

# Digesters for Managing Animal Waste: *A Practical Workshop*

August 21, 2002  
St. Cloud, MN

## Agenda

- 8:30**      **Sign-in, coffee and rolls**
- 9:30**      **Welcome**  
*William Hunt, State Conservationist*
- 9:40**      **Anaerobic digestion overview**  
*David Schmidt, University of MN Extension Service*
- 10:30**     **Assessing the feasibility of installing a digester**  
*Jack Johnson, Agricultural Utilization and Research Institute*
- 11:00**     **Break**
- 11:15**     **Operating experience of existing digesters**  
*Dennis Haubenschild, Haubenschild Farms, Princeton, MN*  
*Kyle Gordon, Gordondale Farms, Nelsonville, WI*  
*Carl Theunis, Tinedale Farms, Wrightstown, WI*
- 12:00**     **Steps to putting together a project**  
*Richard Mattocks, Environomics*
- 12:40**     **Lunch**
- 1:45**      **Concurrent sessions I    (chose one)**
- A) Selling your electricity**  
    *Moderator: Lola Schoenrich, MN Project*  
    *Bill Johnson, Alliant Energy*  
    *Betsy Engelking, Great River Energy*
- B) Financing your project**  
    *Moderator: Dennis Fuchs, Stearns County SWCD*  
    *Bob Le Cocq, Ag Star Financial Services*  
    *Jim Boerboom, Assistant Commissioner MDA*
- C) Environmental considerations**  
    *Moderator: Dean Schmidt, WesMin RC&D*  
    *Jim Sullivan, MN Pollution Control Agency*  
    *Stephen Lutes, Natural Resources Conservation Service*
- 2:30**      **Concurrent sessions II**  
*Repeat of above sessions*
- 3:15**      **Closing**

# CONTENTS OF RESOURCE BINDER

**Digesters for Managing Animal Waste:  
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## Section 1 – Speaker presentations

- 1-1 Anaerobic digestion overview (David Schmidt, U of M)  
Assessing feasibility (Jack Johnson, AURI-- see Section 2 for his materials)
- 1-11 Project development steps (Richard Mattocks, Environomics)
- 1-13 Selecting a digester designer (Richard Mattocks, Environomics)
- 1-15 Financing (Bob Le Cocq, AgStar Financial Services)
- 1-23 The State's role in biomass energy (Jim Boerboom, MN Dept. of Agriculture)
- 1-33 Environmental benefits of anaerobic digestion (Jim Sullivan, MPCA)
- 1-39 Environmental considerations of digested manure application (Stephen Lutes, NRCS)

## Section 2 – Assessing the feasibility of installing a digester

- 2-1 A “Self Screening” assessment method
- 2-5 Checklist to evaluate the likelihood of heated manure digestion system success
- 2-7 Profits from Manure Power? (MN Project fact sheet)

## Section 3 – Financing for manure digesters

- 3-1 Selected Government Incentives for Renewable Energy in Minnesota
- 3-3 Financial Assistance for Renewable Energy Projects (Federal/State loan programs)

## Section 4 – Case studies and other information

- 4-1 Final report summary: Haubenschild Farms anaerobic digester (updated!)
- 4-7 Existing digesters in the Great Lakes Region as of June 2002
- 4-9 Operating digesters in the U.S. as of March 2000
- 4-13 Minnesota's Potential for Electricity Production Using Biogas Resources
- 4-15 News article

## Section 5 – General manure digester information

- 5-1 Digesters for Manure Management and Energy – A resource list (MN Project)
- 5-3 Anaerobic Digesters and Methane Production (University of WI brochure)
- 5-9 Managing Manure with Biogas Recovery Systems (AgSTAR brochure)

