Menominee Tribal Enterprises

MTE Biomass CHP District Energy System

Presented by:
Norman Shawanokasic

P.O. Box 10 Neopit, WI 54150
Phone: 715/756-2311
Fax: 715/756-2386
http://www.mtewood.com
The Menominee Nation

- The Menominee Nation once occupied 9.5 million acres of land.

- The present Menominee Reservation was established in 1854 with 234,000 acres.

- The Menominee hunted, fished and harvested wild rice on their reservation.
The Menominee Nation

- The Menominee retained their island of timber & community by dint of their own tenacity, federal protection and fortuitous circumstance.
The Menominee Nation

- 95% of the reservation produces the finest old stands of hardwood, pine and hemlock located in the Great Lakes region.
The Menominee Nation

- Forty-six of Wisconsin’s timber varieties grow and are harvested on the reservation.
The Menominee Nation

• 24 miles of the Wolf River flows through the Menominee Reservation.

• It is one of the last pristine rivers in the state.
The Menominee Nation

- Located along the river at Keshena Falls is the Menominee Logging Camp Museum

- Visitors view over 20,000 artifacts housed in 7 log buildings
Menominee Tribal Enterprises

- MTE is the business arm of the Menominee Indian Tribe of Wisconsin
MTE is owned and operated by the Menominee Indian Tribe of Wisconsin through a 12 member Board of Directors elected from the members at large.
Menominee Tribal Enterprises

- Committed producer and manufacturer of quality sustainable forest products since 1908.

- Employs ~300 individuals throughout its operation. The mill alone employs ~160 in peak season.

- MTE embodies the culture, values and spirituality of the Menominee
Current District Heating System Site

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Project Scope

- Demo and Replace a 25,000 PPH boiler with a 8,600 PPH high pressure steam boiler
- Automate and update an existing boiler to operate for peaking and backup
- Generate 1,000 MWh with backpressure steam turbine
- New Fuel handling, storage and processing system
- Tie additional load to the steam plant
Timeline

- **September 2012 – March 2013**: Feasibility study by USFS WBUG Technical Assistance Team
- **May 2013 – September 2013**: applied for grants and financing
- **October 2013**: Automation of Boiler 1 started with USFS-WBUG grant

Before Boiler Remodel
Timeline

- **November 2013 – March 2014**: financing commitments secured
- **March 2014**: project engineering started
- **May 2014**: Piney Creek fuel processing equipment transaction
- **July 2014**: contracts signed for boiler, fuel handling and storage system and turbine

*After Boiler Remodel*
September 2014

Construction begins on the new fuel processing, storage and handling.

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March – April 2015
Demolition of Boiler 2
May 2015 – September 2015
Boiler delivery and install

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May 2015 – September 2015

Turbine delivery and install

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Future Timeline

- September 2015 – November 2015: Commissioning system
- December 2016: Final project closeout with DOE
Project Partners

- US-DOE; Community-Scale Clean Energy Projects in Indian Country
- USFS-WERC Technical Assistance Team
- USDA REAP Grant Program
- USFS Woody Biomass Utilization Grant
- Indian Affairs; Energy and Mineral Development Program
- WI Focus on Energy
- US Endowment for Forestry
- Indian Land Capital Company

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1908-2015

Menominee Tribal Enterprises is committed to excellence in the sustainable management of our forest, and the manufacturing of our lumber and forest products providing a consistently superior product while serving the needs of our forest, employees, wood products customers, tribal community, and future generations.