Seneca Nation of Indians

Strategic Energy Resource Plan

DOE “First Steps Towards Developing Renewable Energy & Energy Efficiency” Grant Project Review
October 20, 2004
Golden, Colorado
Long Range Energy Plan – Three Phase Development

- Phase I – Visioning Process
  Community/Stakeholders; SWOT Analysis
- Phase II – Energy Audit, Resource Assessment, Organizational Development
- Phase III – Generation Assessment & Development Plan
Project Location

SENeca Nation of Indians
Locational Map of the Territories

Geographic Information Services
- Seneca Nation Territories
- Western New York Counties
Project Location

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Location Map of the Territories

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Map showing locations of Cattaraugus Territory, Allegany Territory, and Seneca Niagara Casino.
Project Partnerships

- Plan Developers
  - Seneca Nation of Indians Tribal Council
    - Tribal Councilor
    - Planning Commission representative
  - SNI Administration
    - Community Planning & Development Dept.
    - Utilities Dept.
    - Environmental Protection Dept.
  - US Dept. of Energy/EERE/NREL
  - Local Utilities
  - Consultants – Nast a Peme Consulting
    - RJB Engineering
Objectives

- To develop a long range energy plan to guide the energy resource management, conservation, and development consistent with the Seneca vision for energy self-sufficiency & environmental stewardship.

  - **Secondary Goals:**
    - Economic Development
    - Heightened Quality of Life
    - Improved Revenue Streams
Planning Overview

1. Define Nation’s Vision, Goals & Priorities
2. Identify/Inventory Resources
3. Complete Energy Audit
4. Develop Strategy to maximize responsible production of natural gas resources while addressing environmental concerns
5. Assess environmental and production issues pertaining to natural gas resources

Continued…
Planning Overview, cont.

6. Define Development Portfolio – renewables & non-renewables

7. Assess Economic Viability of generation/co-gen projects

8. Develop Org. Structure, policies/procedures, codes & ordinances to support long term goals

9. Create Action Plan for achieving long term goals
Project Status

- Visioning Process Complete
- Gas Assessment – On-going
  - Well inventory
  - Remediation, P&A, Data Analysis
  - Review of provider Agrmts, ROWs
  - Assessment of Gas Dept. Privatization

Cont....
Natural Gas Resources
Project Status, cont.

- **Energy Audit**
  - Current usage, rate analysis
  - Projected Demand
  - Contingency Analysis (Hydro vs. NiMo)

- **Renewable Assessment**
  - Anemometer Loan App.
    - Industry/mkt overview
    - Maps
True Winds Map
Cattaraugus Territory Site Map
Proposed Beach Site

Waterfront Development Area
Aerial Photography - '2000

*Use 1980 Seneca Nation Soil Survey References

Lake Erie

Approximately 46 Acres

Disclaimer

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Seneca Nation Geographic Information Services

- Possible Bounds of Nation Land
- Cattaraugus Territory Boundary
- Soil Types
- SNI Roads Data
- Structures
True Winds - Allegany
Allegany Territory Site Maps
Lieu Lands Site Analysis
Project Status, cont.

- Geothermal Assessment
  - SNI Preschool Project
  - Salamanca Central School District Project
  - Feasibility of Expanded Geothermal Use in Administrative Complexes, Resort Development
Issues/Challenges/Lessons

- Lack of personnel/technical knowledge
  - The wearing of many hats, juggling of many priorities
- Timelines
  - Need to have a champion in tribal government to help move process & engender cooperation
  - Things aren’t always as straight-forward as they seem; figure in some extra time
- Technical Knowledge
  - Steep learning curve – budget high for training
- Coordination/Cooperation
  - Can be an overwhelming issue
Technical Assistance Request

- Wind Resource Assessment
  - Micro-siting and prioritizing
  - Transmission study/Project scoping
- Geothermal Assessment
  - Issue identification & review
  - Preliminary Feasibility Analysis
Next Steps

- Continue Capacity Building
- Complete Renewable Assessments & Economics Studies
- Continue Gas well remediation & Increase Pdtn. Capacity
- Initiate Tribal Utility Formation & Long Term Plan
- Implement Energy Codes & Ordinances
- Renegotiate Purchase Agreements, ROWs, & hydro allocation
- Assess Generation Project Development