissions from Wind Generated Electricity in the West*, Energy Center of Wisconsin, University of Wisconsin – Madison (Dec 1998) <http://www.ecw.org/ecw/download.jsp?producturl=/prod/180-1.pdf>

FEDERAL SUPPORT for ENERGY:

- *Energy Subsidies*, American Wind Energy Association <http://www.awea.org/faq/subsidi.html>
- *Federal Energy Subsidies: Not All Technologies are Created Equal*, Renewable Energy Policy Project (Jul 2000) http://www.repp.org/repp_pubs/articles/resRpt11/subsidies.pdf
- *Federal Financial Investments and Subsidies in Energy Markets 1999: Primary Energy*, Energy Information Administration (Jul 2000) <http://www.eia.doe.gov/oiaf/servicerpt/subsidy/>

- *Fueling Global Warming: Federal Subsidies to Oil in the United States*, Greenpeace <http://www.greenpeace.org/~climate/oil/fdsub.html>
- Green Scissors Program <http://www.greenscissors.org/energy/index.htm>
- *Subsidies to Energy Industries*, Encyclopedia of Energy (2004) <http://www.earthtrack.net/earthtrack/library/Energy%20Encyclopedia,%20wv.pdf>
- Taxpayers for Common Sense <http://www.taxpayer.net/TCS/fuelsubfact.htm>

PROPERTY VALUES:

- *The Effect of Wind Development on Property Values*, Renewable Energy Policy Project (May 2003) http://www.repp.org/articles/static/1/binaries/wind_online_final.pdf
- *Economic Impacts of Wind Power in Kittitas County*, ECONorthwest, Inc. for the Phoenix Economic Development Group, now Economic Development Group of Kittitas County (Oct 2002) <http://www.phoenixgroupedc.org/Kittitas%20Wind,%20final.pdf>

UTILITY ISSUES:

- *Colorado Public Utility Commission's Xcel Wind Decision*, National Renewable Energy Laboratory (Jun 2001) http://www.eere.energy.gov/windpoweringamerica/pdfs/xcel_wind_decision.pdf
- *The Effects of Integrating Wind Power on Transmission System Planning, Reliability and Operations*, GE Power Systems Engineering Consulting (Mar 2004) http://www.nyserda.org/publications/wind_integration_report.pdf
- *The Impacts of Increased Levels of Wind Penetration on the Electric System of the Republic of Ireland and Northern Ireland: Final Report*, Garrad Hassan (Feb 2003) <http://www.ucc.ie/ucc/depts/civil/staff/brian/CER03024.pdf>
- *Integrated Resource Plan 2004*, PacifiCorp (Jan 2005) <http://www.pacifiCorp.com/File/File47422.pdf>
- *Wind Power Impacts on Electric Power System Operating Costs: Summary and Perspective on Work to Date*, Utility Wind Interest Group (Mar 2004) <http://www.uwig.org/windpower2004.pdf>
- *Some Common Misconceptions about Wind Power*, National Renewable Energy Laboratory (May 2003) http://www.eere.energy.gov/windpoweringamerica/pdfs/wpa/34600_misconceptions.pdf
- *Wind Integration Study*, Minnesota Department of Commerce and Xcel Energy. (Sep 2004) <http://www.uwig.org/operatingimpacts.html>

Climate Change and Energy Policies of National Environmental Organizations

American Bird Conservancy

www.abcbirds.org/policy/windenergy.htm

Environmental Defense

www.environmentaldefense.org/program_descriptions.cfm?subnav=3

Sierra Club

www.sierraclub.org/globalwarming

Natural Resources Defense Council

www.nrdc.org/air/energy/default.asp

Clear the Air (Joint project of the Clean Air Task Force, National Environmental Trust and the U.S. PIRG Education Fund)

www.cleartheair.org

Greenpeace

www.greenpeace.org/international_en/campaigns/intro?campaign_id=3937

World Wildlife Fund

www.worldwildlife.org/climate/index.cfm

National Wildlife Federation

www.nwf.org/climate

Union of Concerned Scientists

www.ucsusa.org/global_environment/global_warming/index.cfm

World Wildlife Fund

www.worldwildlife.org/climate/pubs.cfm