

# Smith River Rancheria

## Wind & Biomass Power Generation Feasibility

DOE Tribal Energy Program  
Program Review Meeting  
October 17 - 21, 2005

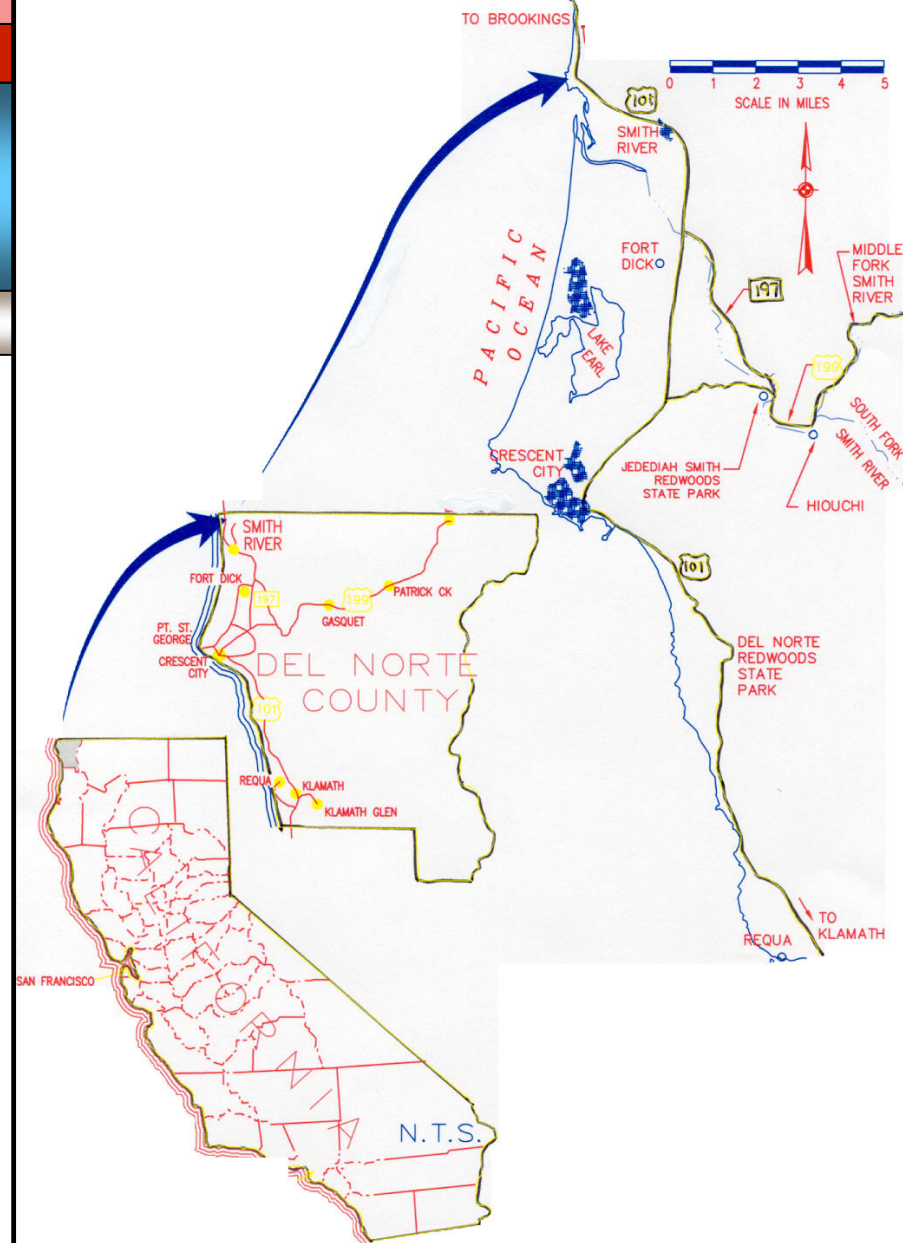


# Smith River Rancheria

- Coastal Community of 600
- Members Living in Oregon
- Next Door to Booming Community
- Additional Development Opportunities

# Location

- Northern California Location
- Members in Oregon
- Multiple Jurisdictions
  - Federal
  - Del Norte County
  - Curry County



# Location

- Coastal Setting
- Wind Rich Area



# Location

- Rancheria Location
  - Forested
  - Near Forest Products Company



# Past Development

- Casino
- Gas Mart
- Community Center
- Head Start and Day Care Facility
- Pursuing Wastewater Treatment
- Plans for Six Other Tribal Facilities



# Past Study

- Energy Planning and Self-sufficiency Study
  - Best Technology Options
  - Reduce Power Cost
  - Energy Self-sufficiency
  - Utilize Natural Resources
  - Establish Energy Organization
  - Training



# Project Overview

- Determine Feasibility of Power Generation
  - Technical
  - Economic
  - Biomass
  - Wind



# Participants

- Smith River Rancheria
  - Russ Crabtree Tribal Administrator
  - Jon Grant Grants & Contracts Officer
  - Nita Rolfe Program Coordinator
  - Dorothy Perry Administrative Assistant

# Participants (Continued)

- Outside Expertise
- Multiple Experts Evaluating Feasibility
  - Higher Quality Results
  - More Creative Solutions
  - Better Access to Other Strategic Partners
- Nurture Partnerships

# Participants (Continued)

- Consultants
  - Greg Retzlaff, Strategic Energy Solutions, Inc.
    - Lead Consultant, Economic, Benefits, Biomass
  - Leonard Gold, L. S. Gold & Associates, Inc.
    - Transmission, Interconnect, Benefits, Biomass
  - Stephen Anderson, Evergreen Energy Corporation
    - Utility, Power Marketing, Wheeling, Standby Power

# Participants (Continued)

- **Consultants (Continued)**
  - David F Luck, Luck Variable Resources
    - Wind, Operation & Maintenance
  - Terry Thomas, Environmental Management Associates
    - Environmental Benefits, Impacts, Permitting Plan
  - JD Williams, Tribal Law Office
    - Deregulation, Jurisdiction, Community Awareness, Community Support Strategies

# Participants

- Possible Partnerships
  - Local Forest Products Firm
  - Incumbent Utility - Pacific Power, California
  - Regional Cooperative - Coos-Curry Electric
  - Energy Funds
  - Independent Power Producers (IPP's)

# Objectives

- Economical & Technical Feasible
- Evaluate Wind & Biomass
- Tribal Energy Load Assessment
- Community Need For Energy vs. Export
- Conservation Opportunities
- Power Market Assessment
- Site-specific Resource Monitoring

# Match Tribal Objectives

- Energy Vision Statement & Guiding Principles
- Comprehensive Economic Development Strategy
- Support Tribal Energy Objectives
- Support Tribal Economic Development Objectives

# Background Information

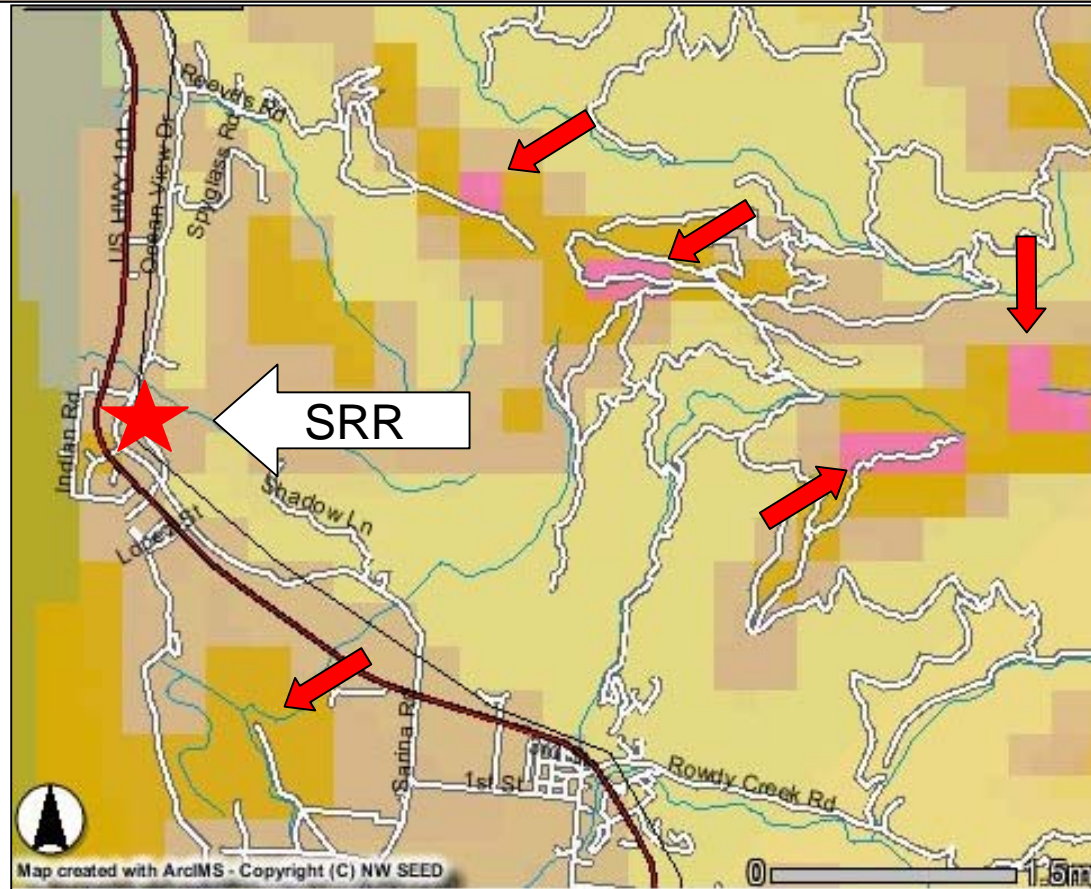
- Wind Resources
  - Resource Available
  - Preliminary Sites Identified





# Background Information

- Potential Sites
- Utilized Easiest if Close
- Sell to Market



# Background Information

- Biomass
  - Resource Available
  - Existing Forest Products Industry
  - Possible Cogeneration Partnership



# Wind & Biomass Power Generation Feasibility

## Smith River Rancheria



Russ Crabtree - Tribal Administrator  
Jon Grant - Grants & Contracts Officer

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