Sault Ste. Marie Tribe of Chippewa Indians

Governmental Building Energy Audits

November 19, 2009
Summary of Sault Tribe

- Federally Recognized in 1972
- Approximately 40,000 Tribal Members
- 7-County Tribal Service Area
  - Eastern Upper Peninsula of Michigan
  - Approximately 1,600 Acres Held in Trust
Project Overview

- Conduct Energy Audits
  - 20 Tribally-Owned Governmental Buildings
  - Procurement of Qualified Contractor

- Energy Audit Summary Report
  - Basis for Prioritizing and Addressing Building Inefficiencies to Reduce Energy Consumption and Expenses

- Develop Action Plan to Address Findings

- Develop Process for Ongoing Monitoring of Targeted Results from Energy Improvement Implementations
Project Locations

🍁 20 Tribally-Owned Governmental Buildings

- Upper Peninsula of Michigan
- Across Rural 7-County Tribal Service Area

- Diverse Mixture of Tribal Building Locations & Uses:
  - Cultural & Ceremonial Centers
  - Elderly Centers
  - Judicial Building
  - Health & Human Services Clinics
  - Recreation & Community Centers
  - USDA Food Storage & Distribution Center
  - Elementary School & Day Care Center
  - Office Buildings
  - Retail & Service Facilities
Project Locations (Continued)
Chi Mukwa Community Recreation Center
- Sault Ste. Marie, MI
- Recreation Center
  - 150,000 Square Feet
  - 2008 Energy Cost $335,542
Tribal Administration Complex (2 Buildings)

- Sault Ste. Marie, MI
- Office Building
  - 70,792 Square Feet
  - 2008 Energy Cost $113,816
Project Locations (Continued)

Tribal Health Center
- Sault Ste. Marie, MI
  - Health Clinic
  - 49,950 Square Feet
  - 2008 Energy Cost $137,947
Project Locations (Continued)

JK Lumsden School
- Sault Ste. Marie, MI
  - School Building
    - 44,905 Square Feet
    - 2008 Energy Cost $95,617
Project Locations (Continued)

万博 sto Health Clinic / Community Center
- Manistique, MI
  - Health Clinic / Community Space
    - 24,822 Square Feet
    - 2008 Energy Cost $60,675
Tribal Health Clinic / Community Center
- Munising, MI
  - Health Clinic / Community Space
    - 21,000 Square Feet
    - 2008 Energy Cost $46,115
Project Participants

Project Oversight
- Tribal Board of Directors
- Executive Office
- Tribal Budget, Accounting, Human Resources, Purchasing and Planning and Development Departments

Project Staffing
- Project Director / Business and Technical Contact
- Comptroller
- Facilities Management and On-Site Operations Personnel
- Assigned Support Staff

Qualified Energy Audit Provider
- Established Tribal Procurement Policies and Procedures
- Request for Proposals (RFP)
- Bid Advertisements, Site Inspections and Public Bid Opening
- Bid Analysis, Contract Approval and Award
Project Objectives

- Procure Qualified Energy Audit Provider
- Conduct Energy Audits
- Conduct Project Progress Meetings
- Review Energy Audit Summary Report
- Create Findings Action Plan / Strategies
- Develop Process for Ongoing Monitoring of Targeted Results from Energy Improvement Implementations
- Present Project Communications and Executive Presentations
- Submit Required Grant Reporting
- Attend DOE Annual Program Reviews
2008 Electricity and Fuel Costs for the 20 Tribal Governmental Buildings Totaled $947,135

Significant Energy Savings Anticipated Due To:

- Heating and Cooling Systems Are Inefficient (Installed 10-15 Years Ago)
- Buildings Have Infiltration Issues
- Buildings Lack Adequate Insulation
- Buildings Have Inefficient Lighting Systems
- Other Unknown Energy Inefficiencies
Project Benefits

Define Extent of Need for Energy Efficiency Improvements

Provide a Sound Basis for Long-Term Energy Priorities, Strategies and Action Plans

Establish a Benchmark for Measuring Future Energy Plan Implementation Success
Sault Ste. Marie Tribe of Chippewa Indians

- Maximizing Energy Efficiencies
- Implementing Renewable Energy Products & Technology
- Developing Renewable Energy Power Plants

Sault Tribe is pursuing these energy options to protect natural resources, improve Tribal membership economic well-being, foster self-sufficiency and sustain operational continuity.

Sault Tribe expresses appreciation to the U. S. Department of Energy for providing the funding which makes this project possible. Miigwech