



WHITE RIVER COMMUNITY SOLAR ON THE NORTHERN CHEYENNE RESERVATION

2019 DOE OFFICE OF INDIAN ENERGY ANNUAL PROGRAM REVIEW





NORTHERN CHEYENNE

THERE IS OVER 11,000 ENROLLED MEMBERS AND OVER 5,000 RESIDE WITHIN THE RESERVATION'S 5 DISTRICTS. OUR LAND BASE TOTALS 444,000 ACRES WITH 99% OWNED BY THE TRIBE ITSELF OR INDIVIDUAL TRIBAL MEMBERS.

THE NORTHERN CHEYENNE PEOPLE VALUE OUR CONNECTION WITH THE CREATOR AND ALL LIFE. THOUGH MANY SUFFER FROM EXTREME LEVELS OF POVERTY, OUR PEOPLE HAVE CONTINUOUSLY REFUSED TO SELL OUR MINERAL RESOURCES AND DEFORM AND POISON MOTHER EARTH.



PROJECT OVERVIEW

2.6 MW GROUND MOUNTED SOLAR ARRAY w/ SINGLE AXIS TRACKING

- POWER WILL BE SOLD BACK TO THE LOCAL UTILITY
- REVENUE WILL BE USED TO HIRE A FULL TIME MAINTENANCE PERSON
- REMAINING REVENUE WILL BE USED TO LOWER THE BILLS OF ELDERS AND THE MOST IN NEED

400 kW BEHIND THE METER OF THREE TRIBAL BUILDINGS

- BUSBY TRIBAL SCHOOL
- NORTHERN CHEYENNE HEAD START
- BUSBY WATER PUMP HOUSE

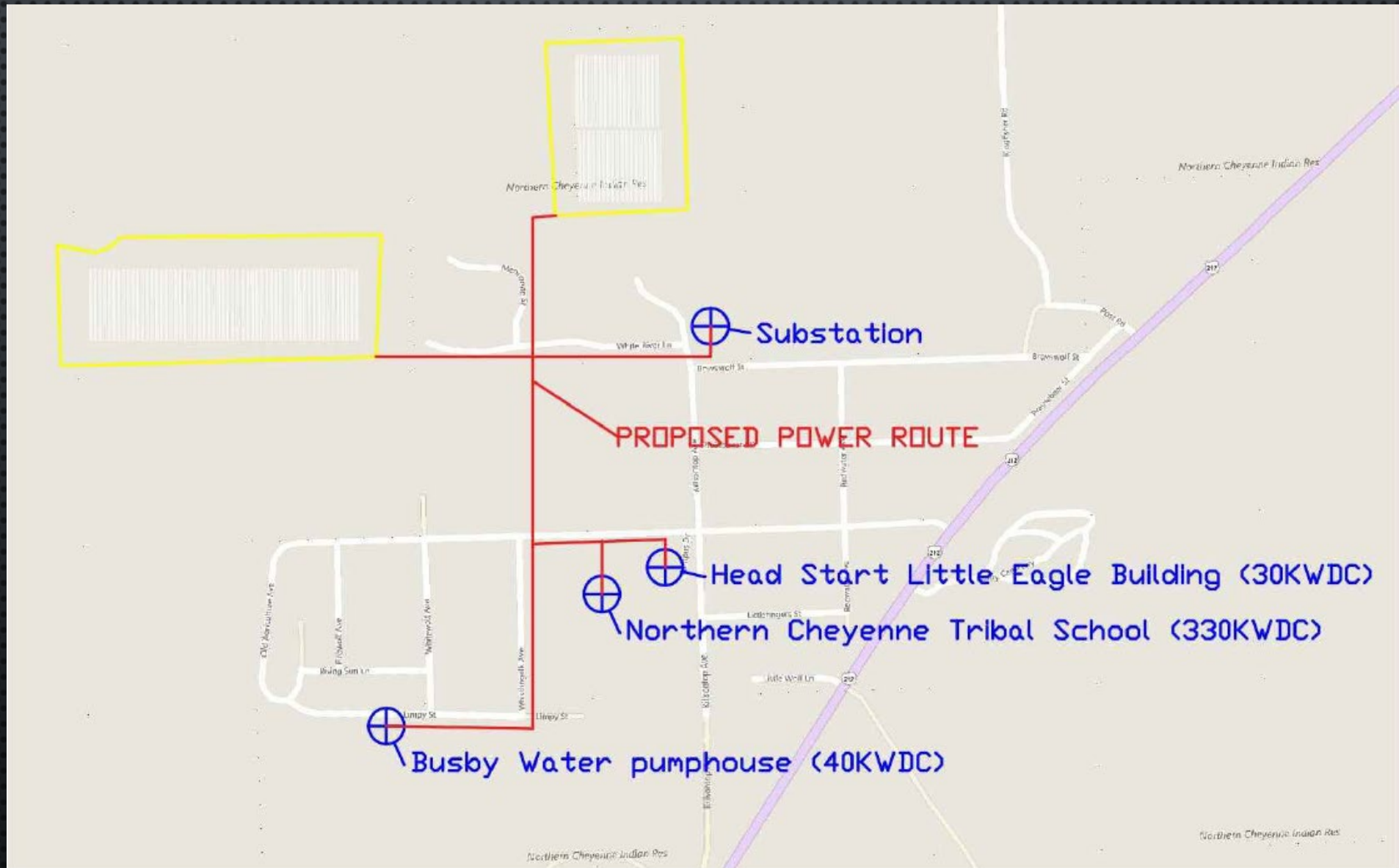


BUSBY A.K.A. WHITE RIVER



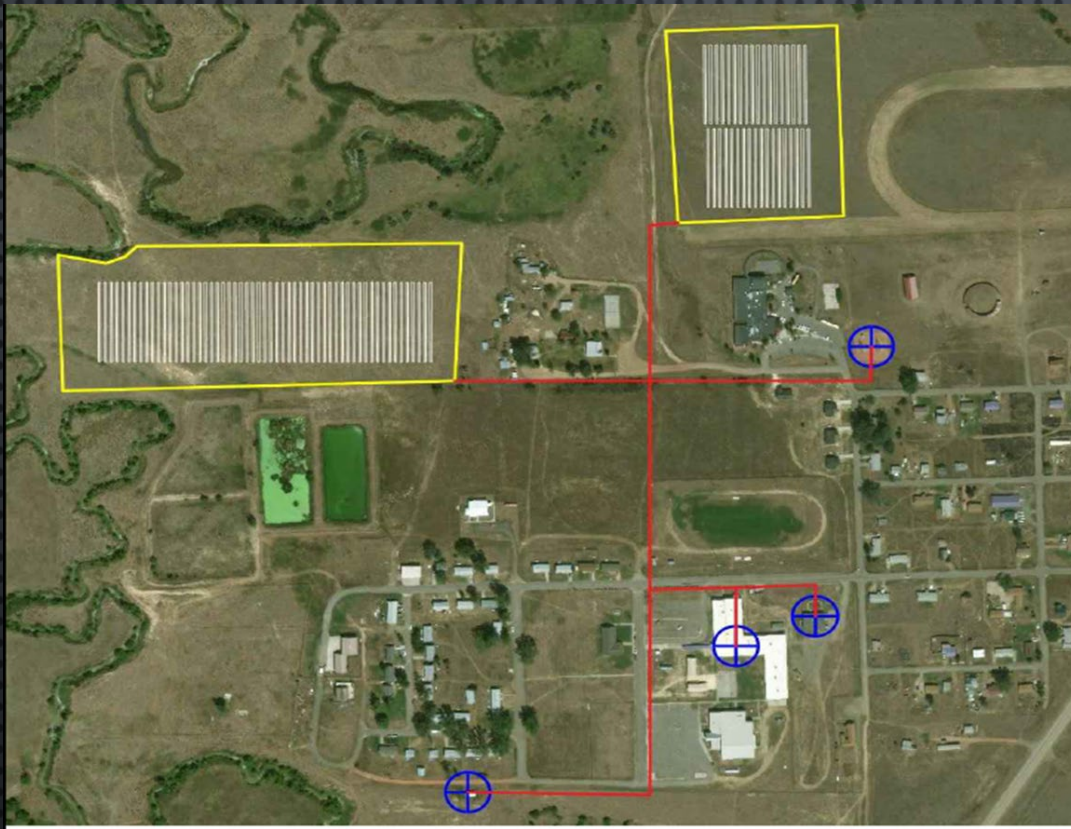


PROPOSED LAYOUT





2.6 MW SOLAR ARRAY BENEFITS



PROJECTED
\$87,000+/YEAR IN REVENUE



400 KW BEHIND THE METER OF THREE TRIBAL BUILDINGS

WATER PUMP HOUSE



NORTHERN CHEYENNE TRIBAL SCHOOL



NORTHERN CHEYENNE LITTLE EAGLE
HEAD START

PROJECTED TO SAVE THE TRIBE
\$43,000/YEAR



COMBINED PROJECT BENEFITS

- COULD GENERATE 4,360 MWH/YEAR
- COMBINED SAVINGS AND REVENUE \$130,000 - \$200,000+/YEAR
- 33 SHORT TERM JOBS
- TRAINING FOR 20-30 NORTHERN CHEYENNES
- A CO₂ REDUCTION OF 3,154 TONS/YEAR
- OVER 300 STUDENTS WILL BENEFIT
- MORE THAN 250 BUSBY RESIDENTS COULD SEE LOWER ELECTRIC BILLS



PROGRESS TO-DATE

- IN NEGOTIATIONS WITH LOCAL POWER UTILITY (TRECO) AND THE UTILITY THEY HAVE A SOLE SOURCE AGREEMENT TO PURCHASE ELECTRICITY FROM (BASIN ELECTRIC)
 - PPA AT \$26.5/MWh OFFERED BY BASIN
 - TRIBE IS ASKING TRECO FOR AN ADDITIONAL \$15/MWh SUBSIDY IN EXCHANGE FOR A PARTIAL WAIVER ON COST TO RENEW EXPIRED RIGHTS OF WAY FOR THE INITIAL LIFETIME OF THE SYSTEM
 - OTHER DESIGN SCENARIOS ARE BEING CONSIDERED IF THE IRR PROVES TO BE TOO LOW TO ATTRACT A TAX CREDIT INVESTOR
- IN TALKS WITH REC BUYERS



PROJECT PARTICIPANTS

TRIBAL PRESIDENT

TRIBAL COUNCIL

RENEWABLE ENERGY MANAGER

SUSTAINABLE ENERGY COMMITTEE

ATTORNEYS

KILONEWTON – RENEWABLE ENERGY CONSULTANT

ONEENERGY - DEVELOPER

D.O.E



PROJECT OBJECTIVES

- LOWER THE COST OF ELECTRICITY FOR AS MANY TRIBAL MEMBERS AS POSSIBLE
 - TRAINING AND JOBS FOR TRIBAL EMPLOYEES
- LEARN AND MANEUVER FEDERAL STATE AND TRIBAL ENERGY REGULATIONS



PREVIOUS ENERGY PROJECTS

2007 WIND FEASIBILITY STUDY

2009 50 kW ROOF MOUNTED SOLAR ARRAY (SHOULDER BLADE SENIOR COMPLEX)

2016 TRIBAL COUNCIL PASSED SUSTAINABLE ENERGY INITIATIVE

2017 96 kW ROOF MOUNTED SOLAR ARRAY (LITTLE WOLF CAPITOL BUILDING)

MULTIPLE RESIDENTIAL ROOFTOP SOLAR INSTALLATIONS



THE FUTURE

WIND AND SOLAR TRAINING

WEATHERIZATION

COMMUNITY/RESIDENTIAL/UTILITY SCALE PROJECTS



CONTACT INFORMATION

KYLE ALDERMAN

NORTHERN CHEYENNE RENEWABLE ENERGY MANAGER

KYLE.ALDERMAN@CHEYENNENATION.COM

406-477-4824

WILLIAM WALKS ALONG

TRIBAL ADMINISTRATOR

WILLIAM.WALKSALONG@CHEYENNENATION.COM

406-477-6284