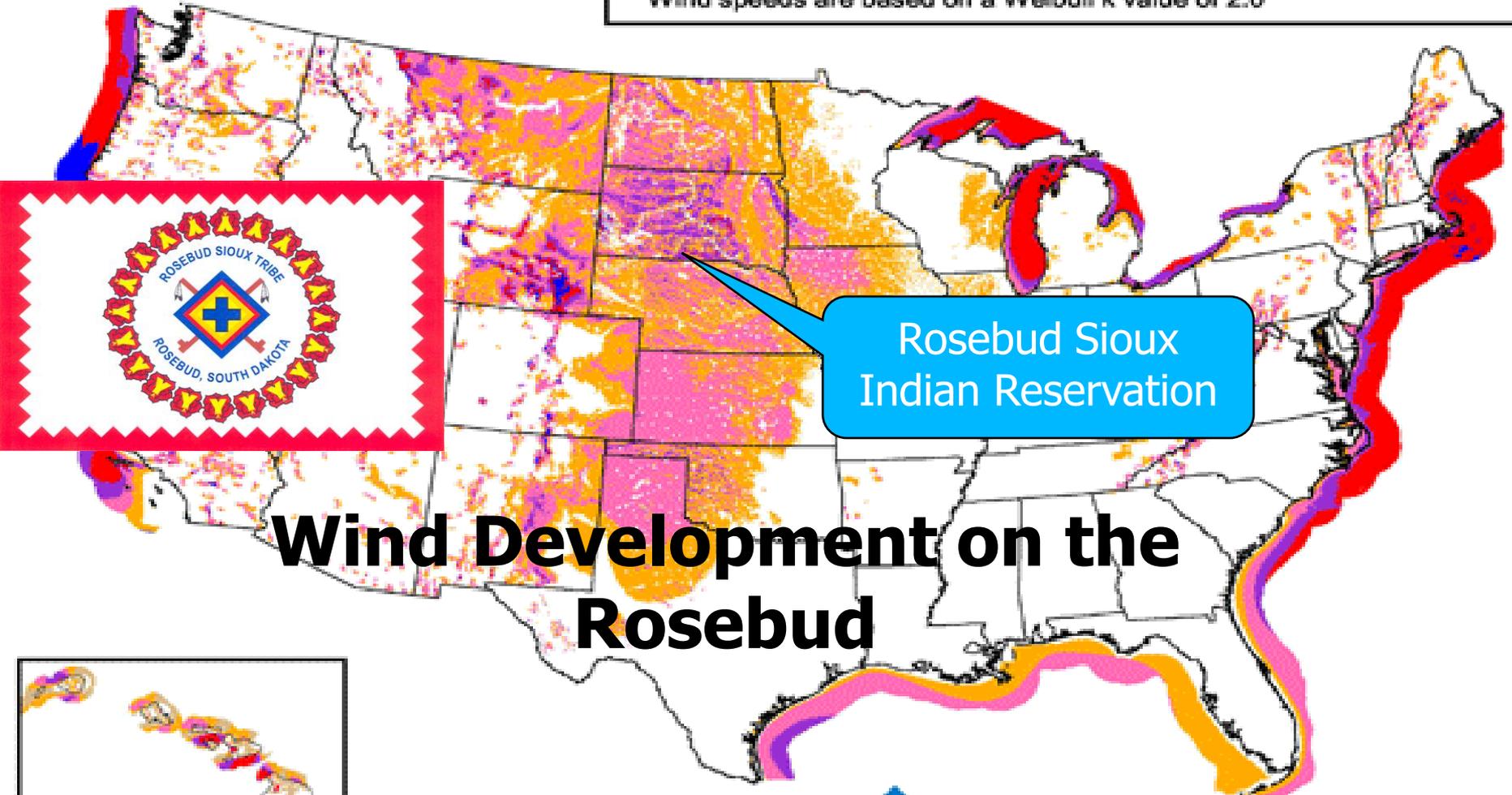
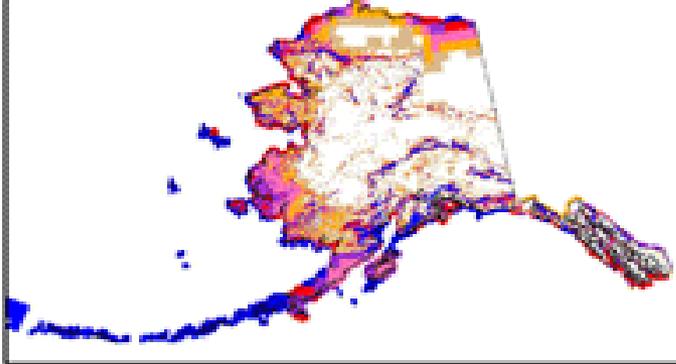


Wind Power Classification

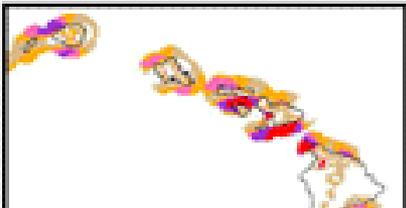
Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m^2	Wind Speed ^a at 50 m m/s	Wind Speed ^a at 50 m mph
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7
4	Good	400 - 500	7.0 - 7.5	15.7 - 16.8
5	Excellent	500 - 600	7.5 - 8.0	16.8 - 17.9
6	Outstanding	600 - 800	8.0 - 8.8	17.9 - 19.7
7	Superb	800 - 1600	8.8 - 11.1	19.7 - 24.8

^aWind speeds are based on a Weibull k value of 2.0

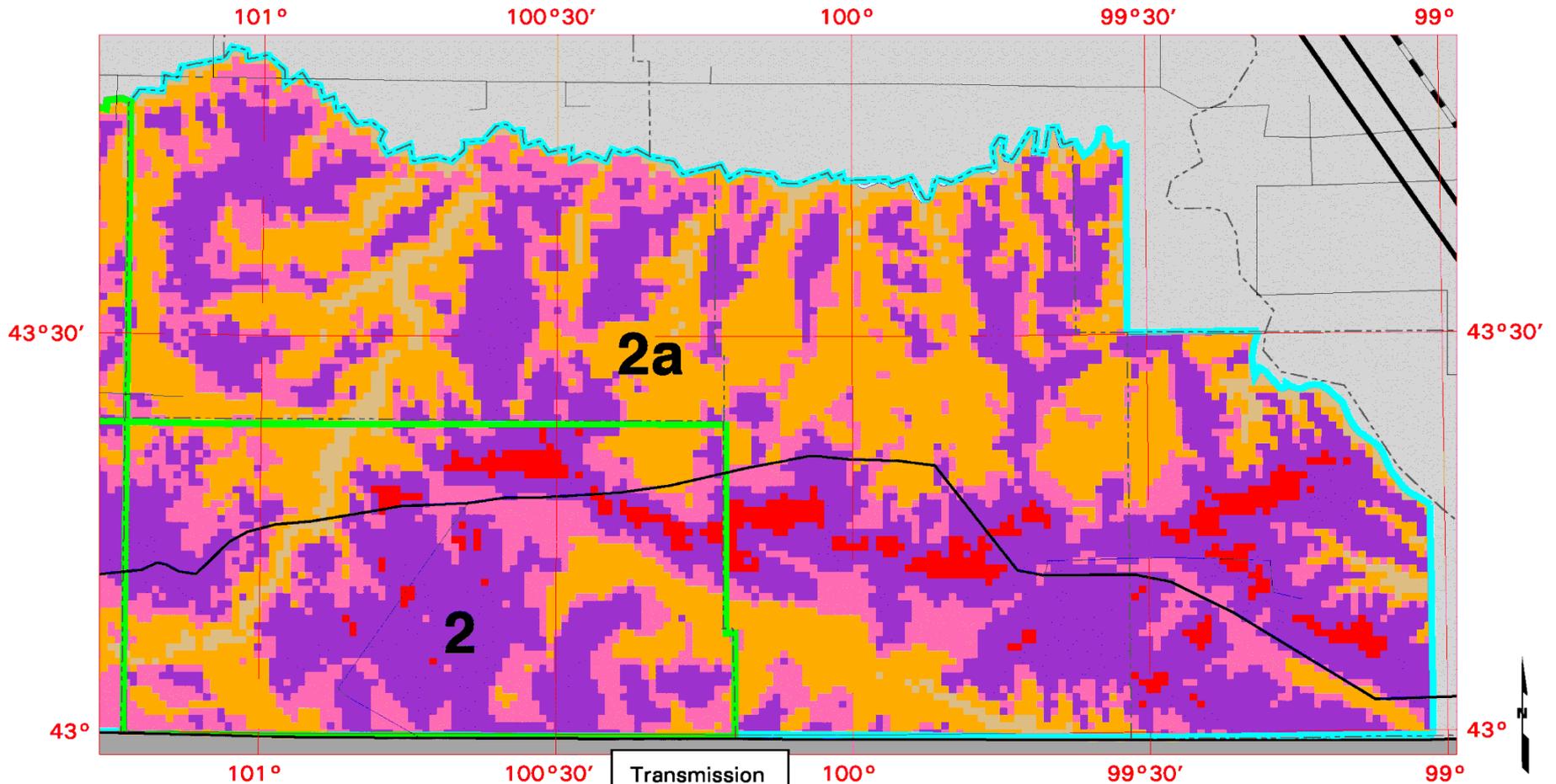


Rosebud Sioux
Indian Reservation

Wind Development on the Rosebud



South Dakota - Rosebud Reservation Wind Resource Map and Capacity



Wind Power Classification

Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m ²	Wind Speed ^a at 50 m m/s	Wind Speed ^a at 50 m mph
2	Marginal	200 - 300	5.6 - 6.4	12.5 - 14.3
3	Fair	300 - 400	6.4 - 7.0	14.3 - 15.7
4	Good	400 - 500	7.0 - 7.5	15.7 - 16.8
5	Excellent	500 - 600	7.5 - 8.0	16.8 - 17.9
6	Outstanding	600 - 800	8.0 - 8.8	17.9 - 19.7
7	Superb	800 - 1600	8.8 - 11.1	19.7 - 24.8

^a Wind speeds are based on a Weibull k value of 2.0

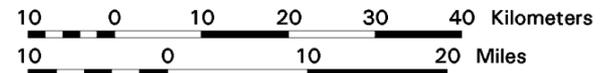
Transmission Line Voltage

- 69 Kilovolts
- 115 Kilovolts
- 230 Kilovolts
- 345 Kilovolts

- Federal Facility
- City or Town

Indian Reservations

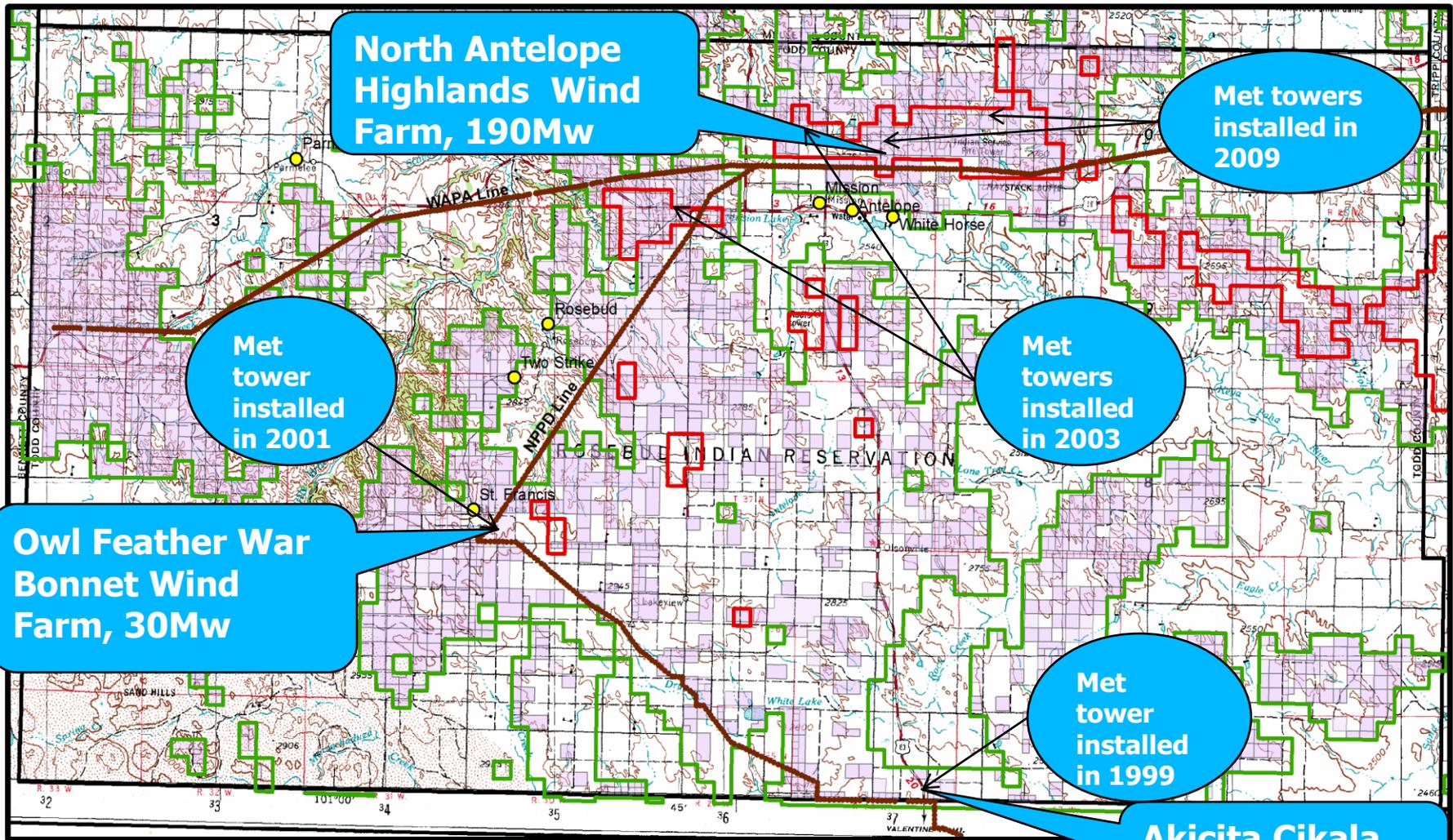
Indian Reservations	Wind Electric Potential (MW) Class 4 - 6	Wind Electric Potential (MW) Class 2 - 6
Rosebud	17,400 - 34,800	25,750 - 51,500
-Original Boundary	30,280 - 60,560	48,975 - 97,950



U.S. Department of Energy
National Renewable Energy Laboratory



20-APR-2000 5.1.1



**North Antelope
Highlands Wind
Farm, 190Mw**

**Met towers
installed in
2009**

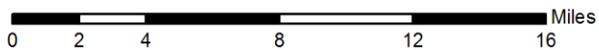
**Met
tower
installed
in 2001**

**Met
towers
installed
in 2003**

**Owl Feather War
Bonnet Wind
Farm, 30Mw**

**Met
tower
installed
in 1999**

**Akicita Cikala
750 Kw turbine**



- Wind Potential Class 6
- Wind Potential Class 5
- Tribal Trust Lands within Wind Class 5 and 6
- County Line
- WAPA and NPPD Poles

**Tribal Trust Lands within Wind Class 5 and 6 in Todd County
(Includes Tribal land, Allotment Land, and Trust Deed Land)**

Total Trust Land within Wind Class 5 in Todd County = 232,094 Acres

Total Trust Acres within Wind Class 6 in Todd County = 35,116

**Martin, SD Topographic Map
Scale 1:250,000**

Akicita Cikala Turbine

Neg Micon 750kw

Commissioned March 2003



Owl Feather War Bonnet Wind Farm

2003 Dept. of Energy Grant

DOE Funding \$448,551.00

DISGEN Cost share/in-kind \$78,750.00

RST/TUC Cost share/in-kind \$27,272.00



Participants in Development

RST Resource Development Office, Ken Haukaas, Coordinator

RST Tribal Utilities Commission, Tony Rogers, Director

RST Natural Resource Office, Stephanie Middlebrooks, Wildlife Biologist

Distribute Generation Inc., Dale Osborn, President, Belvin Pete, Project Manager

Sinte Gleska University, Dr. Bill Akard, Archaeologist

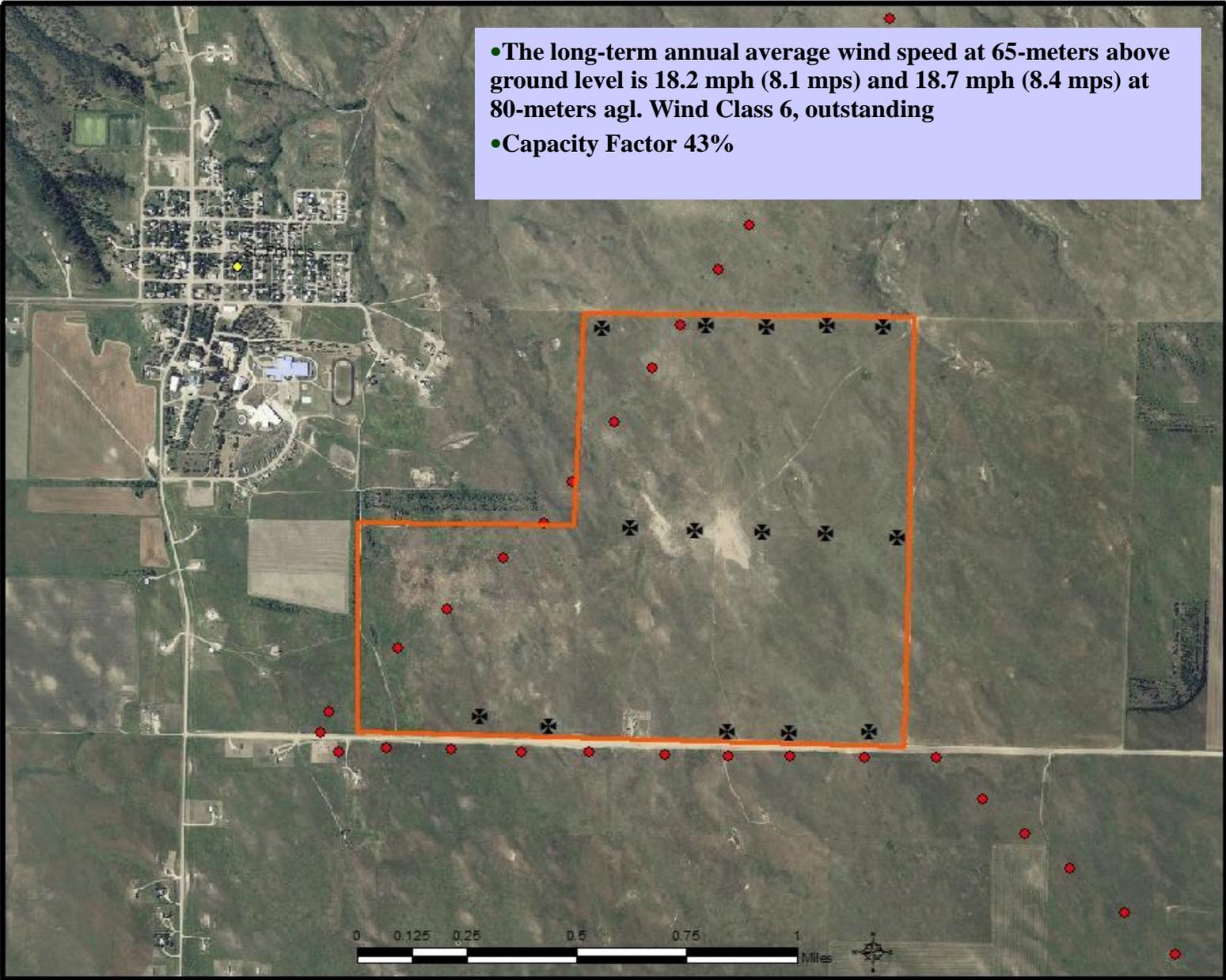
U.S. Fish and Wildlife Service, Consulting Agency

Bureau of Indian Affairs, Lead Agency, Dianne-Mannklager, Lead Wildlife Biologist & Dr. Carson Murdy, Lead Archaeologist

Western EcoSystem Technology Inc. (WEST) Rhett Good, Environmental Consultant

<http://apps1.eere.energy.gov/tribalenergy/pdfs/rosebud03final.pdf>

- The long-term annual average wind speed at 65-meters above ground level is 18.2 mph (8.1 mps) and 18.7 mph (8.4 mps) at 80-meters agl. Wind Class 6, outstanding
- Capacity Factor 43%

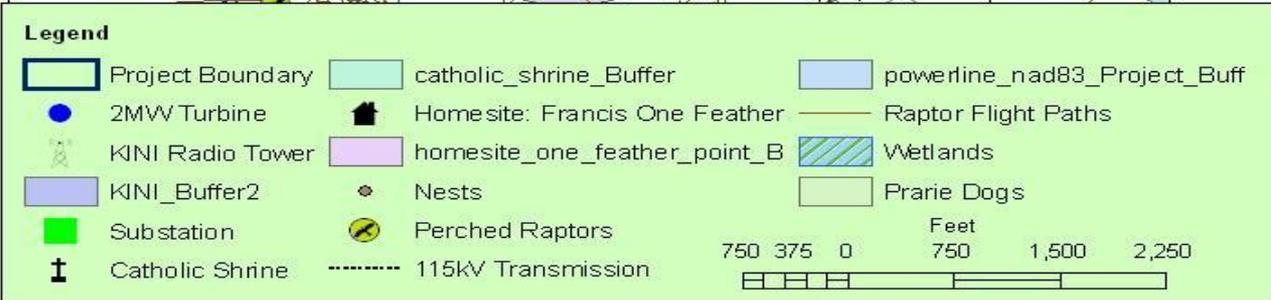
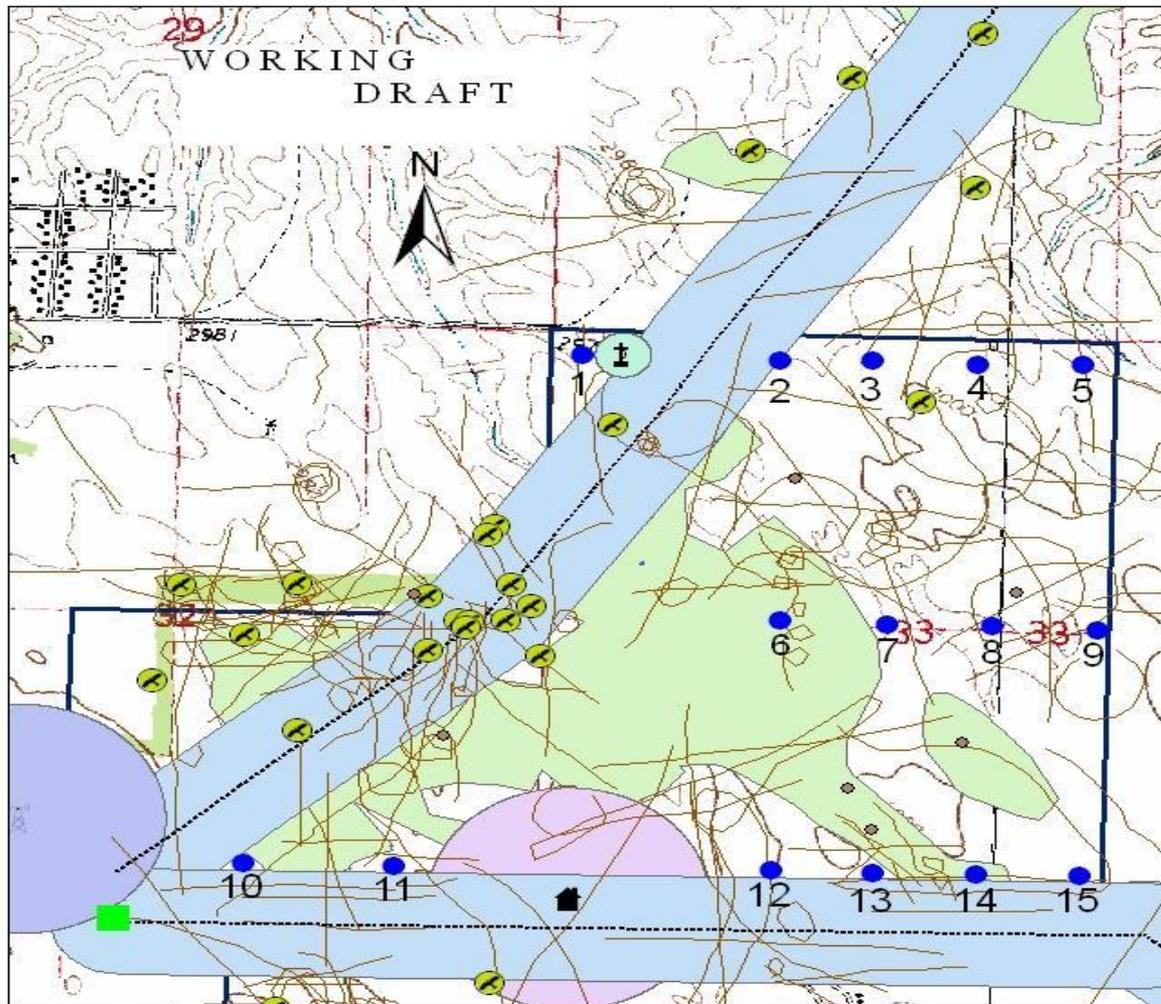


Wind Farm Site, looking West

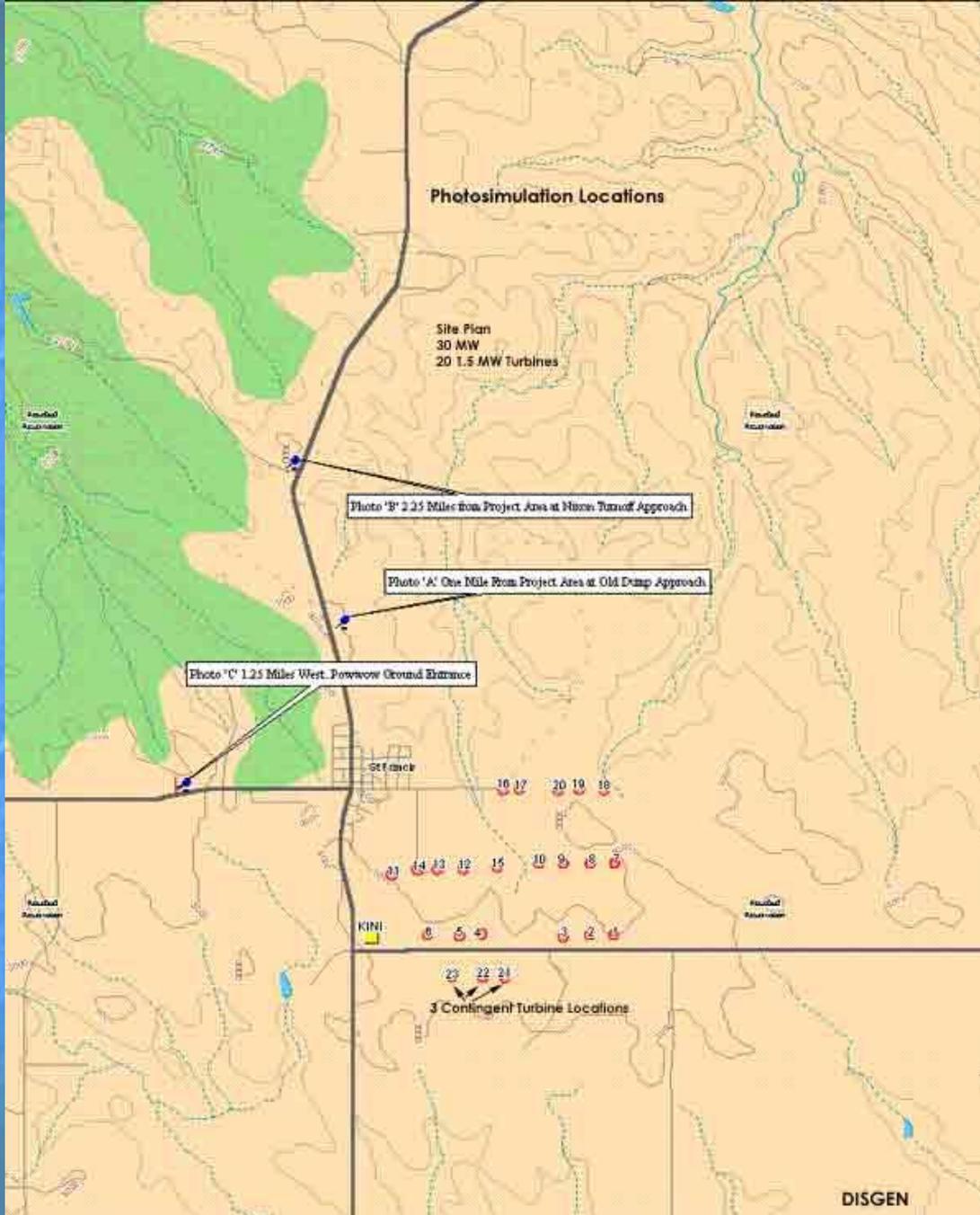


Wind Farm Site, looking East





3 photo simulation locations



Topo USA 2.0 Copyright © 1999 DeLorme Yarmouth, ME 04096 Scale: 1 : 50,000 Detail: 12-0



Photo from 1 Mile North of Project Area and St. Francis, at Old Dump Approach; Facing South by Southeast



Photo from 1.25 Miles West of Project Area at Powwow Grounds Entrance Approach, Facing East by Southeast. St. Francis in Foreground.



Ecological Baseline study

Western EcoSystems Technology Inc.

1. A detailed avian study

Complete

2. Mapping of prairie dog towns

Complete

3. Grasslands bird survey

Complete

4. American Burying Beetle survey

Complete

5. Greater Prairie Chicken Lek Monitoring

Complete

6. Raptor nest Search

Complete

7. General wildlife observations

Complete

8. Bat survey

Complete

9. Flora survey

Complete



A Detailed Cultural Assessment

- Class I. File and literature search
(NEPA Requirement)

Requires a review of any and all records on the site through research of state and local records concerning investigations gathered in the past.

Conducted and completed by Dr. Carson Murdy BIA Archaeologist.

Cultural Assessment Cont:

- Class III, Site Review

- (NEPA Requirement)**

- A 100% intensive site surface review, which consists of walking over the whole 680 acres of area foot by foot.

- 140 acres completed by Dr. Carson Murdy BIA Arch., the other 540 acres, has been completed by Dr. Bill Akard along with staff and students of Sinte Gleska University 100% Complete*

Cultural Assessment Cont: Ethnographic Study

- Interview elderly familiar with the area
- Gather oral history relevant on the site
- Insure to all that no culturally significant area was disturbed
- Conducted by Lakota speakers with cultural resource management degrees and conducted in a confidential manner
- Not required by NEPA, but was felt it was quite appropriate and necessary to insure success

Ethnographic Findings & Recommendations

- Native language use area by school children
- Recommend 100% intensive survey of all 680 acres
- Identify, map and classify all medicinal plants and replant/reseed as much as possible those plants affected during construction
- Hire a qualified Cultural Resource Management specialist during all excavation work

Systems Impact and Interconnection Study

- Examines the local system to determine if the proposed project can be physically interconnected technically and if the local infrastructure can absorb the energy and capacity being proposed.

Develop the substation requirements for upgrading of the substation.

Conducted by Nebraska Public Power District, green light has been given to continue on process for interconnection, study now needs to know where power will be purchased. Power Purchase Agreement.



Time lines in Development for the Owl Feather War Bonnet Wind Farm

- Initiated all preconstruction activities in Fall of 2003
- Cultural Assessment, Class I and III survey completed by 2004
- Systems Impact Study was completed by fall of 2004
- Environmental/Ecological Assessment completed by 2005
- RST passes resolution supporting Grant of Use and Lease agreement with DISGEN based on a % of gross revenue stream in Nov. 2006, RST to act as a passive landowner receiving payments.
- Grant of Use and Lease agreement sent to BIA DEMD/IEED in Dec. '06, receives BIA approval in June 2008, 18 months later.
- BIA issues a Findings Of No Significant Impact based on an Environmental Assessment in Feb. '08
- RST Chairman signs Grant of Use and Lease Agreement Summer '08

Rosebud Sioux Tribe and Citizens Wind

RFP was issued in Fall of 2007, 3 firms responded and RST chose Citizens Wind and entered into an MOA in winter of 2008 for a 5 year period of development.

Basic Agreement: Citizens has exclusive wind rights over all Tribal lands for a period of 2.5 years, at end of the 2.5 year, they must identify land and start paying a lease agreement securing the lands. In the remaining 2.5 years they must have in the ground at least one operating wind farm. All data gathered will be shared.

The RST and Citizens Wind are considered partners in the development phase, the RST has a 33% interest with Citizens having a 67% interest as they bring the technology and money to the table, and we bring our land and wind to the projects.

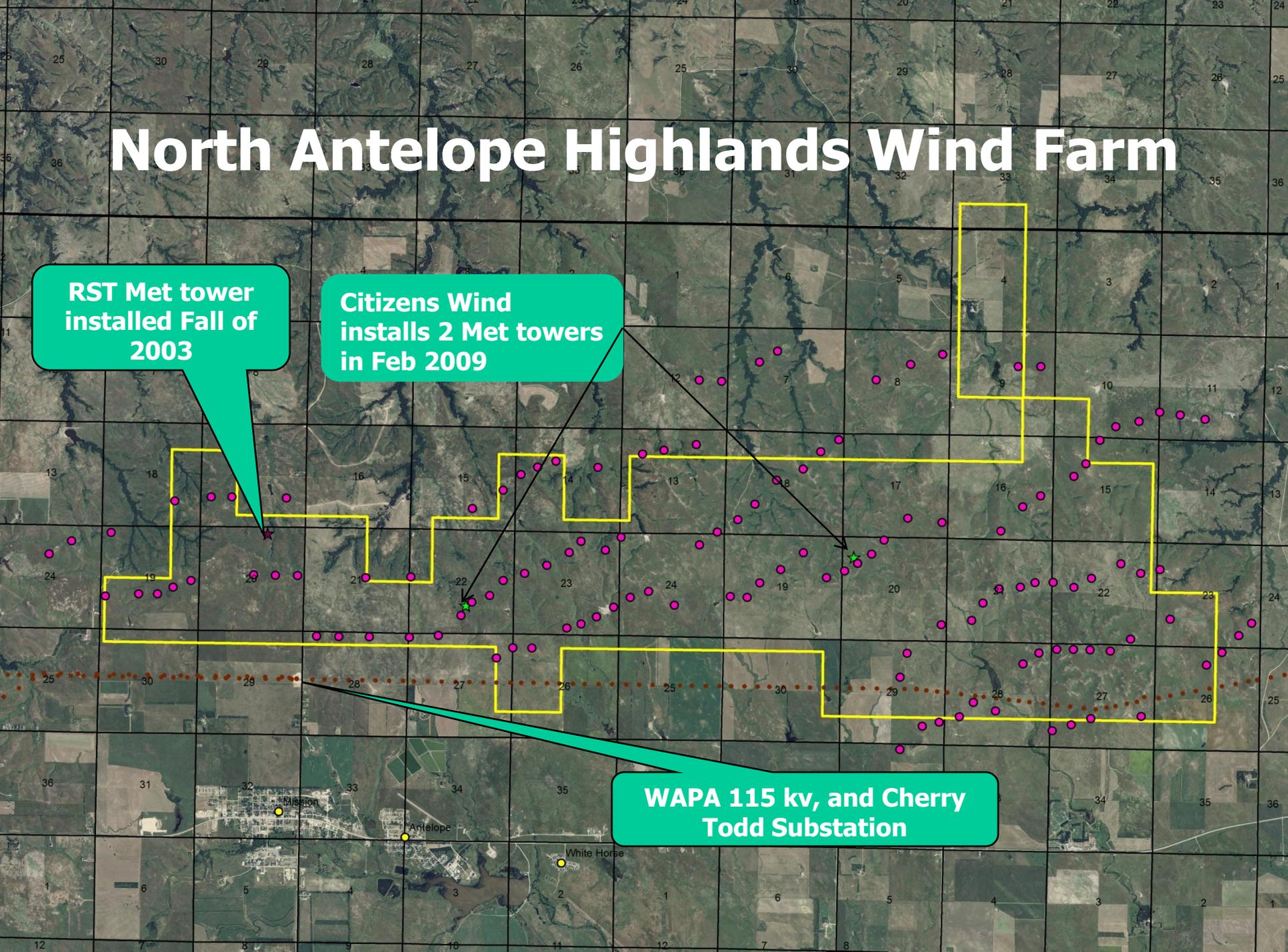
We intend to charge \$100,000.00 per Mw in development fees to the future owner of the wind farm/s. For every Mw developed RST will receive \$33,000 per Mw immediately after financial closing.

North Antelope Highlands Wind Farm

RST Met tower installed Fall of 2003

Citizens Wind installs 2 Met towers in Feb 2009

WAPA 115 kv, and Cherry Todd Substation



North Antelope Highlands Project timelines

Jan '09, a preliminary Systems Impact Study identified approx. 190Mw of capacity remained on WAPA 115kv that runs through the reservation that runs West and East

Feb '09, Citizens filed interconnection request with WAPA for the North Antelope Highlands project , a 100Mw and a 90Mw wind farm.

Feb '09, Citizens set up 2 extra MET towers on site to gather additional data and correlate with RST wind data, RST data indicates site is in Class 7.

Throughout the spring, summer and fall of 2009, Avian studies were conducted on the site and are complete.

Citizens developed a site layout on turbine locates with 127 turbine locates to date.

Cultural studies , Class I and III to be conducted fall of 2010 along with Fauna and Flora studies .

RST use of revenue stream

- Develop the natural resources from our wind, sun, hydro, and our geothermal resources, into a reservation wide distributed generation system, to lessen our dependence on the larger grid to become self sustainable.
- Tribe to support an entity such as Rosebud Energy Service Corporation, RESCO, starting our own tribal utility company, purchasing the existing distribution system from the local cooperative.
- Support our people by upgrading the efficiency of their houses, upgrading their heating and cooling systems with renewable energy devices such as small wind turbines and photovoltaic panels through grant/loans.
- Support start up funding for small tribally owned companies developing residential renewable energy devices , with the intent to expand outward beyond the reservation boundaries to much larger markets creating jobs and industries.

Contact Information



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RST Chairman's Office

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