

# Sac and Fox Tribe of the Mississippi in Iowa

## Meskwaki Nation

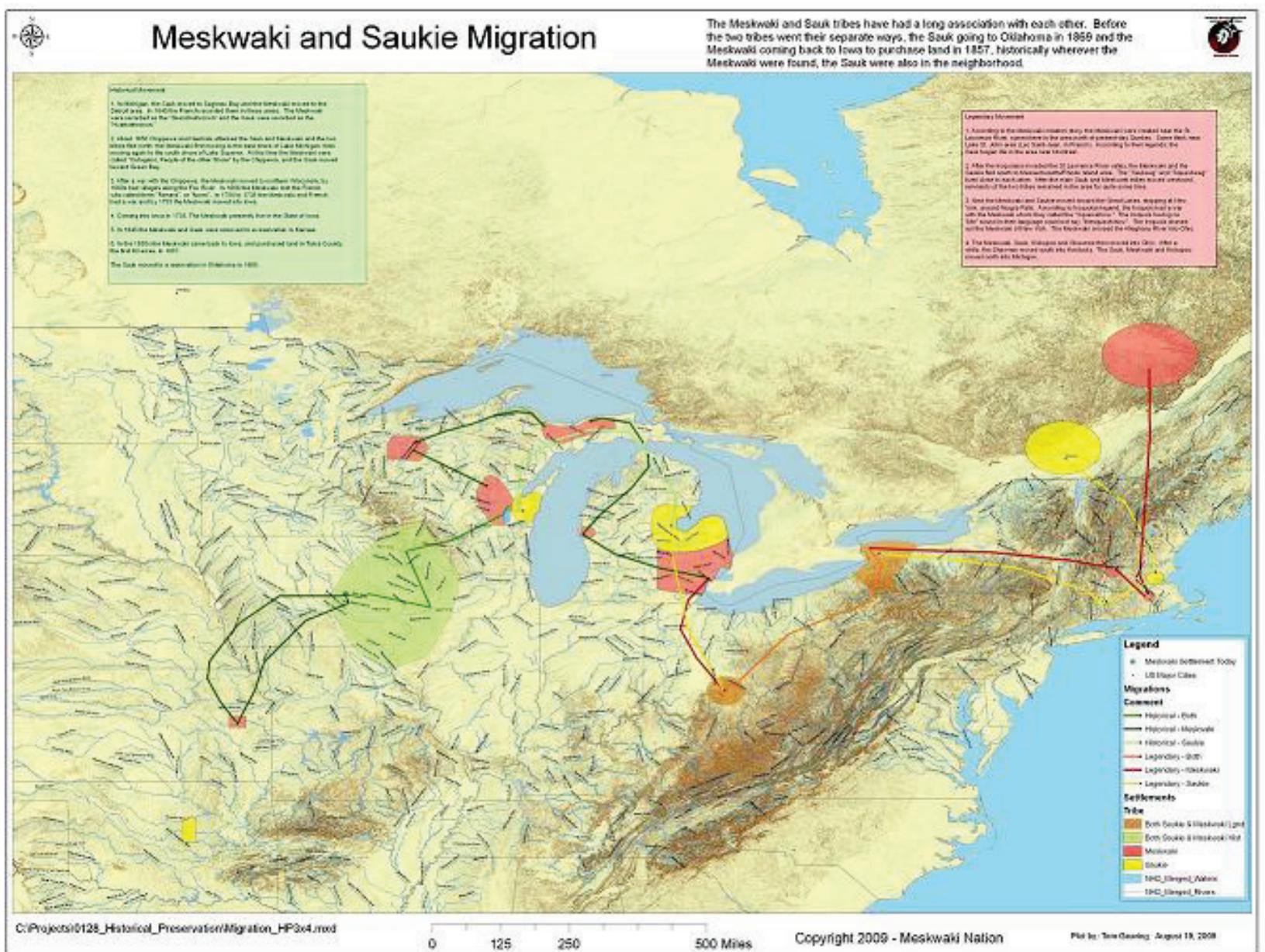


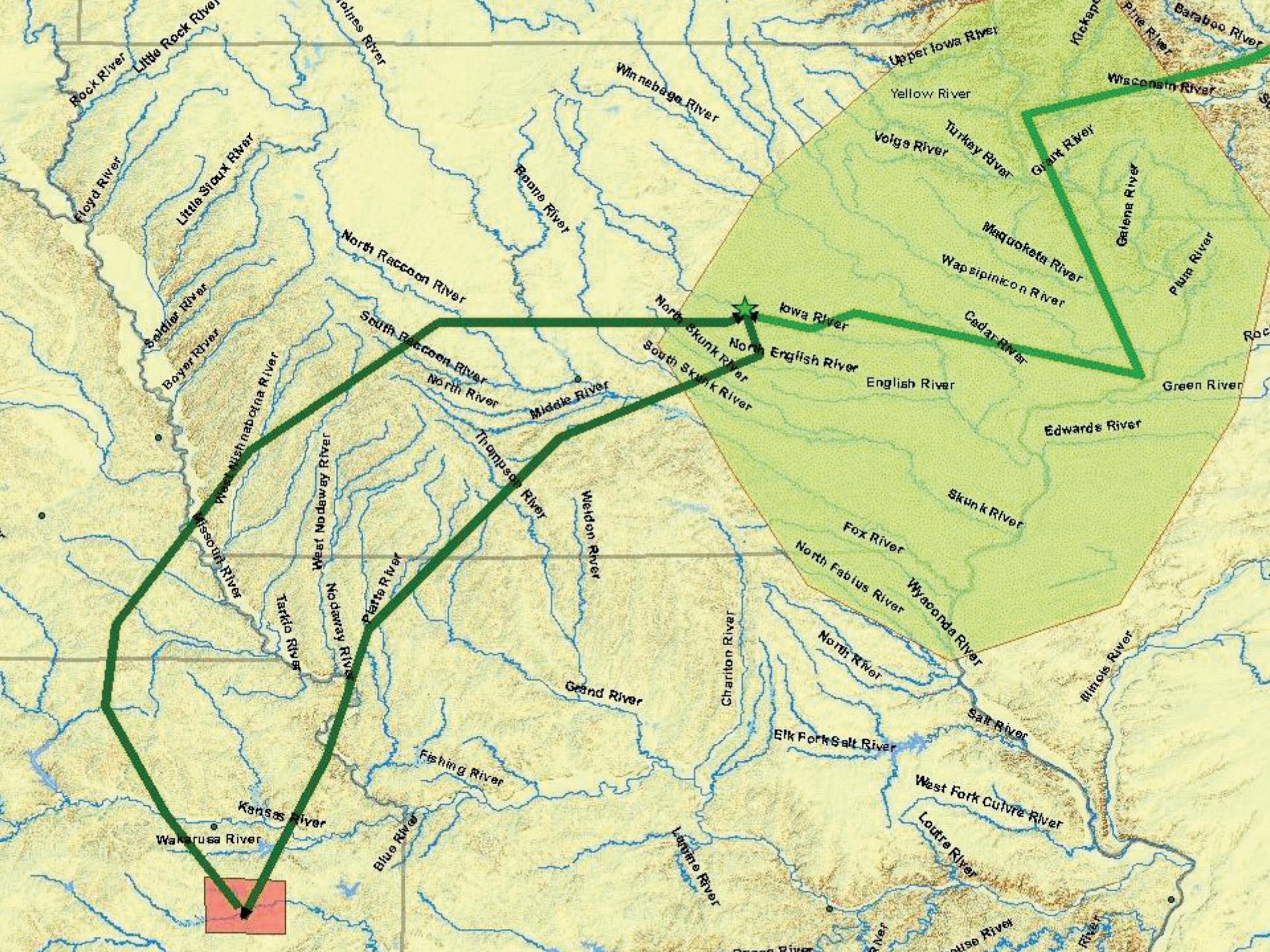
Department of Energy  
Tribal Energy Program Review 2009  
Denver, Colorado

Wind Energy Resource Assessment on Tribal Land  
Presented by: Thomas Gearing  
November 19, 2009

Project Participants:  
Technical POC: Thomas M. Gearing  
Business POC: Lucas Smith (Grants/Contracts Officer)

# Meskwaki History







secretary chu announces funding tribes alas

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tribal energy program review... Official Site of the Meskwaki... Home RSS Print Page Safety Tools

AVG

http://www.energy.gov/7803.htm

## Meskwaki Menu

### Meskwaki Nation Special Notices

Click the green outlined boxes for more information.



Meskwaki  
Annual  
Powwow

#### Meskwaki Nation Times Current Issue

Tribal Center Events - Weeks: [1](#) [2](#) [3](#) [4](#) [5](#)



Wind Energy  
Project and  
RFP info



## Sac & Fox Tribe

Hello Friend, we are pleased to welcome you to the official website of the Sac and Fox Tribe of the Mississippi in Iowa/Meskwaki. Our Tribe is governed by a seven member Tribal Council entrusted with the welfare of over 1,300 members. Our Settlement Lands include 7,000+ acres in two counties. Through self-determination we have made positive impacts for the people with accomplishments that include the Tribal Court, established in 2005 and Tribal Law Enforcement, established in 2006. Currently, we are undergoing revisions to our Tribe's Constitution, which was originally created in 1934 as a part of the Indian Reorganization Act. Thanks to our Tribe's gaming facility, we are able to continually improve and increase on our people's quality of life.

The Only All-Indian Four-Day Cultural Festival In The State Of Iowa!

2009 95th Annual  
**Meskwaki Indian**  
**POW WOW**  
**August 6-7-8-9**

HELD ON THE  
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- ARTISAN DEMONSTRATIONS • MESKWAKI VILLAGE REPLICA
- FOOD VENDORS • FIELD DAY EVENTS & CONTESTS

PUBLIC WELCOME!

FOR INFORMATION CONTACT:

MESKWAKI ANNUAL POW WOW ASSOCIATION, PH: 641/484/4678 OR VISIT: [WWW.MESKWAKI.ORG](http://WWW.MESKWAKI.ORG)





# Renewable Energy?

- How to become involved
- Places to go
- Contacts to make
- Many free seminars
- Low-cost Expositions (\$10 – cheap!)
- Objectives – affordable, clean energy
- Make a plan – wind resource assessment
- Apply for a grant

Smart Choice. Clean Future. Better Iowa

community



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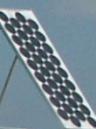


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Iowa Energy Center - Energy Funding, Efficiency and Renewables - Windows Internet Explorer

http://www.energy.iastate.edu/Renewable/wind/assessment/calculate.aspx?county=Tama

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Wind Calculator Solar Calculator Contact

**IOWA ENERGY CENTER**

**Iowa Energy Center** BECON ERS NBCIP DDC AERLP

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## Wind Assessment and Calculator

Biomass

Wind

Solar

Hydro

Related

Incentives

Renewable Energy

### Wind Turbine Output Calculator

Currently Viewing Cities For Tama County

Select Town: Mesquakie Indian Settlement

Select Period: All  
Annual  
January  
February

Use best in 8 km: (Annual Only)

Select Turbine Size: All

Select Turbine Type: AAER Wind Energy A-1500, 70m; 1500 kW

Select Units of Measurement: Metric:  English:

Enter Tower Height: 165  
(meters/feet)  
(Enter in meters if "Metric" was selected.  
Enter in feet if "English" was selected)

Enter Number of Turbines: 1

Enter Loss Factor (%): 12

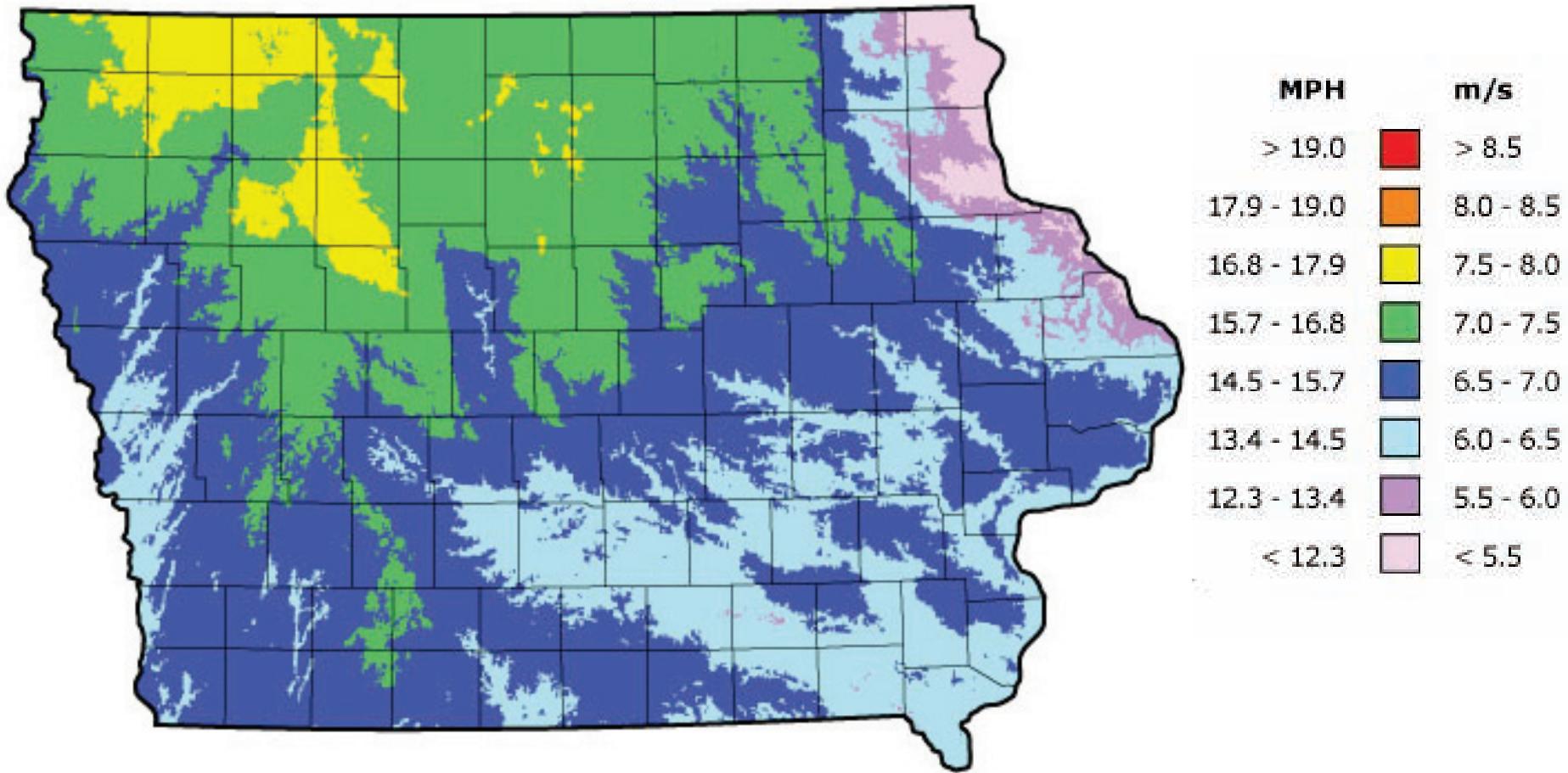
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**Calculate**

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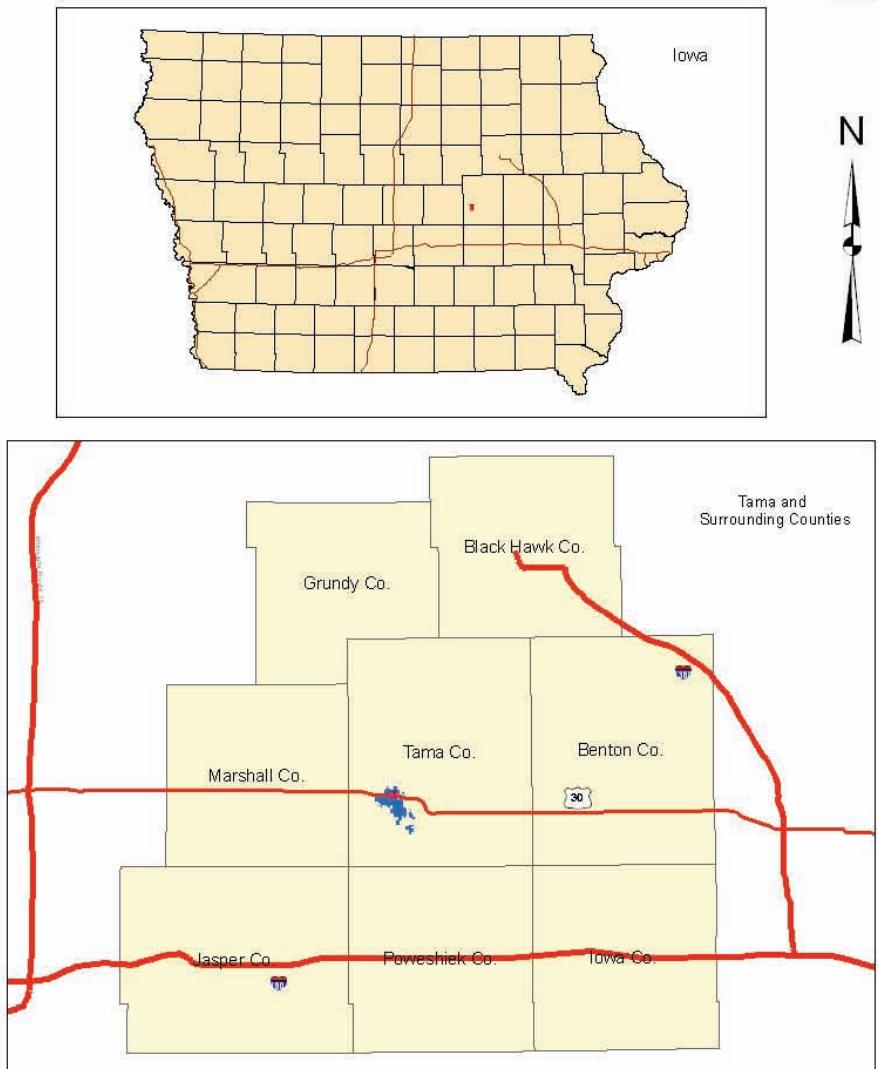
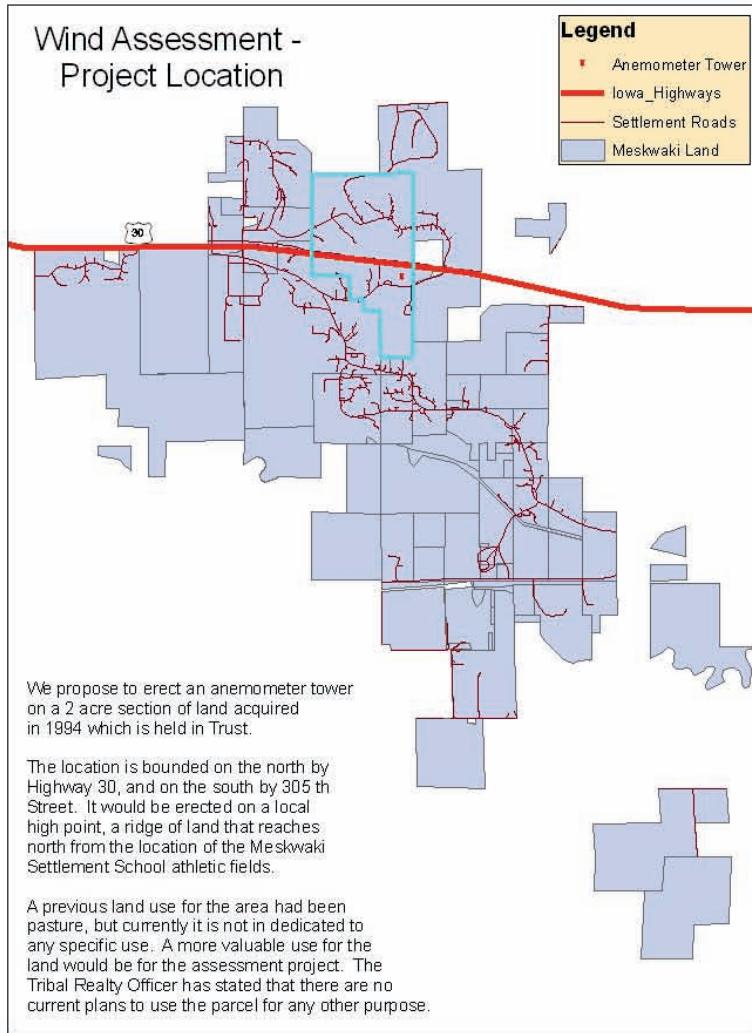
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# Locate free resources – Wind Maps



# Project location

## Meskwaki Settlement - Land Proposed For Wind Assessment



# Great Plains Wind Energy Summit

Rapid City, SD



## Federal Laws & Policies Applicable to Windpower

- Native American Policy of USFWS
- Secretarial Order 3206
- Endangered Species Act
- Migratory Bird Treaty Act
- Bald and Golden Eagle Protection Act
- National Wildlife Refuge System Improvement Act
- National Environmental Policy Act
- Clean Water Act





# Electrical Engineer at Dept of Interior?





U.S. Department of Energy

**Energy Efficiency and Renewable Energy**Bringing you a prosperous future where energy is  
clean, abundant, reliable, and affordable**Tribal Energy Program**[About the Program](#) [Information Resources](#) [Financial Opportunities](#) [Deployment](#) [Home](#)**About the Program****Organization**[Printable Version](#)**Program Implementation**

This section provides background information about the Tribal Energy Program. Learn what the program does, how it is organized, and how program activities are implemented. This section also includes contact information for Tribal Energy Program staff.

**Contacts**

The Tribal Energy Program, under the Department of Energy's (DOE's) [Office of Energy Efficiency and Renewable Energy](#), promotes tribal energy sufficiency, economic development, and employment through the use of renewable energy and energy efficiency technologies.

The program provides financial and technical assistance to tribes for the evaluation and development of renewable energy resources on tribal lands. As building knowledge and skills is essential to developing, implementing and sustaining energy efficiency and renewable energy projects, the program also offers education and training opportunities.

Join our e-mail list to receive information about the program, funding opportunities, workshops and training, and other tribal-energy-related information. To join, send your contact information to [Lizana Pierce](#).

**Mission**

Offering financial and technical assistance to tribes through *government-to-government* partnerships that:

1. Empower tribal leaders to make informed decisions about energy choices
2. Bring renewable energy and energy efficiency options to Indian Country
3. Enhance human capacity through education and training
4. Improve local tribal economies and the environment
5. Make a difference in the quality of life of Native Americans.

**SAC & FOX TRIBE OF THE MISSISSIPPI IN IOWA**

**MESKWAKI RENEWAL ENERGY ASSESSMENT NARRATIVE**

**MESKWAKI SETTLEMENT, TAMA, IA 52339**



**Assessing the Feasibility of Renewable Energy Development and Energy Efficiency  
Deployment on Tribal Lands  
Funding Opportunity Number: DE-PS36-09GO99024**

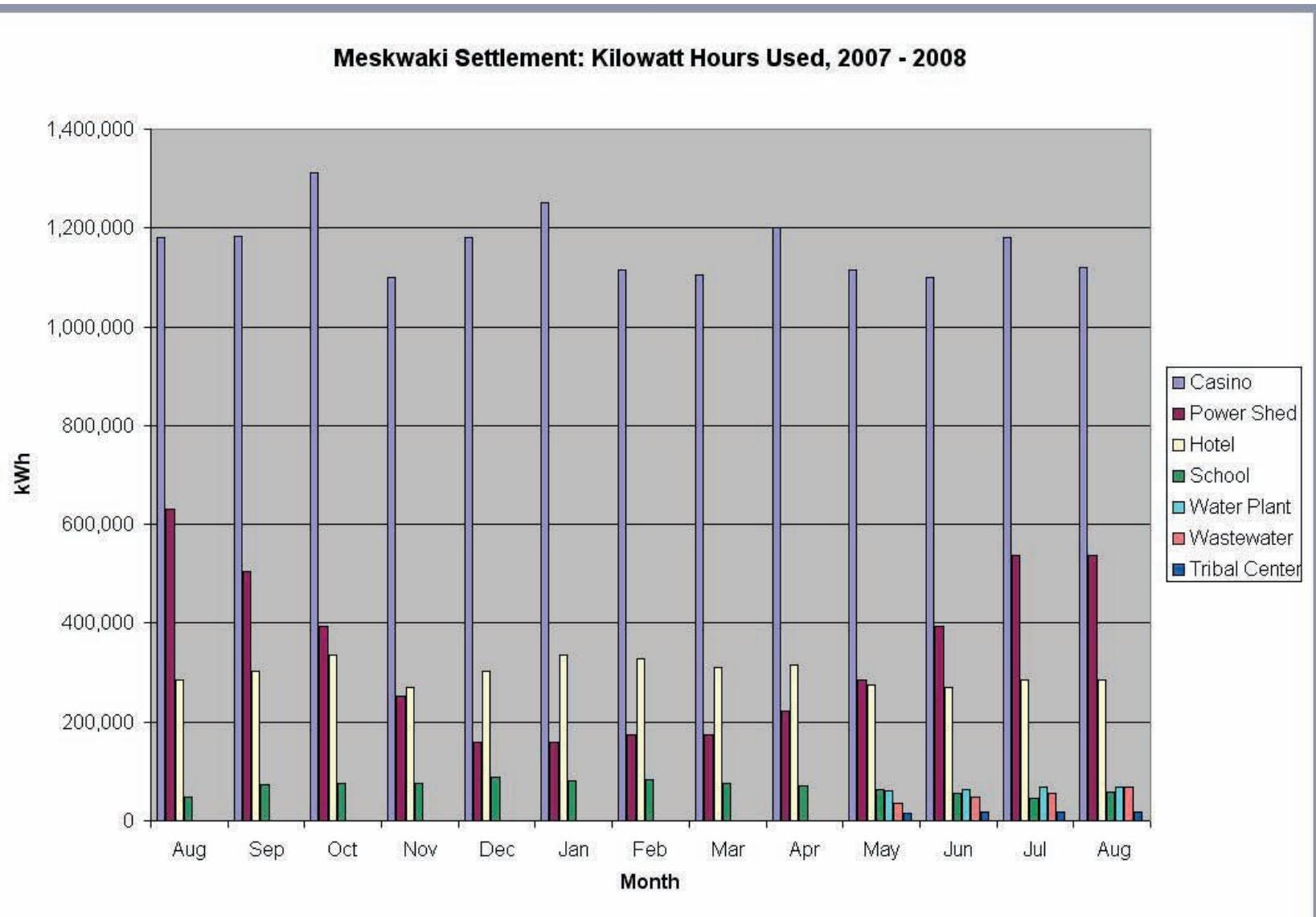
**Topic Area: Renewable Energy Feasibility Studies**

**Contact Information:**

**Technical POC**

**Thomas Gearing (Technical Principal Investigator)  
349 Meskwaki Road  
Tama, IA 52339**

# Assess Energy Needs



# **Meskwaki Nation – Sac & Fox Tribe of the Mississippi in Iowa**

## **Request for Qualifications & Request for Proposals**

### **Wind Resource Assessment**

#### ***1. Introduction***

##### ***1.1 Document Purpose***

This document is an outline defining the needs of the Meskwaki Nation's initiative in assessing the wind energy resource on Tribal Land with no reference to any specific vendor. The Meskwaki Nation is submitting this Request for Qualifications (RFQ) and Request for Proposal (RFP) to vendors/consultants. The responses to these requests will be used to select one or more candidate vendors for further evaluation.

##### ***1.2 Document Audience***

The audience includes Tribal Council, Meskwaki Settlement School, Executive Management, Information Technology, Finance, and all identified stakeholders of the Meskwaki Nation as well as selected vendors.

#### ***2. Scope and Objectives***

##### ***2.1 Scope of Work***

The scope of work to be performed under this proposal shall include the securing of one anemometer tower with complete instrumentation at 3 levels and data logging and transmission. Contractor will provide for delivery of all equipment to the Tribe's address in Tama, Iowa. Upon arrival of all necessary equipment, contractor will perform assembly and commissioning of the anemometer tower and data transmission equipment. During the one-year term of data collection, contractor shall provide for the receipt and storage of data at the contractor's location. At year's end, the contractor shall provide a meteorological analysis of the year's data, producing a set of standard meteorological reports suitable for input to technical analysis for specific wind turbine models (technical analysis not to be provided under this proposal.).

Please provide the methodology of your project implementation: How quickly can you deliver and install your product? What are the industry ratings of the components you have chosen? If you are aware of similar options for a particular subsystem, you may present both options with your assessment of the relative cost versus quality tradeoffs. Do you have resource maps and/or models that could suggest a more optimal placement of the tower? What type of software is used to track and process the collected information? Are intermediate results readily available if requested?



## Meskwaki Menu

### Meskwaki Nation Special Notices

#### Public - Request for Proposals



## Wind Energy Project - Department of Energy

We have just received good news that the Department of Energy has awarded us a grant to study our wind resource on the Meskwaki Settlement. The amount approved will fund complete studies of all aspects:

- 1). Technical characteristics of the wind, by installing a meteorological tower
- 2). Environmental aspects, to protect any plants, animals, birds, etc
- 3). Cultural and archaeological concerns;
- 4). Geological aspects, as regards suitability for building the future wind turbine tower
- 5). Educational benefits - how we can use our project to benefit our school programs

This is a complex project, but with the accumulated knowledge and experience available here, we can put it together. The end result will be everything we need to completely qualify for building our first wind turbine to bring clean, renewable, affordable electric power to the Meskwaki Settlement.

## Next Steps

1. Distribute RFP to interested vendors
2. Post RFP for interested vendors
3. Review RFP received from vendors



For more information contact Tom Gearing at  
641-484-4678 ext 2246



If you are an interested vendor and would like to review the [RFP](#), click [here](#).

# Post your RFP wherever you can!

## **RE: Sac and Fox Tribe RFP for wind resource assessment program**

Heffernan, Patrick J (RBI-US) [patrick.heffernan@reedbusiness.com]

You replied on 9/21/2009 9:52 AM.

To: Tom Gearing

Tom, please be advised that we have two paths for sending information to our subscribers: the weekly printed bulletins and the website. While we can attach the documents you sent to the project listing on the website, space limitations prevent us from doing the same in the printed bulletins. Most of our subscribers are Web-savvy by now but there are a few holdouts, so you may get a call or two asking you to send them the documents. Just wanted to give you a heads-up. Good luck!

---

**From:** Tom Gearing [mailto:[gis.it@meskwaki.org](mailto:gis.it@meskwaki.org)]

**Sent:** Wednesday, August 26, 2009 1:53 PM

**To:** Heffernan, Patrick J (RBI-US)

**Subject:** Sac and Fox Tribe RFP for wind resource assessment program

Hi Pat,

We have finished the RFP. It comes with a confidentiality statement and a locator map as well, so 3 attachments. Let me know what I need to do next.

Thanks,

Tom Gearing

Principal Investigator, Wind Resource Assessment Project

Sac and Fox Tribe of the Mississippi in Iowa (Meskwaki Nation)

349 Meskwaki Rd

Tama, IA 52339

641-484-4678

North American Windpower: Content / Category / RFP - Windows Internet Explorer

http://www.nawindpower.com/e107\_plugins/content/content.php?cat.611

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**Content Category: RFP**

**Avista Issues RFP**  
on 28 Sep 2009 by NAW Staff    
Avista, a Spokane, Wash.-based utility, has issued a request for proposals (RFP) based on resource acquisition goals identified in its 2009 Electric Integrated Resource Plan [read more]

**Meskwaki Nation RFQ, RFP**  
on 09 Sep 2009 by NAW Staff    
The Meskwaki Nation of Iowa has issued a request for qualifications (RFQ) and request for proposals (RFP) to vendors/consultants for wind resource assessment. The [read more]

**Division Of Capital Asset Management Issues RFP For Correctional Institution Wind Project**  
on 01 Sep 2009 by NAW Staff    
Working in collaboration with the Department of Energy Resources, the Division of Capital Asset Management (DCAM) has issued requests for proposals (RFPs) to install two [read more]

# Help is available!

## Division of Energy & Mineral Development

### About Our Company

The Division of Energy and Mineral Development (DEMD), in the Assistant Secretary ? Indian Affairs office assists Tribes in the exploration and development of Tribal energy (both renewable and non-renewable) and mineral resources. This activity includes the collection of exploratory and identification data on such resources, the funding and carrying out of feasibility studies, market analyses and other resource development initiatives.

### Product Category:

- Other

### Contact Information

Winter Jojola-Talburt

Division of Energy & Mineral Development

12136 W. Bayaud Ave, Suite 300

Lakewood, CO 80228

United States

Phone Number

(303) 969-5270

## Microsoft Excel - MailingList.xls

MailingList						
	A	B	C	D	E	F
1	Company Name	Address 1	City	State	Zip	Phone
2	AAT inc.	3 rue des Cerisiers	Gaspe, Quebec, Canada	G4X 2M1	877-360-1228	
3	ABS Consulting, Inc	4 Research Place, Suite 200A	Rockville	MD	20850	301-990-7181x204
4	Acterra Group					800-289-7371
5	Advanced Development Services	21700 Oxnard St, Suite 1840	Woodland Hills	CA	91367	800-590-8839
6	Anemometry Specialists	102 Main St	Alta	IA	51002	866-224-1631
7	Applied Science Associates, Inc	55 Village Square Dr	South Kingston	RI	2879	401-789-6224
8	APRS World					
9	AWS Truwind	463 New Karner Rd	Albany	NY	122050	518-213-0044
10	CPP Wind	1415 Blue Spruce Dr	Fort Collins	CO	80524	970-221-3371
11	Denali Energy, Sovereign Wind	13954 Cypress Dr	Baxter	MN	56425	877-557-1031
12	EAPC	222 3rd St NW	Bemidji	MN	56601	218-751-0151
13	Energy & Environmental Research Center	15 North 23rd St, Stop 9018	Grand Forks	ND	58203	701-777-5000
14	FreedomWorks, LLC	525 Wren Lane	Harper's Ferry	WV	25425	202-369-6324
15	GPCo USA Inc	866 S Diestel Rd	Salt Lake City	UT	84105	801-649-3672
16	Jerry Henscheid	1018 6th St	Harlan	IA	51537	
17	Juhl Wind, Inc	996 190th Ave	Woodstock	MN	56186	877-584-5946
18	KB Energy, LLC	1704 State Hwy 13	Arlington	WY	82083	307-378-3480
19	Mariah Resources, Inc	310 N Cluff Ave, Bldg C	Lodi	CA	95241	800-619-0845
20	Meteorological Solutions Inc	2257 S 1100th E, Suite 203	Salt Lake City	UT	84106	801-474-3826
21	National Wind Assessments	3033 Excelsior Blvd, Suite 525	Minneapolis	MN	55416	612-746-6608
22	Native Green	286 State Road 65	River Falls	WI	54022	
23	Pioneer WindWorks	222 N Elm St	LaFarge	WI	54639	608-333-7041
24	Seventh Generation Energy Systems	100 S Baldwin St, Suite 304	Madison	WI	53703	877-229-9201
25	V-Bar, LLC attn Richard Simon	400 E Capitol Park Ave, Suite 404	Salt Lake City	UT	84103	
26	Wind Utility Consulting, PC	412 S Locust St	Jefferson	IA	50129	515-386-3405
27	3Tier	2001 Sixth Ave, Suite 2100	Seattle	WA	98121	206-325-1573
28	Wagoner Wind, LLC	3205 Poppleton Ave, Sutie 12	Omaha	NE	68105	402-680-1110
29	WINData, Inc	104 2nd St S, Suite 202	Great Falls	MT	59401	406-727-1014
30	WindLogics, Inc	1021 Bandana Blvd E, Suite 111	St Paul	MN	55108	651-556-4200
31	Wind Prospect	4550 Cherry Creek S Dr, Suite 913	Denver	CO	80246	720-542-9922
32	Wind Rivers, LLC	1050 West Riverview Dr	Idaho Falls	ID	83401	208-529-9463

# RFP Results

- 15 companies bid on our wind resource assessment project.
- 12 of the bids were fully qualified and within our budget expectations
- The 3 best of the companies have been selected for a chance to present their proposals in person



# Anemometry Specialists

*Installed With Pride Worldwide™*

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## Wind Energy Site Assessment

Anemometry Specialists wind energy site assessment services can help save you money. The selection of a wind turbine site is crucial to the profitability of your wind project. The availability of wind, transmission lines, value of energy to be produced, cost of land acquisition, land use considerations, and environmental impact of construction and operations can have a major impact on your potential profits.

Securing the right site and fully exploiting its wind resource is critical to the long-term profitability of your project. If you secure an excellent site with sufficient grid capacity and fully exploit its wind resource, you will guarantee that your business will profit from the power you generate.

Typical site location services include:

- Site Visits
- Evaluation of Topography
- Proximity to Power Lines
- Transmission Grid Studies
- Land Use and Ownership
- Compilation of Existing Wind Data
- Environmental Studies and Restrictions
- Permitting Requirements



## Our Services

Anemometry Specialists is a full service wind energy assessment company. Use the links below to find out more about our services and expertise.

[Wind Assessment](#)

[Wind Energy Site Assessment](#)

[Met Tower Installation](#)

[Sodar Installation](#)

[Wind Data Collection](#)

[Wind Data Analysis](#)

[Project Management & Consulting](#)

[Tower Climb Installation](#)

[Maintenance & Repair](#)

## Wind Power 2009

We would like to thank everyone that visited our booth during the WindPower 2009 Conference in Chicago. More than 23,000 people attended the show which



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Wind Resource Monitoring

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Feasibility Studies  
Tribal Initiatives

EDUCATION

PUBLIC POLICY

RESOURCES

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## SITE ASSESSMENTS .

A renewable energy site assessment is the best and lowest risk option to find out if renewable energy is right for you. A certified wind or solar site assessor will meet with you at your home or business to discuss your objectives, evaluate your resource and identify several system options that would be best for your site. Within a few weeks, you'll receive a written report outlining:

- Current energy use and costs
- Wind or solar resource potential
- System design goals
- Wind and/or solar system options including performance and cost estimates
- Installation barriers
- Siting, zoning and permitting issues
- Utility interconnection issues
- Next steps

A Seventh Generation Energy site assessment will provide you with a comprehensive road map from which to evaluate the opportunities and challenges of a wind system at your site. Most importantly, we will quickly identify any fatal flaws that would stand in the way of your goals.

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**WHAT WE DO**

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Building Services

■ Energy Infrastructure

Transportation Infrastructure

Electrical Power

Commerical/Industrial

Integrated Building Systems

***Energy Infrastructure***

*As global energy demand rises, resources must be expanded. WPCS supports the development and delivery of energy solutions.*

World economies are growing, standards of living are improving and energy supplies are dwindling. It's a scenario that has accelerated the search for new energy sources and better ways of delivery existing supplies. WPCS is contributing in both of these critical areas. WPCS designs and deploys alternative energy solutions in wind and solar power. Through a unique combination of scientific, geologic, engineering and construction expertise, we offer solutions in site design, solar installation, meteorological towers and wind turbine installation. In addition, we support energy companies as they maximize the efficiency of their energy supply infrastructure, by providing a range of services from pipeline trenching to the deployment of wireless solutions.

[contact solutions specialist](#)

# Current Status:

- Waiting to hear the words: “The check is in the mail”
- Assembling a Final Assessment Committee to pick the contractor to install our anemometer tower.
- Continuing to search for our “Tribal Champion”

# Thank You!

- Questions?