

Sources of Information on European Grouse and Wind Energy Development

The following sources were used to develop the [WREN Short Science Summary on European Grouse](#):

- Bevanger, K.; Berntsen, F.; Clausen, S.; Dahl, E.; Flagstad, Ø.; Halley, D.; Hanssen, F.; Johnsen, L.; Kvaløy, P.; Lund-Heel, P.; May, R.; Nygård, T.; Pedersen, H.; Reitan, O.; Roskaft, E.; Steinheim, Y.; Stokke, B.; Vang, R. (2010). Pre- and Post-Construction Studies of Conflicts Between Birds and Wind Turbines in Coastal Norway (BirdWind) Report on Findings 2007-2010 (NINA Report 620). Report by Norwegian Institute for Nature Research (NINA). <https://tethys.pnnl.gov/publications/pre-post-construction-studies-conflicts-between-birds-wind-turbines-coastal-norway-0>
- Bevanger, K.; Dahl, E.; Gjershaug, J.; Halley, D.; Hanssen, F.; Nygård, T.; Pearson, M.; Pedersen, H.; Reitan, O. (2010). Avian post-construction studies and EIA for planned ex-tension of the Hitra wind-power plant (NINA Report 503). Report by Norwegian Institute for Nature Research (NINA). <https://tethys.pnnl.gov/publications/avian-post-construction-studies-eia-planned-ex-tension-hitra-wind-power-plant>
- Bioscan (2001). Novar Windfarm Ltd Ornithological Monitoring Studies: Breeding Bird and Birdstrike Monitoring 2001 Results & 5-Year Review (Report No. E1003BM1). Report by Bioscan (UK) Ltd. <https://tethys.pnnl.gov/publications/novar-windfarm-ltd-ornithological-monitoring-studies-breeding-bird-birdstrike>
- Coppes, J.; Braunisch, V.; Bollmann, K.; Storch, I.; Mollet, P.; Grunschachner-Berger, V.; Taubmann, J.; Suchant, R.; Nopp-Mayr, U. (2019). The impact of wind energy facilities on grouse: a systematic review. *Journal of Ornithology*, 161, 1-15. DOI: 10.1007/s10336-019-01696-1. <https://tethys.pnnl.gov/publications/impact-wind-energy-facilities-grouse-systematic-review>
- Coppes, J.; Kämmerle, J.; Grunschachner-Berger, V.; Braunisch, V.; Bollmann, K.; Mollet, P.; Suchant, R.; Nopp-Mayr, U. (2020). Consistent effects of wind turbines on habitat selection of capercaillie across Europe. *Biological Conservation*, 244, 108529. DOI: 10.1016/j.biocon.2020.108529. <https://tethys.pnnl.gov/publications/consistent-effects-wind-turbines-habitat-selection-capercaillie-across-europe>
- Douglas, D.; Bellamy, P.; Pearce-Higgins, J. (2011). Changes in the Abundance and Distribution of Upland Breeding Birds at an Operational Wind Farm. *Bird Study*, 58(1), 37-43. DOI: 10.1080/00063657.2010.524914. <https://tethys.pnnl.gov/publications/changes-abundance-distribution-upland-breeding-birds-operational-wind-farm>
- Falkdalen, U.; Lindahl, L.; Nygård, T. (2013). Fågelundersökningar vid Storruns vindkraftanläggning, Jämtland (Bird surveys at Storrun's wind farm, Jämtland) (Report No. 6574). Report for Swedish Environmental Protection Agency (EPA). <https://tethys.pnnl.gov/publications/fagelundersokningar-vid-storruns-vindkraftanlaggning-jamtland-bird-surveys-storruns>
- Gonzalez, M.; Ena, V. (2011). Cantabrian Capercaillie signs disappeared after a wind farm construction. *Chioglossa*, 3, 65-74. <https://tethys.pnnl.gov/publications/cantabrian-capercaillie-signs-disappeared-after-wind-farm-construction>
- Gonzalez, M.; Garcia-Tejero, S.; Wengert, E.; Fuertes, B. (2016). Severe decline in Cantabrian Capercaillie *Tetrao urogallus cantabricus* habitat use after construction of a wind farm. *Bird Conservation International*, 26(2), 256-261. DOI: 10.1017/S0959270914000471. <https://tethys.pnnl.gov/publications/severe-decline-cantabrian-capercaillie-tetrao-urogallus-cantabricus-habitat-use-after>

- Grunschachner-Berger, V.; Kainer, M. (2011). Birkhühner *Tetrao tetrix* (Linnaeus 1758): Ein Leben zwischen Windrädern und Schiliften. *Egretta*, 52, 46-54. <https://tethys.pnnl.gov/publications/birkhuhner-tetrao-tetrix-linnaeus-1758-ein-leben-zwischen-windrädern-und-schiliften>
- Meek, E.; Ribbands, J.; Christer, W.; Davy, P.; Higginson, I. (1993). The Effects of Aero-Generators on Moorland Bird Populations in the Orkney Islands, Scotland. *Bird Study*, 40(2), 140-143. DOI: 10.1080/00063659309477139. <https://tethys.pnnl.gov/publications/effects-aero-generators-moorland-bird-populations-orkney-islands-scotland>
- Naturvårdsverket (2013). 2013 Conference on Wind Power and Environmental Impacts: Book of Abstracts. Stockholm, Sweden. <https://tethys.pnnl.gov/publications/2013-conference-wind-power-environmental-impacts-book-abstracts>
- Pearce-Higgins, J.; Stephen, L.; Douse, A.; Langston, R. (2012). Greater impacts of wind farms on bird populations during construction than subsequent operation: results of a multi-site and multi-species analysis. *Journal of Applied Ecology*, 49(2), 386-394. DOI: 10.1111/j.1365-2664.2012.02110.x. <https://tethys.pnnl.gov/publications/greater-impacts-wind-farms-bird-populations-during-construction-subsequent-operation>
- Pearce-Higgins, J.; Stephen, L.; Langston, R.; Bainbridge, I.; Bullman, R. (2009). The Distribution of Breeding Birds around Upland Wind Farms. *Journal of Applied Ecology*, 46(6), 1323-1331. DOI: 10.1111/j.1365-2664.2009.01715.x. <https://tethys.pnnl.gov/publications/distribution-breeding-birds-around-upland-wind-farms>
- Stokke, B.; Nygård, T.; Falkdalen, U.; Pedersen, H.; May, R. (2020). Effect of tower base painting on willow ptarmigan collision rates with wind turbines. *Ecology and Evolution*, 10(12), 1-10. DOI: 10.1002/ece3.6307. <https://tethys.pnnl.gov/publications/effect-tower-base-painting-willow-ptarmigan-collision-rates-wind-turbines>
- Working Group of German State Bird Conservancies (2015). Recommendations for distances of wind turbines to important areas for birds as well as breeding sites of selected bird species. *Vogelschutz*, 51, 15-42. <https://tethys.pnnl.gov/publications/recommendations-distances-wind-turbines-important-areas-birds-well-breeding-sites>
- Zeiler, H.; Grunschachner-Berger, V. (2009). Impact of Wind Power Plants on Black Grouse, *Lyrurus tetrix* in Alpine Regions. *Folia Zoologica*, 58(2), 173-182. <https://tethys.pnnl.gov/publications/impact-wind-power-plants-black-grouse-lyrurus-tetrix-alpine-regions>
- Zwart, M.; Robson, P.; Rankin, S.; Whittingham, M.; McGowan, P. (2015). Using Environmental Impact Assessment and Post-Construction Monitoring Data to Inform Wind Energy Developments. *Ecosphere*, 6(2), 26. DOI: 10.1890/ES14-0033.1.1. <https://tethys.pnnl.gov/publications/using-environmental-impact-assessment-post-construction-monitoring-data-inform-wind>