

Wind Renewable Energy Services



OUR BACKGROUND

H. T. Harvey & Associates wind energy team members first became involved in the late 1970s with wind projects, including some of the earliest avian studies associated with turbine siting and operations in the western United States. Our staff has performed extensive wildlife surveys, fatality monitoring, and Section 7 consultations with the U.S. Fish and Wildlife Service (USFWS); assisted with permitting; and written habitat conservation plans to support wind energy project development. We combine this work experience with deep scientific expertise in terrestrial and marine birds, bats, and other wildlife, to deliver high-quality ecological consulting services for wind energy projects.



SENIOR STAFF

Principal, Scott Terrill, Ph.D., is an internationally recognized avian ecology and behavior expert. He also has a background in vertebrate community ecology and population biology in terrestrial, estuarine, and marine habitats.

Senior Associate Ecologist, Judd Howell, Ph.D., is the Wind Energy Team Lead. He has been involved with wind energy-related studies and projects since 1979. Judd is an internationally recognized wildlife expert with a strong background in avian and mammalian ecology, and has written more than 20 papers on wind energy project impacts on wildlife.

Associate Ecologist, Dave Johnston, Ph.D., is a wildlife ecologist and authority on bats and other small mammals of the western United States and Hawai'i. He has worked on bat projects for more than 25 years.

Senior Ecologist, David Ainley, Ph.D., is a noted avian ecologist who specializes in developing conservation strategies for threatened and endangered species in Hawai'i and elsewhere in the Pacific.

Senior Ecologist, Jeff Smith, Ph.D., is an ornithologist with particular expertise in raptor biology, ecology, and conservation. He serves on the Golden Eagle Science Team convened by USFWS, and has published more than 50 scientific papers on raptors.

WIND ENERGY SERVICES

- » Environmental impact analyses
- » Endangered and special-status species studies and consultations
- » Bird and bat conservation strategies
- » Permitting assistance
- » Habitat conservation plans in terrestrial and aquatic environments
- » Acoustic, fatality, and other monitoring
- » Applied research



We create ecologically sound solutions to our clients' complex natural resource challenges.

WIND ENERGY PROJECTS

Hawaiian hoary bat monitoring – O'ahu, HI

Baseline monitoring at a mitigation site for impacts of wind energy on the Hawaiian hoary bat. Acoustic and radio telemetry monitoring of bat use of wetlands.

Potential fatal flaw analysis – Yolo County, CA

Fatal flaw analysis for a proposed wind project in Yolo county, looking at all biological constraints. A detailed study on golden eagles revealed prime eagle habitat and extensive use of the area, including breeding activity.

Wind project constraints analyses – Washoe County, NV; Modoc and Lassen Counties, CA

Constraints analyses for a wind project and associated transmission lines running from Nevada to California across sage grouse habitat. Potential constraints included the presence of sage grouse, golden eagle, and other sensitive species.

California condor constraints analysis – Monterey County, CA

Preliminary analysis of the potential constraints that the California condor and raptors might pose to a potential wind farm development.

Acoustic monitoring and modeling of Hawaiian hoary bat – O'ahu, HI

Analysis of bat activities based on a series of biohabitat and weather variables at a wind energy site.

STUDIES AND PUBLICATIONS

Bird and Bat Movement Patterns and Mortality at the Montezuma Hills Wind Resource Area. California Energy Commission.

Developed a model that validated the effectiveness of mitigation measures for Hawaiian petrel and Newell's shearwater on Maui, which allowed a wind project to be permitted.

Coauthored West Coast Environmental Protocols Framework: Baseline and Monitoring Studies for DOE and BOEM.



EXAMPLES OF CLIENTS

BP Wind
Bureau of Land Management
Bureau of Ocean Energy Management (BOEM)
California Energy Commission
Department of Energy (DOE)
Duke Energy
E.ON
Iberdrola Renewables
NextERA Energy
NRG Energy
Pattern Energy
SunEdison (Hawai'i)



PROJECT LOCATIONS

California
Hawai'i
Colorado
Kansas
Montana
Nevada
The Caribbean



COMPANY OVERVIEW

Since 1970, the highly trained ecologists and professionals at H. T. Harvey & Associates have delivered exceptional consulting services to public agencies, private entities, and nonprofits.

CONTACT Us

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H. T. HARVEY & ASSOCIATES

Ecological Consultants

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