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): CHILDHOOD 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 2\textsuperscript{ND} 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

SITE LOCATION

Wind Speed (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: 13.82 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

• ARCHAEEOLOGICAL 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