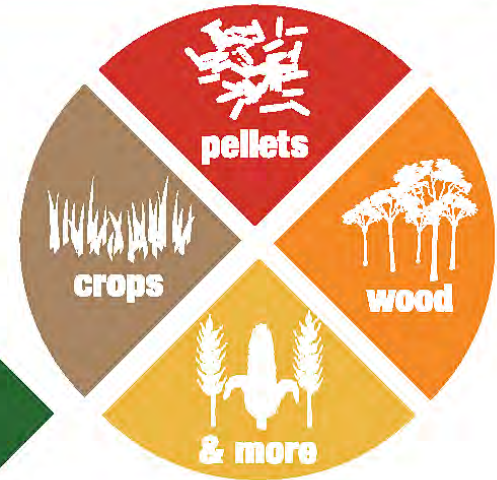


HEATING THE MIDWEST

WITH RENEWABLE BIOMASS



Heating the Midwest

13 Steering Committee Organizations

+ Action Team Organizations

100+ Conference/Expo Organizations

Conference Wrap-Up

- Vision uploaded at www.heatingthemidwest.org
- Conference presentations to be uploaded as PDF's
- Conference survey and call for participation

PLEASE JOIN US

Minnesota Renewable Energy Roundtable

Tuesday, April 30, 2013

10 a.m. – 3 p.m.

Farmamerica, Waseca, MN

- Keynote: **Lucas E3** on educating businesses on energy efficiency
- State of the State in Renewable Energy Industry Panel
- Presentations on advancing renewable energy in Minnesota
- Networking opportunities
- Visit the AURI booth **or** www.auri.org under *Events* for details & to register



Agricultural Utilization Research Institute

Conference Outcomes

- Tour and presentations of real world successful projects
- Vision of what the biomass future can be for homeowners and small businesses
- Market understanding and strategies
- New networks
- We have our work cut out for us, but the opportunity exists to ...

Achieve 10% of all thermal energy from biomass by 2025

Catalyze industry support and engage partners in government, non-profit and private enterprise to accelerate progress toward increasing biomass thermal use for heat and combined heat and power in the Midwest

Heating the Midwest with Renewable Biomass

A Midwest Vision *for 2025*



Photo Credit: Dennis O'Hara

Key Findings and Outcomes

- Achieve **15% of all thermal** energy from renewables by 2025
- Reduce **1.01 billion gallons** of propane and **278 million gallons** of heating oil
- Reinvest **\$2.2 billion** into the Midwest economy
- Create **13,170 jobs** from the expansion of the thermal biomass industry and up to **210,000 direct, indirect and induced jobs** from annual energy savings and the effects of no longer exporting heating fuel money from the region
- Supply **17.2 million green tons** of sustainable woody and agricultural biomass for thermal energy and combined heat and power by 2025
- **12,630,950 homes and businesses** are not connected to low-cost natural gas
- Improve air quality, **reduce greenhouse gases**, and enhance forest management
- Vitalize communities through **rural economic opportunities**, new industry and innovation

Achieve 10% of all thermal energy from biomass by 2025

The Vision

We propose that 15% of all thermal energy in the Midwest come from renewable energy sources with 10% derived from sustainably produced biomass by 2025. The remainder of this energy would come from solar thermal and geothermal sources. This shift in our sources for thermal energy will produce extraordinary economic, social and environmental benefits for the Midwest, which currently relies on fossil fuel for 97% of its thermal energy.

Action Areas

- Policy & Regulatory
- Advocacy & Awareness
- Financing & Incentives
- Research and Analysis

A Call to Action

- Contact HTM or BTEC to offer feedback, criticism, or ideas to improve the Vision.
- Share the Vision Document with anyone interested and invite their feedback.
- Raise these issues with your governor, state and federal officials, and state legislators.
- Join and engage in national organizations or state organizations.
- **Get involved! Heating the Midwest needs you!**

HTM Opportunities for Involvement

- Steering Committee
- Action Teams
 - Biomass Resources and Demographics
 - Combustion Technologies
 - Policy
 - Other action teams?
- HTM 2014 Conference Planning
- If not you – who? If not now, when?