

International Energy Agency (IEA)

Implementing Agreement for Co-operation in the Research and Development of Wind Turbine Systems (IEA Wind)

Task 34-WREN: Working Together to Resolve Environmental Effects of Wind Energy

10/1/2012-9/30/2020

OBJECTIVE

Facilitate international collaboration to advance the understanding of the environmental effects of offshore and land-based wind energy development.

STRATEGY

Create a shared global knowledge base and community around research, monitoring, and management of the environmental effects of wind energy development.

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An American bald eagle was part of research being conducted at the National Wind Technology Center at the National Renewable Energy Laboratory (NREL). The bird was released to gather predetermined flight pattern data. *Photo by Lee Jay Fingersh, NREL 35729*



Primary Activities

WREN HUB

A dedicated, publicly available, centralized knowledge management system providing easy access to existing information pertaining to wind-wildlife issues for both offshore and land-based wind energy.

WREN Hub can be accessed at <https://tethys.pnnl.gov>

COLLABORATE

- Support WREN meetings
- Create white papers
- Join collective workspace

WREN* HUB

*IEA Wind Task 34

ENGAGE

- Share research information
- Track ongoing research
- Connect to social media
- Manage events calendar
- Convene topical webinars

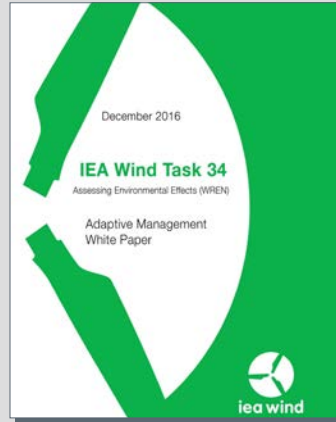
ACCESS INFORMATION

- Access environmental effects information
- Find experts
- Search linked databases
- Compare country-specific information
- Convene topical webinars

WHITE PAPERS

Current topics include adaptive management, individual impacts to population effects, environmental risk-based management, cumulative effects analysis, and green versus green.

The "Adaptive Management White Paper" can be found at <https://tethys.pnnl.gov/publications/assessing-environmental-effects-wren-white-paper-adaptive-management-wind-energy>



MEMBER COUNTRIES

Country	Organization
Canada	Environment and Climate Change Canada
France	EDF R&D
Ireland	BirdWatch Ireland
Netherlands	Rijkswaterstaat–Department of Water Quality
Norway	Norwegian Institute for Nature Research
Portugal	STRIX, Environment and Innovation
Spain	Spanish National Research Council
Sweden	Swedish Energy Agency; Vindval
Switzerland	Federal Office of Energy
United Kingdom	Marine Scotland Science–Marine Laboratory
United States	National Renewable Energy Laboratory Pacific Northwest National Laboratory U.S. Department of Energy

OUTREACH & ENGAGEMENT

Various mechanisms including short science summaries, webinars, fact sheets, conferences, meetings, workshops, and expert forums.

The WREN Short Science Summary on harbor porpoises can be found at <https://tethys.pnnl.gov/publications/wren-sss-harbor-porpoise>

WREN environmental webinars can be found at <http://tethys.pnnl.gov/environmental-webinars>

