Lessons Learned by a Recovering Applicant

Lisa Daniels Windustry Executive Director

USDA Farm Bill Grants for Wind Energy
Development in Montana
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Phase I

- Initial Site Selection
- Wind resource assessment
- Land acquisition Options/Easements
- Permitting
 - Conditional/Special Use Permit
 - Initial FAA Approval Form 7460-1



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In process

Complete

Not needed for USDA Application



Phase I

- Studies
 - Transmission Interconnection
 - Initial Environmental/Wildlife Studies
 - √ Federal Form R1940-20
 - Phase I Environmental Study
 - USDA Historic Preservation/ Cultural Survey
 - Initial Economic Feasibility
 - Radio/Microwave transmission



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Phase II

- Power Purchase Agreement
 - > At least a letter of intent to purchase from utility.
- Financing
 - Final Feasibility Analysis
 - Full project funding plan
 - Verification of leveraged funds
 - Risk Analysis
- Preconstruction engineering
- Construction bidding
 - Performance and Payment Bond
- Easement Agreement

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Phase III

- Site Preparation
- Project Management
- Construction
- Commissioning
- Operation

In process

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Phase IV

Ongoing Operations & Maintenance –20 to 30 years

Phase V

Decommissioning and Removal of Wind Farm

In process

Complete

Not needed for USDA Application



- Feasibility Study
 - Qualified Independent Consultant
 - Must be a PE if project is >\$100,000
- Federal Forms
 - Equal Opportunity
 - Drug-Free Workplace
 - Various certifications



Tips for Applicants

Lessons learned from a recovering applicant.



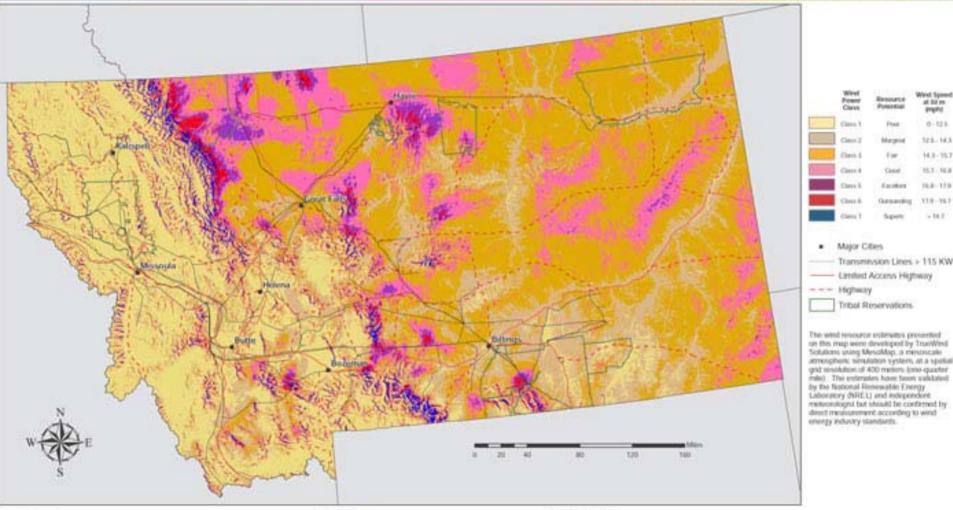
Get a handle on your wind resource

- How much wind do you have?
- Is it enough?
- What size wind turbine can work in the resource?
- What does the transmission look like at the site?



WINDPOWERMAPS.org

Montana Wind Power Resources













Project Sponsors

NSEL, the Bonneville Power Administration, Northwestern Energy, the Wyorning Benineric Council, enXco, the Northwest Power Planning Council, Jishia Ramewable Energy, Klickital County, Encrythled, ABB, Removable Energy Systems, (USA), Inc., Chilan Public Unity District, Bahia Power, Wedland, Inc., WSACAA Energy Project, Violan, Jones & Stokes, CHQM, HB, Surfox Energy, Northwest Wildlife Convolutions, inc., and Carlo Wind Power. For more information see were windpowern aps.org

Team Up

- It's a smart move, even if it's not your usual style.
- You need help putting the project together:
 - Financial analysis
 - Technical assistance consultants
 - Siting find the best wind site
 - Business structure
 - Learning about the energy industry and how to talk to a utility.



Use available resources

- Use any helpline or templates USDA offers
 - Kansas template
- Call your USDA officer as many times as it takes to get clarity on what you need to deliver – the earlier in the scheme of things the more receptive they'll be
- Also remember the energy title is new for the USDA folks too – so have patience and be clear in your questions.



Looking ahead

- Scoring-
 - Know how your application will be evaluated.
 - Know what questions you have to answer.
- Forms-
 - Find out what forms you need, get them and make plenty of extra copies.
 - Don't underestimate how long this will take.
- Submitting the Application-
 - Know how and when to turn in you application.
- Budget time and dollars to do all of this.

Commitment: A 20 year crop

- Making the Commitment
 - This is a long-term project that takes a serious level of commitment.
 - Start as early as you can.
- You can't do this in a day or a week
- This is different than anything you have ever done before.



Contact Information

Windustry

2105 First Ave. S.

Minneapolis, MN 55404

Phone: +1-612-870-3461

Fax: +1-612-870-4846

E-mail: info@windustry.org

Web: www.windustry.org

