

DEPARTMENT OF ENERGY

Office of Energy Efficiency and Renewable Energy

Tribal Energy Program

Eastern Shoshone Tribe Northern Arapahoe Tribe



Eastern Shoshone & Northern Arapaho Tribes on the Wind River Reservation



- Project Overview
- Participants
- Project Location
- Project Status



Eastern Shoshone & Northern Arapaho Tribes on the Wind River Reservation



Project Overview

- Developing a sustainable, integrated wind energy plan for the benefit of the Tribes.
- Provide a preliminary evaluation of the technical, economic, social and environmental feasibility of the wind energy project

Eastern Shoshone & Northern Arapaho Tribes on the Wind River Reservation



Project Participants

- Decision Makers
 - Eastern Shoshone Tribe
 - Northern Arapaho Tribe
 - Joint Business Council
- Funding Assistance
 - DOE Tribal Energy Program
- Technical Assistance
 - Tatanka Energy Services (Cost Sharing Partner)
 - Disgen Native American Programs and Resources (Cost Sharing Partner)

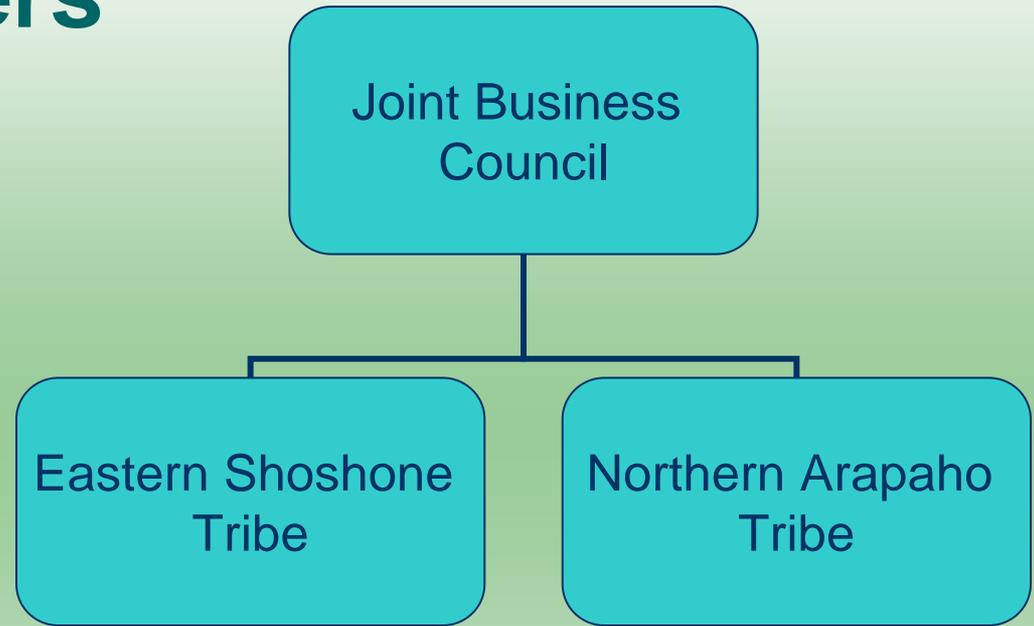
Tatanka Energy - DISGEN Native American Programs and Resources

Eastern Shoshone & Northern Arapaho Tribes on the Wind River Reservation



Decision Makers

- Joint Business Council
- Eastern Shoshone Tribe
 - Contact: Jeremy Perry
 - Roger Cox
 - Agreement with DOE
 - Intertribal COUP member
- Northern Arapaho Tribe
 - Contact:

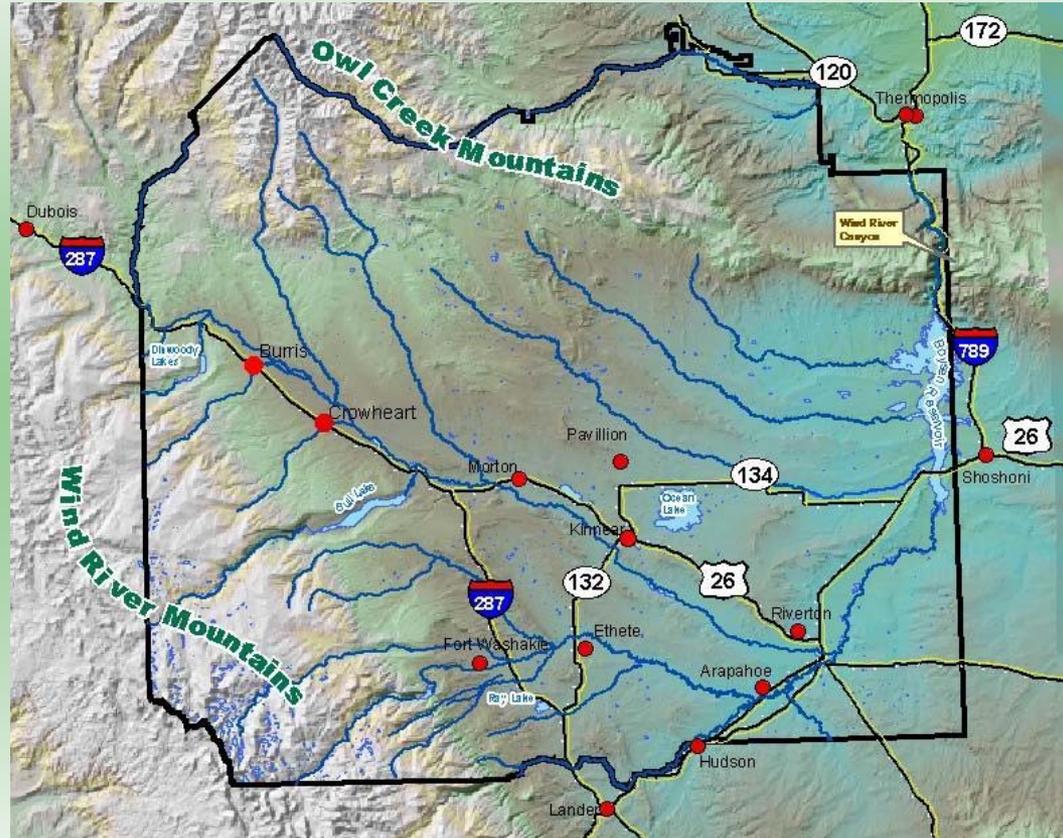


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Decision Makers

- 2.2 million acres reservation is shared by 2 Tribes.
- 3500 Eastern Shoshone members
- 7,000 Northern Arapaho members





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Funding Assistance

- \$224,155 Budget
- DOE Tribal Energy Program
\$190,405
- Tatanka/DISGEN Native American Programs
and Resources
Cost Share \$33,750



Technical Assistance

- Tatanka Energy Services
- Distributed Generations Systems, Inc
 - Native American Programs and Resources
 - Belvin Pete, Navajo
 - Western EcoSystem Technologies
 - Ed McCarthy, Meteorologist
- Providing the Cost Share to the Feasibility Study

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Objectives

- Assess wind resources on the tribal lands
- Assess the potential environmental impacts of renewable development
- Assess the transmission capacity and capability
- Establish economic models for tribal consideration
- Define economic, cultural and societal impacts
- Submit a final report on the activity



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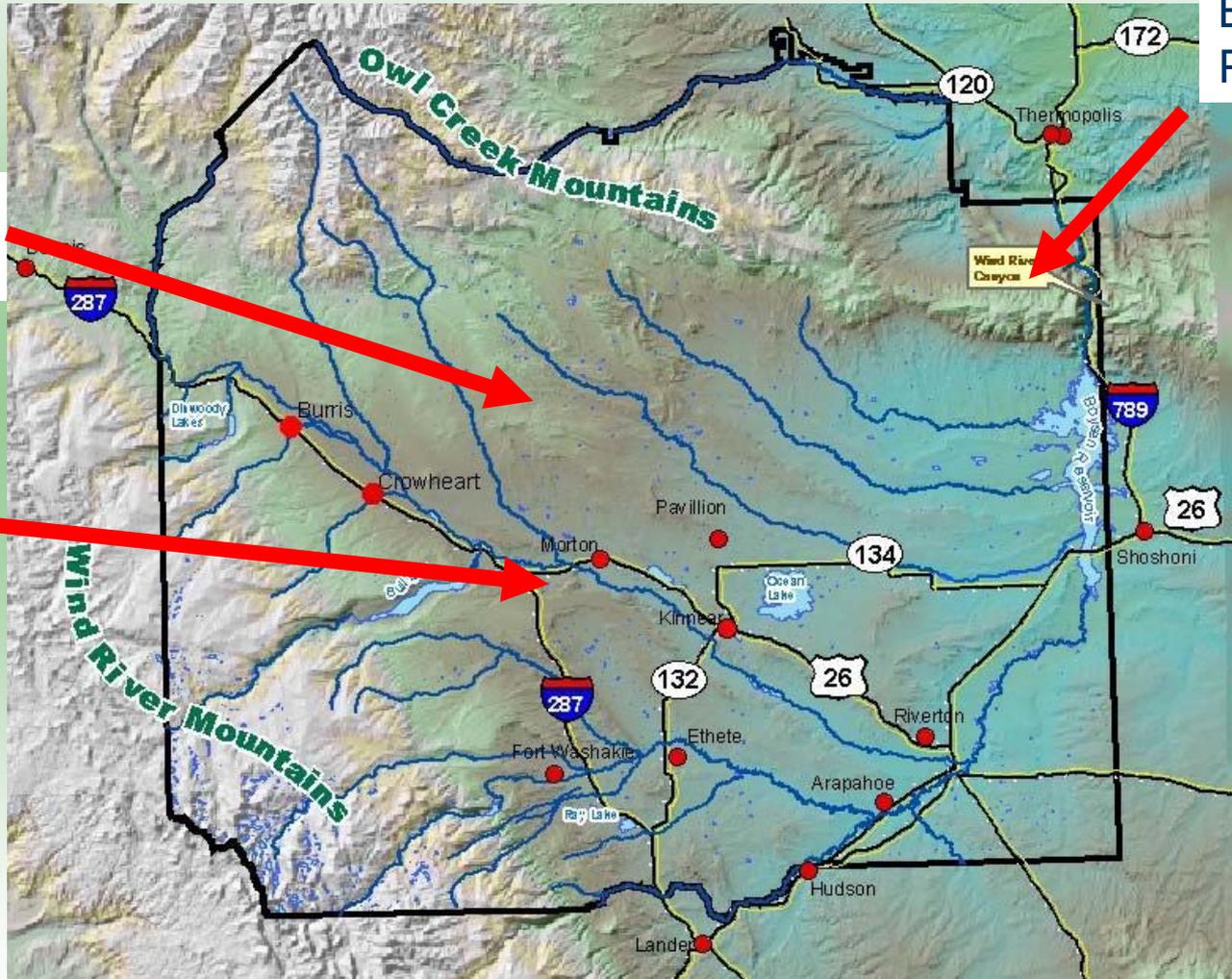
Relevant Background Information

- Wind Powering America
- Anemometer Loan Program
- 2 sites were evaluated
 - Bighorn Flats
 - Boysen Peak

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Project Locations





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Accomplishments

- Site Visits by Participants
- Joint Business Council approved Sheldon Dome site.
 - Instrument an existing communication tower
- The Boysen Peak site has not been permitted.



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Technical or Management Issues

- Permitting
- Cultural Significants on Boysen Peak.
- Getting Approval by the Joint Council



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Activities Yet to Be Completed

- Met Tower installations
 - Completed at Sheldon Dome, Feb 2007
 - 14.5 mph annual average, Sheldon Dome
- Collect 1 year of wind data
 - 13.5 mph annual average, Bighorn Flats
- Phase One Avian Screening
 - Completed
- Transmission Capability Review
 - Local utility has completed preliminary – awaiting report
- Economic / Market Review



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Activities Yet to Be Completed

- Adding 2 more met towers at the Boysen Peak area.

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- Thank you
- Questions?