NORTHERN CHEYENNE

TSITSISTAS AND SOOTEO

The Northern Cheyenne Tribe consists of Tsitsistas and So’teo’ people. 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 resources that deform and poison Mother Earth.
PROJECT OVERVIEW

2.5 MW Ground Mounted Solar Array
Power 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

3x 100 kW Behind the Meter of Three Tribal Buildings
Busby Tribal School
Northern Cheyenne Head Start
Busby Water Pump House

15 x 10 kW Residential Systems
Launching Cheyenne Solar program by Tribe
Participants will use part of savings for O&M
PROGRESS TO-DATE 2020

❖ PROJECT AMENDMENTS

➢ SOPO AND BUDGET REVISION ADDING TRAINING AND RESIDENTIAL SOLAR ASPECTS

- **We plan to add 15+ ground mount residential projects behind the meter increasing benefit to the community and project revenues**
- **Reduce land area footprint of total project**
- **Add training element to facilitate building tribal capacity**
- **Reformulating Team (Brought on: Covenant Solar Initiative and ProtoGen, and have continued working with KiloNewton)**
- **To offset any potential added cost to the project caused by the redesign, we are utilizing an EMDP grant (does not count towards cost share) and the help of Covenant Solar’s pro-bono assistance**
Project Progress 2020

- 2.5 MW
  - Interconnection agreement submitted
  - 9 acre layout plan in progress
  - PPA at $26.5/MWh offered by Basin
  - Partnership with Covenant Solar to identify tax-credit investors and discounted equipment purchases

- 3 x 100 kW behind the meter
  - Sized to be below TRECo 100 kW limit for small generation
  - Proposing co-investment by Tribe
  - Systems in design for bidding

- 10 kW residential
  - Will use TRECo residential net-metering policy
  - Program to identify participants designed
  - SPE formation (Indigenous Power and Light) in progress to manage system ownership
Proposed Layout
BUSBY A.K.A. WHITE RIVER - 2.5 MW
Mounted Solar Array
PROPOSED LAYOUT

3x 100 kW Behind the Meter of Three Tribal Buildings
POTENTIAL LAYOUT
10kW Residential
Training Program Design

- Performed in conjunction with Chief Dull Knife College
- Targeting tribal members with job skills and construction experience
- Hands-on and focused on the ground-mount equipment and methods that will be used on White River project
- Participants completing training will be offered internships or full time jobs in the construction of residential and commercial projects funded by the grant
PROJECT PARTICIPANTS

TRIBAL PRESIDENT
TRIBAL COUNCIL
SUSTAINABLE ENERGY COMMITTEE
RENEWABLE ENERGY MANAGER
NCT ATTORNEYS
KILONEWTON – RENEWABLE ENERGY CONSULTANT
COVENANT SOLAR INITIATIVE
PROTOGEN
ECO CHEYENNE
CHIEF DULL KNIFE COLLEGE
PROJECT OBJECTIVES

- LOWER THE COST OF ELECTRICITY FOR AS MANY TRIBAL MEMBERS AS POSSIBLE
  - TRAINING AND JOBS FOR TRIBAL EMPLOYEES
    - CREATE REVENUE STREAM
  - LEARN AND MANEUVER FEDERAL, STATE, AND TRIBAL ENERGY REGULATIONS
  - DEVELOP CAPACITY TO PLAN, DEVELOP, AND MANAGE RENEWABLE ENERGY ASSETS
PREVIOUS ENERGY PROJECTS

2005 Chief Dull Knife Solar Demonstration 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)

2020 EDAP Community Consultation and Scoping Report, Solar, Wind, and Hydro
THE FUTURE

Wind and Solar Training
Weatherization
Community/Residential/Utility Scale Projects
Tribal Utility Formation
Energy Independence
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