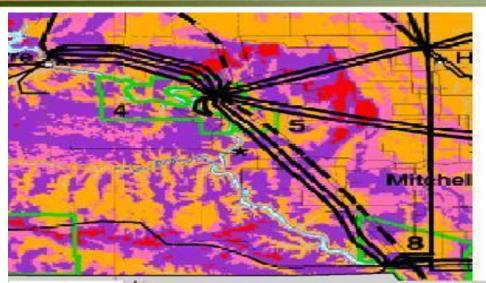


Overview

- Project Mission: Improve the economy for Crow Creek Sioux Tribe and surrounding area
- EPA Webinar Objective:
 - First Find \$4 Million Mezzanine level financing to finish Pre-Construction tasks
 - Second Find entity/s interested in Purchased Power Agreement (PPA)
- Crow Creek Tribal Wind Project (CCTWP) = 400 MW nameplate capacity
- Using (182) 2.2 MW Vestas Wind Turbines
- Developed jointly: Winterhawk Energy & Development and the Crow Creek Tribe
- Pending Bureau of Indian Affairs (BIA) & Department of Interior (DOI) Approval
- BIA is Lead Agency for all related Federal Permitting
- Located in Hughes, Hyde, Buffalo Counties, SD, all on Tribal Lands
- East of the Missouri River, on Big Bend Dam, surrounding the Integrated System's (IS) Fort Thompson $345~{\rm kV}/230~{\rm kV}$ Substation
- Construction & Permanent Financing Assured After "\$4.0M of Mezzanine Financing" for Final Pre-Construction Tasks is Secured

Crow Creek Tribal Wind Project Hughes, Hyde & Buffalo Counties, SD



Transmission Line Voltage

69 Kilovolts

115 Kilovolts
230 Kilovolts

1 345 Kilovolts

	Wi	nd Power Class	sification	
Wind Power Class	Resource Potential	Wind Power Density at 50 m W/m ²	Wind Speed ⁸ at 50 m m/s	Wind Speeds at 50 m mph
234 567	Marginal Fair Good Excellent Outstanding Superb	200 - 300 300 - 400 400 - 500 500 - 600 600 800 800 - 1600	5.6 - 6.4 6.4 - 7.0 7.0 - 7.5 7.5 - 8.0 8.0 8.8 8.8 - 11.1	12.5 - 14.3 14.3 - 15.7 15.7 - 16.8 16.8 - 17.9 17.9 19.7 19.7 - 24.8

Indian Reservations

- 1 Stending Rock 2 Cheyenne River
- 3 Lake Traverse 4 Lower Brule
- 5 Crow Creek
- 6 Pine Ridge 7 Rosebud
- 8 Yankton
- 9 Flandreeu





Detailed Pre-Construction Assessment

1) Land Issues 2) Transmission Issues 3) Resource Issues and 4) Off-take/Customer Issues:

Land Issues		Points	CCTWP
	<u>Criteria</u>	Weighting	<u>Assessment</u>
1)	Location	0 to 3	3
2)	Landowners Identified and willing	0 to 3	3
3)	Land Fully Under Developer Control	0 to 15	15
4)	NEPA Studies & Permits: Submitted; Approved*	0 to 5	2
5)	Wind Farm & Transmission Siting**	0 to 5	4
Sub	total Land Issues Assessment	0 to 31	27

^{*} Preliminary Talks with BIA as Lead Federal Agency indicate EA only for NEPA

^{**} Preliminary talks, No State Permitting Required; Only Crow Creek Tribal; with Cooperation Assured





Detailed Pre-Construction Assessment Cont'd:

1) Land Issues 2) Transmission Issues 3) Resource Issues and 4) Off-take/Customer Issues:

Transmission Issues		Points	CCTWP
	<u>Criteria</u>	<u>Weighting</u>	<u>Assessment</u>
1)	WAPA Feasibility*; Impact**; & Facilities Studies	0 to 5	3
2)	Transmission Upgrade Costs Known	0 to 10	9
3)	Preliminary Engineering Underway; or, Complete	0 to 3	0
Sub	total Transmission Issues Assessment	0 to 18	12

^{*} WAPA Feasibility Study was completed in 2010.



^{**} WAPA Impact Study costing \$90,000 is the CCTWP's next major spending, and is due now.

Detailed Pre-Construction Assessment Cont'd:

1) Land Issues 2) Transmission Issues 3) Resource Issues and 4) Off-take/Customer Issues:

Resource Issues		Points	CCTWP
	<u>Criteria</u>	<u>Weighting</u>	<u>Assessment</u>
1)	Wind Data, over 1 year's worth & in Hand	0 to 15	15
2)	NCF (Net Capacity Factor) Above 30%*	0 to 15	15
3)	Construction & Permanent Financing Ready**	0 to 5	4
4)	Alliances with Credible Partners***	0 to 5	5
Sub	total Resource Issues Assessment	0 to 40	39

^{*} Net Capacity Factor with new Vestas 2.2 MW model yields approximately 44%



^{**} Vestas and others will finance upon completion of Pre-Construction Tasks, which require Mezzanine Level investment of \$4.0 Million

^{***} Alliances exist with Vestas and Atwell, LLC

Detailed Pre-Construction Assessment Cont'd:

1) Land Issues 2) Transmission Issues 3) Resource Issues and 4) Off-take/Customer Issues

Off-take/Customer Issues		Points	CCTWP
	<u>Criteria</u>	<u>Weighting</u>	<u>Assessment</u>
1)	Pro Forma Costs Similar to other SD Projects	0 to 15	10
2)	Minimum PPA Price Similar to other SD Projects	0 to 15	10
3)	PPA arranged and agreed to*	0 to 45	0
4)	Wind Farm & Transmission ISD Known	0 to 10	0
Subt	otal Resource Issues Assessment	0 to 85	20
Grand Total Pre-Construction Issues Assessment		0 to 174	98

 $^{^{*}}$ Target: Military Bases with upcoming DOD mandated 25% RPS, Energy Companies, EPA-Green Power Partners, and Incumbent Utilities in Surrounding States





Other Favorable Aspects

- The (182) Vestas Turbine delivery Position with Vestas is a "Priority Position"
- Exclusive Development Contract with the Crow Creek Tribal Leadership 250,000 Acres
- Received Crow Creek Tribal Sovereign Immunity Waiver
- Transmission Interconnection Line, Extension Cord, is 3.0 Miles of 230 kV estimated at \$4.5M
- Interconnection Cost at Fort Thompson Substation estimated at \$3.0M for total wind farm
- WAPA Feasibility Study First 227 MW Capacity Available with no other System Upgrades
- WAPA Feasibility Study Next 173 MW Capacity Available with \$700K System Upgrade
- Tribal Wind Energy Projects Qualify for (3) Year MACRS (Modified Accelerated Cost Recovery System; i.e. Depreciation)
- Tribal Wind Energy Projects May Receive Double the Saleable RECs (Renewable Energy Credits) of Non-Tribal Wind, if current draft energy bill passes



Contacts:

Winterhawk Energy & Development Company

CEO - Paul McMenaman

Phone: 303.437.2678

winterhawked@aol.com

Atwell, LLC (Real Estate & Project Management Services)

Consultant – Joseph (Joe) Dudak

Phone: 734.395.6974

idudak@atwell-group.com

