



Wisconsin
Statewide Wood
Energy Team

Summary of Activities

Scott Sanford

University of Wisconsin-Madison

Team Members

- Olivia Shanahan – WPSC – Lead
- Scott Sanford, Tim Baye, Jason Fischbach – University of Wisconsin-Extension
- TJ Morice – Marth Companies
- Don Peterson – Sustainable Resource Institute & Renewable Resource Solutions
- Sabnia Dhungana, Steve Hubbard – Wisconsin Dept of Natural Resources
- Wisconsin Economic Development Corp
- Lew McCreery, Brian Brashaw – US Forest Service

Goal

Implement:

- 20-30 small scale wood energy projects
- 4 large scale wood energy projects

Accomplishment:

- 1 Feasibility study
- 0 installations

Problem: Cheap Fossil fuel



Planned Activities

- Train the Trainer workshop
- Residential and Small Commercial Heating with Wood Workshops;
- Large Commercial and Industrial Users Regional Workshops;
- Marketing and Technical Assistance for the Wood Pellet Industry;
- Wisconsin Wood Energy Website development;
- DNR Woody Biomass Supplier and End User Database development;
- Urban Wood, National Forest and Other Project and Wood Resource Lead Development;
- Consultations with Large Users;
- Cluster Project development;
- Greenhouse Wood Energy development;
- SWET Feasibility Study Grant Program; and
- Small project implementation.

Accomplishments

- Train the Trainer workshops
 - 1 day workshop
 - Plan for 6 locations
 - Tour of wood energy facility
 - Converted to a webinar series
 - 8 topics – one per week
 - ~ 60 people registered for at least one webinar



Other Workshops

- Residential and Small Commercial Heating with Wood Workshops
- Large Commercial and Industrial Users
Regional Workshops
- Postponed - Hoping for higher Fuel costs to increase interest

Wisconsin Wood Energy Website

Wisconsin Statewide Wood Energy Team

Search

HOME WE CAN HELP YOU... CASE STUDIES REGULATIONS LEARNING NEWS AND EVENTS ABOUT US MEMBERS

Helping Wisconsin Adopt Wood Energy

Whether for heat or power, burning wood is a great option for many home and business owners. Let us help determine if wood energy is a good fit for you.

About The Team

The Wisconsin State Wood Energy Team was launched in the fall of 2014 via a cooperative agreement with the United States Forest Service. The job of the Team is to help homeowners, businesses, and institutions explore the use of wood for heat, power, or both. Wood is a renewable, homegrown energy source and is often a competitively priced fuel source. However, before switching to wood it is a good idea to do your homework and we can help. Watch the video to get started and then click on a photo below.

www.wisconsinwoodenergy.org

Outreach Activities

- Wisconsin Farm Technology Day Show
 - Booth – literature, video, educational posters, Equipment – pellet boiler & furnace
 - 1000's of people exposed to display



Outreach Activities

- Wisconsin Commercial Flower Growers
 - Monthly meeting presentation – Sept 2015
 - @ Greenhouse with wood chip boiler
 - Annual Meeting – Booth Display - ~ 80 people
 - Little interest – Most growers have Natural Gas
 - Newsletter article
- 2 Radio Spots – promoting wood energy and free feasibility studies
- News Releases to print media

Outreach Activities

- Newsletter articles
 - WI Fresh Market Growers Association
 - WI Association of School District Administrators
- Midwest Poultry Federation Convention
 - Presentation: Wood Heating for Poultry Housing
- WDNR meeting
 - Presentation about SWET programs
- Better Building Conference
 - Presentation on wood heating appliances



Digging up Feasibility Leads



- Direct Mail

- Wisconsin Commercial Flower Growers (125)

- E-mailed, fax or phone call

- WI Boiler inspection list (215)

- Targeted to propane and fuel oil fired boilers

- WI nursery growers on plant inspection list (92)

- Those with a greenhouse – prescreened - Google Earth
- Not in areas known to have Natural Gas

Direct Mail Results

- 58 returned replies
 - 40 – not interested
 - 7 – interested but have natural gas
 - 11 – interested with propane or heating oil
 - 6 used < \$2500 in fuel per year – not contacted
 - 5 used > \$5000 per year – contacted
 - 3 never replied
 - 1 Feasibility Study completed
 - 1 waiting for fuel bills to begin feasibility study

Digging up Feasibility Leads

- Newsletter articles
- Emails to Regional Economic Development Directors
- Emails to UW-Extension Agents
 - Produced a few leads but most have natural gas
- Pending Feasibility studies
 - Small Greenhouse facility
 - Town of LaPointe – various buildings
 - Flooring mill
 - Pecatonica School district – elementary school

DNR Woody Biomass Supplier and End User Database

- Woody Biomass Producers list
 - Producers sorted by county
 - 98 producers
 - <http://dnr.wi.gov/topic/ForestBusinesses/documents/WoodyBiomassProducers.pdf>
- Woody Biomass Users List
 - Challenge to keep current
 - Fuel switching
 - Facilities closing



Urban Wood

- **Kenosha County Parks and Golf Course Mechanized Urban Harvest (Winter 2016)**
 - 700 cords of firewood removed and sold
 - 1,000 tons of woody biomass removed and chipped (used for mulch, because of lack of biomass fuel market)
- Mostly Ash Trees affected by Emerald Ash Bore



Urban Wood

- **City of Racine Urban Tree Removal**
 - Winter 2017
 - 2910 trees to be removed and utilized
 - Several other municipalities are being worked with to develop removal projects in coming years.



Chequamegon-Nicolet National Forest

- Sustainable Resources Institute is administering timber sale
- Worked with loggers to chip biomass from 3 sites
- ~700 tons of wood chips will be utilized at local power plant





Thank You!

Contacts:

Scott Sanford – sasanford@wisc.edu

608-262-5062

Olivia Shanahan -

Olivia.Shanahan@wisconsin.gov

608-267-0317