



# Seneca Nation of Indians

## "Strategic Energy Resource Plan"

*Energy Framework for the Future*

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Denver, Colorado



# SNI Energy Plan

- Project Location
- Project Overview
- Project Participants
- Objectives
- Outcomes
- Future Plans



# Project Location











# Seneca Nation Overview

- Seneca Nation is one of the original Five Nations of the Haudenosaunee, aka Iroquois Confederacy
  - Approximately 7800 enrolled members
- Four Main Territories in WNY
  - **Allegany** – 31,000 acres; City Of Salamanca leases 10,000 acres; 7350 residents; Museum, Class II&III Casinos, Campgd
  - **Cattaraugus** – 22,000 acres; 2300 residents
  - **Oil Springs** – 1 square mile; XX residents
  - **Niagara Falls** – 50 acres; Class III casino



# Project Partnerships

- Plan Developers
  - Seneca Nation of Indians Tribal Council
    - Tribal Councilor
    - Planning Commission Representative
  - Administration
    - Community Planning & Development Department
    - Utilities Department
    - Environmental Protection
  - U.S. Department of Energy
  - Local Utilities
  - Indian Energy Consultants



# SNI Strategic Energy Plan

- Goal - Energy Self Sufficiency
  - Rate Relief
  - Economic Development
  - Environmental Protection and Preservation
  - Resource Development





# SNI Energy Background

- Phase One –  
Visioning Process
  - Community Meetings
  - Review Historical & Current Energy Resources
  - Assess Community Priorities, Energy Potential, and Environmental and Economic Issues
  - SWOT Assessment
  - Final Report





# SNI Energy Plan – Phase II

## Outcomes

- Tribal Resource Assessment – Renewable & Non-renewable
- Rates & Usage Analysis – Current & Projected
- Infrastructure Inventory
- Industry Relationship Assessment
- Human Resource Development
- Identified Technical Assistance Needs
- Reviewed Regulation & Jurisdiction Issues
- Assessed Environmental & Cultural Components
- Identified Future Project Funding Opportunities



# SNI Energy Framework

## ■ Tribal Resource Assessment

### ■ Natural Gas Reserves

- Inventory/Assessment of Gas Wells
- National Fuel Agreement
- Gas Production and Delivery
- Generation Projects
- Environmental Issues





# SNI Energy Framework

- Tribal Resource Assessment
  - **Renewable Energy**
    - Wind Resource
    - Solar
    - Hydro
    - Ground Source Heat





# Turbine Locational DRAFT



Town of Conewango

Town of Napoli

Town of Salamanca

Town of Great Valley

Town of Randolph

Town of Coldspring

JIMERSONTOWN

SALAMANCA

KILLBUCK

17

17

Town of Allegany

COLDSRING

REDHOUSE

LIEU LANDS

CARROLTON

VANDALIA

Town of South Valley

STEAMBURG

Town of Red House

Town of Carrollton

ONOVILLE

State of New York

State of Pennsylvania

### Legend

- Turbine Locational Area
- Electric Transmission Line
- ★ Areas of Interest
- Southern Tier
- Town Boundaries
- Allegany Boundary
- Allegany River
- Hotchkiss Hollow



1 inch equals 2.25 miles

#### DISCLAIMER

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The Seneca Nation of Indians therefore assumes no responsibility or legal liability for the accuracy, completeness and reliability of this data.

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# SNI Energy Framework

- Strategic Resource Plan, cont.
  - Energy Efficiency
  - Cost & Rate Analysis (average cost per kWh)
  - Commercial/Revenue Enhancement Review
  - Energy Audit Preparation
  - Environmental Assessment





# Go Forward Plan

- Tribal Council Endorsement
  - Energy Management
    - Implement Energy Code – New Construction – SNI RPS
    - Complete Energy Audit & Efficiency Recommendations
    - Complete Infrastructure mapping (GIS)
  - **Renewable Resource Development**
    - Complete Anemometer Study/Assess Commercial Wind Project
    - Feasibility Analysis
      - Steamburg Renewable Project
      - CHP Co-Generation plant(s)
    - Build Tribal Community Consensus
      - Community Awareness & Education
      - Priorities
      - Economic
      - Cultural Focus
  - **Funding**



# Go Forward Plan, cont.

- Assess Utility Formation
- Natural Gas Production capacity & Infrastructure expansion
- Human Capacity Building
- Continue to build relationships/partnerships