



**Proposed Portal Resource Guide
Renewable Energy and Ag Co-Products Sector
June, 2009**

Local, State and Regional General Resources

Office of Energy Security, MN Dept. of Commerce

- Various resources <http://www.state.mn.us/portal/mn/jsp/home.do?agency=Energy>

MSU Center for Renewable Energy Resources:

- Faculty listing that Angie has
 - Automotive testing labs <http://cset.mnsu.edu/arc/mncar.html>
 - Biomass research on various materials
 - Water Resource Center <http://cset.mnsu.edu/wrc/>
 - Small wind testing facilities
 - Electric vehicles and hybrids
- Information on IRETI <http://www.mnsu.edu/news/read/?id=1208190391&paper=topstories>

AFAB USA

- Swedish private business group wanting to establish manufacturing, sales and distribution in the USA with a connection to IRETI at MSU <http://www.afabusa.org/>

BioBusiness Alliance of MN

- General information <http://www.biobusinessalliance.org/>
- MN [Renewable Energy Vision Document](#)
- MN Renewable Energy Oppty's [Renewable Energy White Paper](#)
- MN [Renewable Materials Vision Document](#)
- MN Renewable Materials Oppty's [Renewable Materials White Paper](#)

DEED

- Wind Energy supply chain information
<http://mwa.deed.state.mn.us/Deed/WindPowerDeed.aspx>

Clean Energy Resource Teams (CERTs)

- One of the main goals of CERTs is to connect you with the technical resources you need to identify and implement community-scale energy efficiency and renewable energy projects. This section of our Web site acts as a clearinghouse for resources specific to certain technologies. We also have [project planning resources](#) for organizing and catalyzing your efforts. <http://www.cleanenergyresourceteams.org/technology>

Minnesota Center for Energy and Environment

- General overview. <http://www.mncee.org/>
- BioMass mapping resources for natural and waste resources
http://www.mncee.org/public_policy/renewable_energy/biomass/index.php

Agriculture Utilization Research Institute

- <http://www.auri.org/>
- Waseca site capabilities for testing ag co-products, pelletizing and other capabilities. The Waseca office also includes AURI's [co-products utilization lab](#). This facility helps develop products from such low value items as crop residue, animal manures and food processing waste.
- Marshall site capabilities. AURI's Southwest office includes a [fats and oils laboratory](#) for research on new uses for plant oils and animal fats. It also includes a [meat lab](#) that is used to assist in food product development and safety training.
- Crookston site capabilities. AURI's Crookston office includes the [state headquarters](#), a [product development lab](#) used in the creation of new food products from concept to finished product and a [fermentation and chemistry lab](#) for the research and analysis of industrial products and microbiology.
- Template tool for inventorying regional renewable energy resources: http://www.mncee.org/public_policy/renewable_energy/biomass/index.php

U of M, Southern Research and Outreach Center

- Research at the Southern Research and Outreach Center includes the following areas: Agronomy, Dairy and Beef, Farm Operations, Horticulture, Commercial Vegetable Production, Nutraceutical crops, Biohydrogen and biomethane production from animal wastes, Biomass crop production systems for energy and other renewable resources, Nematology, Soil Science and Water Quality, Swine, Water Management and Drainage, and Weather Information.
- Waseca site capabilities and mission. <http://sroc.cfans.umn.edu/>

University of Minnesota, Initiative for Renewable Energy and the Environment (IREE)

- <http://environment.umn.edu/iree/>
- <http://www.regionalpartnerships.umn.edu/>

Iowa

- http://www.iowalifechanging.com/business/renewable_energy.aspx

Renewable Energy Workforce Resources

Minnesota West Community and Technical College (MNWEST)

- Education programs to support the Ethanol and Wind Energy Industry <http://www.mnwest.edu/>

Minnesota Renewable Energy Marketplace (MNREM)

- The 'Renewable Energy Marketplace – Alliance for Talent Development' (MNREM) is an industry-led consortium of economic development, workforce development, education and workforce leaders

that provides the framework and commitment to transform the 36 county region of South Central, Southwest, and West Central Minnesota from primarily agriculture-dependent to a knowledge and innovation-based economy that capitalizes on the region's strength in agriculture and renewable energy.

<http://www.mnrem.org/wiki>

Renewable Energy Funding Sources

Southern Minnesota Initiative Foundation (SMIF)

- Grants and loans for green businesses in renewable energy and agricultural co-products
- <http://www.smifoundation.org/>

AgStar

- Funding source for green businesses
- <http://www.agstar.com/bioenergy/Pages/default.aspx>

Two Rivers Angel Investors Network

- General information and application information. <http://angelsoft.net/angel-group/two-rivers>

Burrill Agbio Capital Fund, L.P.

- Burrill & Company is the general partner of the Burrill Agbio Capital Fund, L.P. ("Fund I"). Fund I invests in companies having bio-based technologies broadly applicable to the agricultural, food and chemical industries, at various stages of development. In general, most of the investments are in the early stage (though generally not "seed round" investments) through mezzanine stage, with the largest number of investments in Series A/B and mid-stage rounds. Fund I closed in 1998 and is capitalized at \$66 million.
[http://venture.burrillandco.com/funds-14-Burrill Agbio Capital Fund LP.html](http://venture.burrillandco.com/funds-14-Burrill_Agbio_Capital_Fund_LP.html)

South Central MN Renewable Energy/Materials Supply Chain

Renewable Energy and Agricultural Co-Products Business Development Group

- Group of companies in the area with renewable energy supply chain capabilities
 - Green Duck Energy Solutions, Solar Energy Applications
<http://www.greenduckenergy.com/>
 - Energy Harvest Group, Solar Energy Applications and Storage <http://energy-harvest-group.com/> and i-Cel Systems <http://www.icelsystems.com/>
 - Kato Engineering, Wind Industry Supply-Chain Custom Generation <http://www.kato-eng.com/>
 - MTU Onsite Energy, Diesel and Fuel Cell Generation
<http://www.mtuonsiteenergy.com/Home/tabid/196/Default.aspx>
 - Year-A-Round Biomass Furnaces for Ag & Commercial Use http://www.year-a-round.com/corn_furnaces.html

- Today's Alternatives, Boilers and Small Wind Sales & Service
- Schwickerts, Daylighting and Green Roofing Engineering & Contracting
http://www.schwickerts.com/services_greenroof.shtml
- Natural Gas Turbine Technologies, Inc. <http://ngttonline.com/>

Energy Efficiency Resources for Business

DSIRE

- Database of Mn Incentives for renewables and efficiency <http://environment.umn.edu/iree/>
- National database of incentives for renewables and efficiency <http://www.dsireusa.org/>

MN Energy Smart

- Energy efficiency audit program for small business <http://www.mnenergysmart.com/>

Energy Matters Minnesota

- Energy Matters Minnesota is a diverse group of businesses and business-focused organizations in Minnesota that want to be informed about the impact of energy policies and emerging energy issues on businesses, consumers, and the state economy. The organization, led by the Minnesota Chamber of Commerce, also serves as a public information resource to individuals and organizations and is an advocate on energy issues.
<http://www.energymattersmn.org/about-us.cfm>

Xcel Energy

- On line energy small business save energy and money tools.
http://www.xcelenergy.com/Business/SaveEnergy_Money/Pages/Save_Energy_and_Money.aspx
- Renewable Energy for business
http://www.xcelenergy.com/Business/RenewableEnergy/Pages/Renewable_Energy.aspx

CenterPoint Energy

- On line tools for businesses.
<http://www.centerpointenergy.com/services/naturalgas/business/energyinformation/MN/>