

Maximizing Bioenergy Resources in Wisconsin

Maria Redmond, Director

Wisconsin Office of Energy Innovation

August 31, 2017



Wisconsin Office of Energy Innovation





Vision

Securing Wisconsin's energy future and improving its economy and environment.

Mission

The Wisconsin Office of Energy Innovation promotes innovative and effective energy policies and programs that benefit Wisconsin's citizens and businesses.

Leadership in Bioenergy

Recognition that Wisconsin has an abundance of biomass/biobased resources that can be utilized for energy in multiple sectors:

- Crop residue
- Woody biomass
- Energy crops
- Waste (landfill, food, agriculture)

Leadership in Bioenergy

Identifying & Addressing Challenges:

- Production
- Capital Costs
- Cost-effectiveness
- Available Workforce
- Technology
- Aggregation of Feedstock



Bioenergy Sector Highlight - Biogas



2016 Wisconsin Biogas Survey Report

- Survey of 146 operating anaerobic digester (AD) systems and landfill sites that capture gas in Wisconsin.
- A tool to address market conditions and challenges related to operation and maintenance of systems
 - Energy generation equipment
 - Inter-sector collaboration
 - Revenue generation
 - Operation and maintenance
- Not just about energy - Nutrient Management and Water Quality

Bioenergy Sector Highlight - Biogas

- Interagency Workgroup
Created to Address
Challenges
- Allocated \$20 million of Focus on Energy Funds
to distribute through a competitive RFP
- Seeking a Multi-faceted project:
 - Biogas Energy Production and Utilization
 - Water Treatment and Recovery
 - Nutrient Management Improvements
 - Formation of Consortia
 - Customer Cost-Effectiveness
- Decision in Mid-September



Bioenergy Sector Highlight – Wood Energy



Wisconsin Statewide
Wood Energy Team

- Public-Private Partnership to expand wood energy market & its benefits
- Free wood energy feasibility studies
- Midwestern regional approach
- Support for Heating the Midwest
 - 2025 Vision: 15% of all thermal energy in Midwest from renewable energy sources; 10% from sustainably produced biomass

Bioenergy Sector Highlight – Transportation

- In Wisconsin., nearly 40 percent of all the energy we consume is used for transportation
- Opportunities:
 - Biogas to Compressed Natural Gas
 - Advanced Biofuels Production
 - Drop-in Fuels

Supporting Bioenergy Advancement

- Focus on Energy
- Clean Energy Manufacturing Revolving Loan Fund
- Municipal Energy Efficiency Technical Assistance Program
- Biofuels Retail Advancement in WI Transportation
- Statewide Wood Energy Team
- Energy Assurance/Resiliency Efforts
- Transportation Initiatives
- Biogas Initiatives
- Fostering Interagency Energy Work
- Policies and Incentives

Questions and Contact



Maria Redmond

Director

Wisconsin Office of Energy Innovation

610 N. Whitney Way, 2nd Fl.

Madison, WI 53705

(608) 266-1521

maria.redmond@wisconsin.gov