



National Wind
Coordinating Collaborative

Facilitated by:



Webinar

**Wind Energy and Greater Sage-Grouse:
Sage-Grouse Research Collaborative
Results**

November 9

2:00 – 3:30pm ET

Agenda

- Welcome and Logistics
- Background on Sage-Grouse Research Collaborative
 - Lauren Flinn, AWWI
- Effects of a Wind Energy Development on Greater Sage-Grouse Habitat Selection and Population Demographics in Southeastern Wyoming
 - Chad LeBeau, WEST
- Q&A
- Ecology of male Greater Sage-Grouse in relation to wind energy development in Wyoming
 - Chris Hansen, University of Missouri
- Q&A

Background

- Formed in 2010
- Goal: to coordinate studies examining the potential impacts of wind energy development on sage-grouse across their range with the goal of informing wind development and sage-grouse management strategies.
- Developed Research Protocols and an RFP



Purpose

The Collaborative ensures:

1. A rigorous, peer-reviewed approach to research design,
2. Involvement of multiple stakeholders and a coordinated approach to funding, and
3. Usefulness, quality, and communication of the research results.

Research Projects

Wind Site	Chokecherry and Sierra Madre (Power Company of Wyoming)	Seven Mile Hill (PacifiCorp)
Study Name	Ecology of male Greater Sage-grouse in relation to wind energy development in Wyoming	A study of the impacts of a wind energy development on Greater Sage-grouse populations in southeastern Wyoming
Team	<p>Joshua Millsbaugh, University of Montana Mark Rumble, U.S. Forest Service Scott Gamo, Wyoming Game & Fish Dept. Chris Hansen & Aleshia Fremgen, University of Missouri Jon Kehmeier & Nate Wojcik, SWCA Garry Miller, Power Company of Wyoming</p>	<p>Chad LeBeau, Greg Johnson, Ryan Nielson, Mandy Kauffman, and Trent McDonald, WEST Matthew Holloran, Wyoming Wildlife Consultants, currently at Operational Conservation Jeffrey Beck, University of Wyoming Eli Rodemake, Wyoming Wildlife Consultants, Currently at Image Spatial Consulting</p>
Study Design	Before After Control Impact (BACI)	Post-Construction Study (Control & Treatment)

Oversight Committee

- **Oversight** provided by **Committee** of stakeholders from:

- state/federal agencies
- academia
- conservation orgs
- wind developers

- **Governed** by detailed **Operating Protocols**

- Zachary Bowen, U.S. Geological Survey
- Karyn Coppinger, Invenergy
- Daly Edmonds & Brian Rutledge, Audubon Rockies
- Bradley Fedy, University of Waterloo
- Scott Gamo, Wyoming Game & Fish Dept
- Scott Gardner, California Dept of Fish & Game
- Patrick Gilman, U.S. Dept of Energy
- Christy Johnson-Hughes, U.S. Fish & Wildlife Service
- Don Kemner, Idaho Dept of Fish & Game
- Joe Kiesecker, The Nature Conservancy
- Jim Sedinger, University of Nevada
- Robin Sell, BLM Colorado State Office
- Karin Sinclair, NREL (Technical Monitor)

- Collaborative Funders:
 - Bureau of Land Management (administered through NFWF)
 - U.S. Department of Energy (administered by NREL)
 - U.S. Fish & Wildlife Service (administered through WAFWA)
 - Plains and Prairie Potholes LCC
 - Great Northern LCC
 - Multistate Conservation Grant Program
- Total Funding Received: ~\$2 million



U.S. DEPARTMENT OF
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Energy Efficiency &
Renewable Energy



Presentations

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 - Chad LeBeau, WEST
- Ecology of male Greater Sage-Grouse in relation to wind energy development in Wyoming
 - Chris Hansen, University of Missouri