

STANDING ROCK SIOUX TRIBE WIND FEASIBILITY STUDY



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OVERVIEW:



- **BACKGROUND INFORMATION ON STANDING ROCK SIOUX TRIBE**
- **WIND ASSESSMENT STUDY**
- **WIND FEASIBILITY STUDY**
- **CONCLUSION:**
 - COMPUTER DATA CENTER
 - OCETI SAKOWIN POWER PROJECT
- **LESSONS LEARNED:**
 - RENEWABLE ENERGY & ENERGY DEVELOPMENT OFFICE
 - ENERGY LEADERSHIP
 - NEW GRANT COMMITTEE
 - OIL & GAS PREPARATION WORKING GROUP

STANDING ROCK



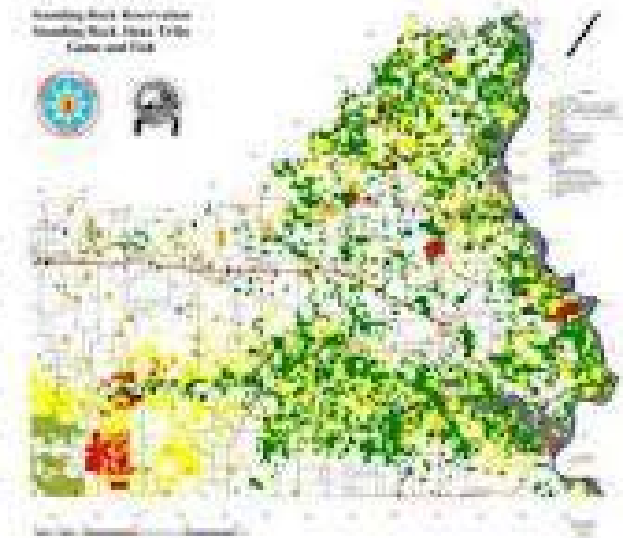
- ONE OF SEVEN RESERVATIONS OF THE GREAT SIOUX NATION
- LOCATED IN SOUTH-CENTRAL NORTH DAKOTA & NORTH-CENTRAL SOUTH DAKOTA
- LOCATED IN SIOUX COUNTY, ND; CORSON COUNTY, SD & SMALL PORTIONS OF ZIEBACH & DEWEY COUNTIES IN SD
- RESERVATION DIRECTLY TO THE SOUTH IS CHEYENNE RIVER SIOUX TRIBE



STANDING ROCK



- **LAND**
 - TERRAIN
 - WOODLANDS, ROLLING HILLS, RIVER VALLEYS, AND LAKES
- **CHECKERBOARD OWNERSHIP**
 - ALLOTTED, TRIBAL, AND OTHER (STATE, FEDERAL, NON-INDIAN)
- **2,320,247.67 ACRES (SOON TO INCREASE DUE TO LBBP)**
- **LOST NEARLY 560,000 ACRES DUE TO THE PICK-SLOAN FLOOD CONTROL ACT OF 1944**



STANDING ROCK



DAKOTA:

**HUNKPATINA &
CUTHEAD –
YANKTONAI**

**LAKOTA: THE
MAJORITY ARE
HUNKPAPA &
BLACKFEET**



**CETAN WAKINYAN (THUNDERHAWK &
TATANKA IYOTAKE (SITTING BULL):
CHILD-HOOD FRIENDS (HUNKPAPA
LAKOTA)**

STANDING ROCK SIOUX TRIBE



- **ORGANIZATION**
 - CHAIRMAN, VICE-CHAIRMAN, SECRETARY
 - 8 DISTRICT REPRESENTATIVES
 - 6 AT-LARGE REPRESENTATIVES
- **SEPARATED INTO 3 COMMITTEES:**
 - JUDICIAL
 - ECONOMICS
 - HEALTH, EDUCATION, & WELFARE
- **EACH PROGRAM DIRECTOR REPORTS TO ASSIGNED COMMITTEE ON A MONTHLY BASIS**

WIND FARM PROJECT:



- **COUNCILMEN:**
 - DAVE ARCHAMBAULT II (CURRENT CHAIRMAN)
 - JOSEPH MCNEIL
- **LEADERSHIP THAT ENVISIONS RENEWABLE ENERGY BOTH AS AN ECONOMIC SOURCE AND ALTERNATIVE ENERGY SOURCE FOR STANDING ROCK**

ENERGY DEVELOPMENT



- **LOOK GENERATIONS INTO THE FUTURE: HOW WILL OUR DECISIONS TODAY AFFECT FUTURE GENERATIONS?**
- **RESOLUTION STATEMENTS:**
- **TO DIVERSITY ENERGY (BOTH RENEWABLE & NON-RENEWABLE) SOURCES**
- **TO DIVERSITY ECONOMIC RESOURCES**
- **TO ADMINISTER SERVICES THAT MAY CONTRIBUTE TO THE SOCIAL & ECONOMIC ADVANCEMENT OF THE TRIBE AND ITS MEMBERS**

WIND ASSESSMENT STUDY



- **FUNDED THROUGH THE DEPARTMENT OF INTERIOR**
- **WORKED WITH CONSULTANT ENGINEERING COMPANY TO ASCERTAIN THE BEST LOCATION FOR A WIND FARM**
- **CRITERIA BASED ON:**
- **ACCESSIBILITY**
- **PROXIMITY TO SUB-STATIONS OR TRANSMISSION LINES**
- **AVAILABILITY OF “TRIBAL-TRUST” OR “TRIBAL-FEE” LAND**
- **WIND DATA TAKEN FROM MET TOWER IN ELGIN ND**
- **SECONDARY: “WHERE’S THE WIND?”**

WIND FEASIBILITY STUDY



- **THE 2ND STEP IN THE VISION FOR A COMMERCIAL WIND FARM ON STANDING ROCK**
- **2 50-METER MET TOWERS ARE NOW LOCATED ON THE SHERWOOD HILL SITE**
- **BUSINESS PLAN:**
- **CONTRACTED LEGAL COUNSEL TO LOOK INTO WIND ENERGY TAX CREDITS, BUSINESS MODELLING, ETC.**
- **WHAT IS BEST FOR STANDING ROCK?**

WIND FEASIBILITY STUDY



**PLANNED YEAR LONG MONITORING BEGAN IN JANUARY
2013**

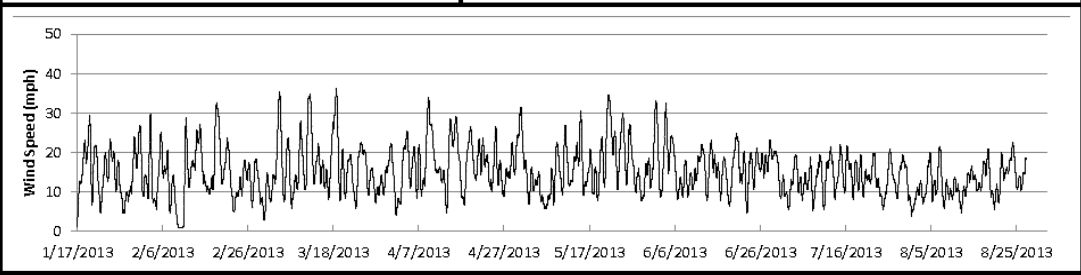
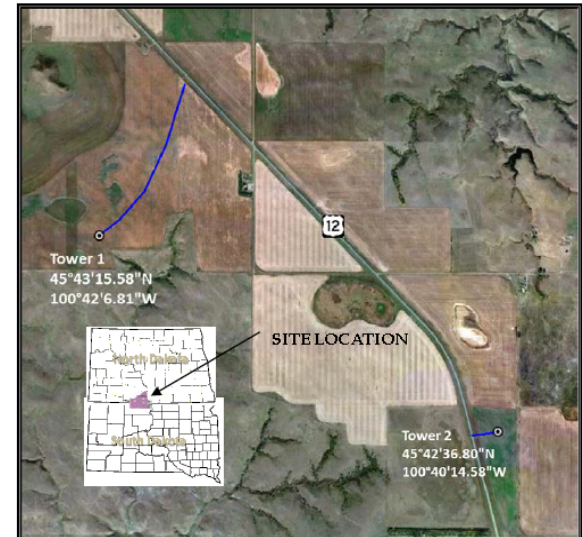
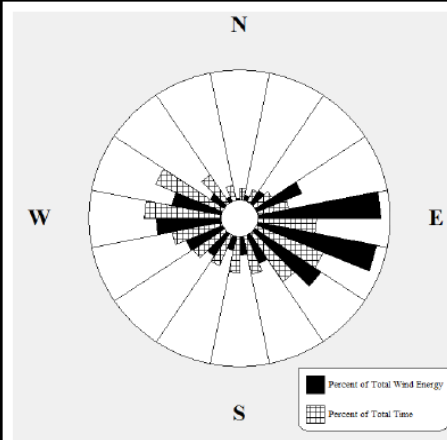
**DESK STUDIES COMPLETED – GEOLOGIC SETTING,
POTENTIAL AVIAN IMPACTS**

**PRELIMINARY INTERCONNECTION INDICATES
CHALLENGES IN GETTING POWER TO MARKET**

WIND FEASIBILITY STUDY : TOWER 1



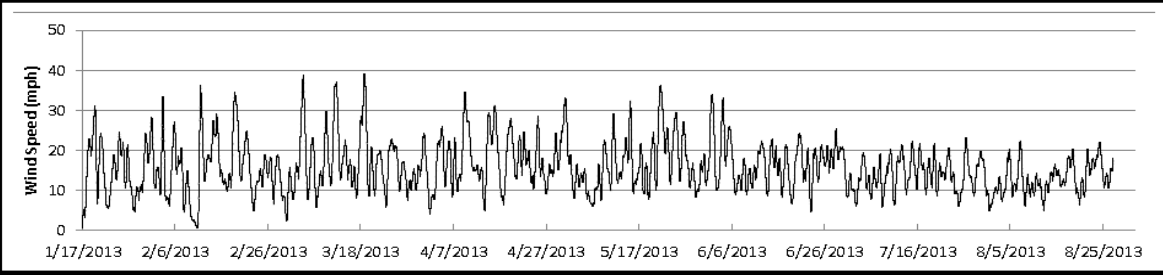
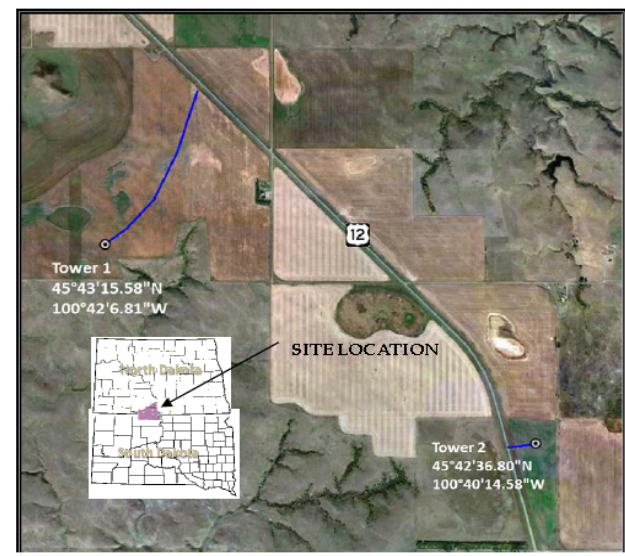
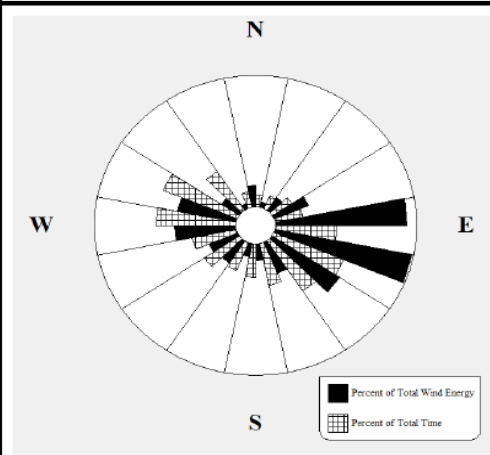
Project Name: SRST Wind Monitoring
Site Name: Tower 1
Period of Report: 01/17/2013 to 08/27/2013
Average Wind Speed: 15.16 mph



WIND FEASIBILITY STUDY: TOWER 2



Project Name: SRST Wind Monitoring
Site Name: Tower 2
Period of Report: 01/17/2013 to 08/27/2013
Average Wind Speed: 15.82 mph



WIND FEASIBILITY STUDY: TAX FINANCING



WIND TAX CREDITS:

**NOT SURE IF WE CAN MAKE THE “BEGIN CONSTRUCTION”
REQUIREMENT**

PROBLEM: NEPA REQUIREMENTS/CLEARANCE

OPTION 1:

**DUE TO OUR TRANSMISSION PROBLEM, WE HAVE
ENTERED INTO NON-DISCLOSURE AGREEMENTS WITH
SEVERAL COMPUTER DATA CENTERS**

SOLVES INTERCONNECTION PROBLEM

SATISFIES “PUBLIC REVIEW” (USE POWER LOCALLY)

POTENTIAL FOR JOB CREATION

OCETI SAKOWIN POWER PROJECT



- **7 COUNCIL FIRES**
- **STANDING ROCK SIOUX TRIBE, CHEYENNE RIVER SIOUX TRIBE, CROW CREEK SIOUX TRIBE, ROSEBUD SIOUX TRIBE, OGLALA SIOUX TRIBE, FLANDREAU SANTEE SIOUX TRIBE, SISSETON WAPEHTON SIOUX TRIBE, YANKTON SIOUX TRIBE**
- **TRIBES WILL COMBINE THEIR EFFORTS & RESOURCES TO BUILD A UTILITY SCALE 1GW+ WIND POWER GENERATION & TRANSMISSION SYSTEM THAT WILL SELL POWER TO OUT OF STATE BUYERS**

OCETI SAKOWIN POWER PROJECT



**PROJECT WILL BE BUILT BY \$2 - \$3 BILLION IN FUNDING
RAISED BY THE ISSUANCE OF POWER REVENUE BONDS
ISSUED BY THE OSPP**

**TRIBES WILL MAINTAIN OWNERSHIP & CONTROL OVER
THE PROJECT**

**FINANCING COSTS WILL BE GREATLY REDUCED & THUS
NOT DEPENDENT ON THE EXTENSION OF THE WIND
PRODUCTION TAX CREDIT**

FUTURE PLANS



- **DECIDE BETWEEN THE 2 OPTIONS:**
 - COMPUTER DATA CENTER
 - OSPP
- **ENVIRONMENTAL ASSESSMENT ON SITE 5 (SHERWOOD HILL)**
 - AVIAN ISSUES
- **ARCHAEOLOGICAL MICRO – SURVEY (\$\$ PROBLEM)**

LESSONS LEARNED



- **FRUSTRATION – DEVELOPMENT IN INDIAN COUNTRY...**
 - SURROUNDING WIND FARMS
 - LOCAL BIA FIELD OFFICE (LACK OF ENERGY EXPERIENCE)
- **RENEWABLE ENERGY & ENERGY DEVELOPMENT OFFICE**
- **CREATION OF ENERGY & MINERAL MANAGER**
 - STRATEGIC PLANNING
- **ADMINISTRATIVE DIRECTIVES:**
 - OIL & GAS PREPARATION WORKING GROUP
 - NEW GRANT COMMITTEE (CFO, ADMINISTRATION, CONTRACTING...)
 - ENERGY LEADERSHIP

ANY QUESTIONS/COMMENTS?



***“LET US PUT OUR MINDS
TOGETHER TO SEE
WHAT WE CAN BUILD
FOR OUR CHILDREN.”***

TATANKA IYOTAKE

HUNKPAPA LAKOTA

CHIEF SITTING BULL

