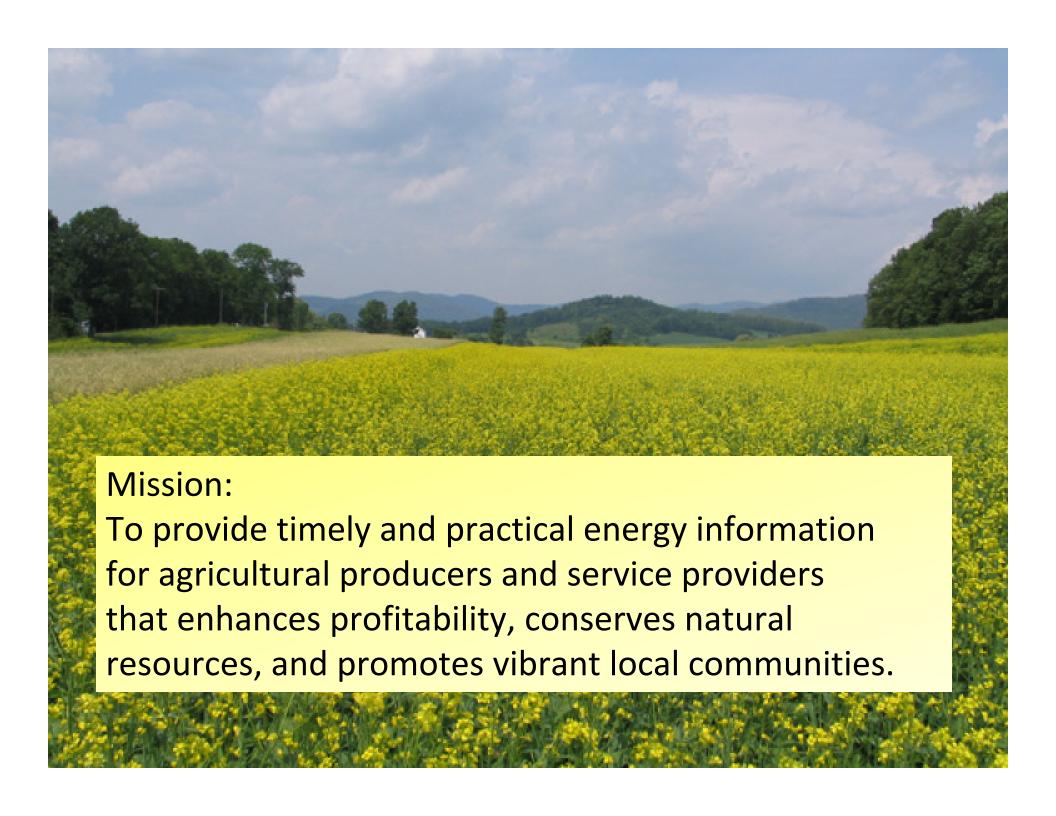
Plans for Sustainable Farm Energy Resources on eXtension





eXtension Farm Energy Goals

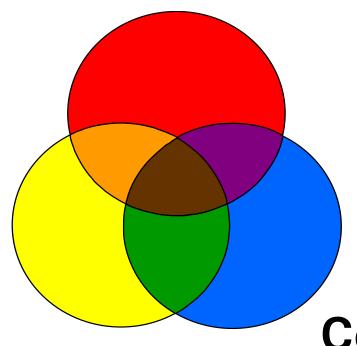
- Focused on the energy needs of farmers.
- Research based and peer reviewed.
- Collaboration among energy specialists.
- Link users to local and national experts and resources.
- "Launch" farm energy resources on www.Extension.Org in January 2010.

Community of Practice Content Categories

- Farm Energy Miscellaneous
 - About, Funding, Trends and Emerging Technologies, <u>Legal</u>, Net Metering, Carbon Trading
 - Sustainability Dimensions ***
- Farm Energy Conservation and Efficiency ***
 - Building, Equipment, Farm Systems (Inputs + Practices), Food Systems, Greenhouse, Irrigation
- Feedstocks for Biofuel Production
 - Algae, Animal Waste, Corn, Crop Residues, Grasses and Small Grains, Oilseed Crops, Starch Crops, Sugar Crops,
 Wood and Woody Biomass
- Processing Feedstocks into Biofuel ***
 - Pre-Processing, Thermochemical, Biochemical, Chemical, Combustion, Thermodynamic
- Biogas Energy and Anaerobic Digestion***
- Biomass Energy
- Ethanol
- Biodiesel ***
- Animal Power
- On-Farm Geothermal Energy
- On-Farm Hydropower
- On-Farm Solar Energy
- On-Farm Wind Energy ***

Sustainable Energy

Profitability
short and long
term



Stewardship

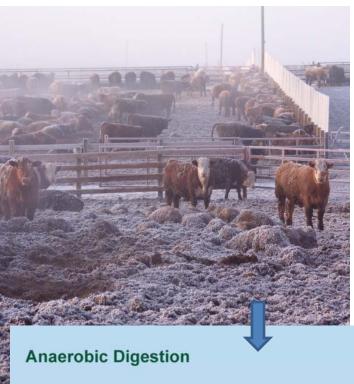
of natural resources

Community

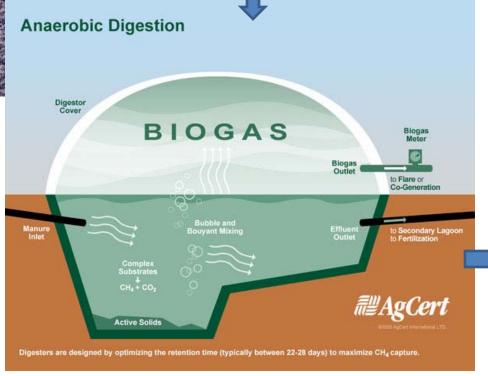
Support for and connection to agriculture

Legal, Regulation, Economics





Feedstock Processing Utilization

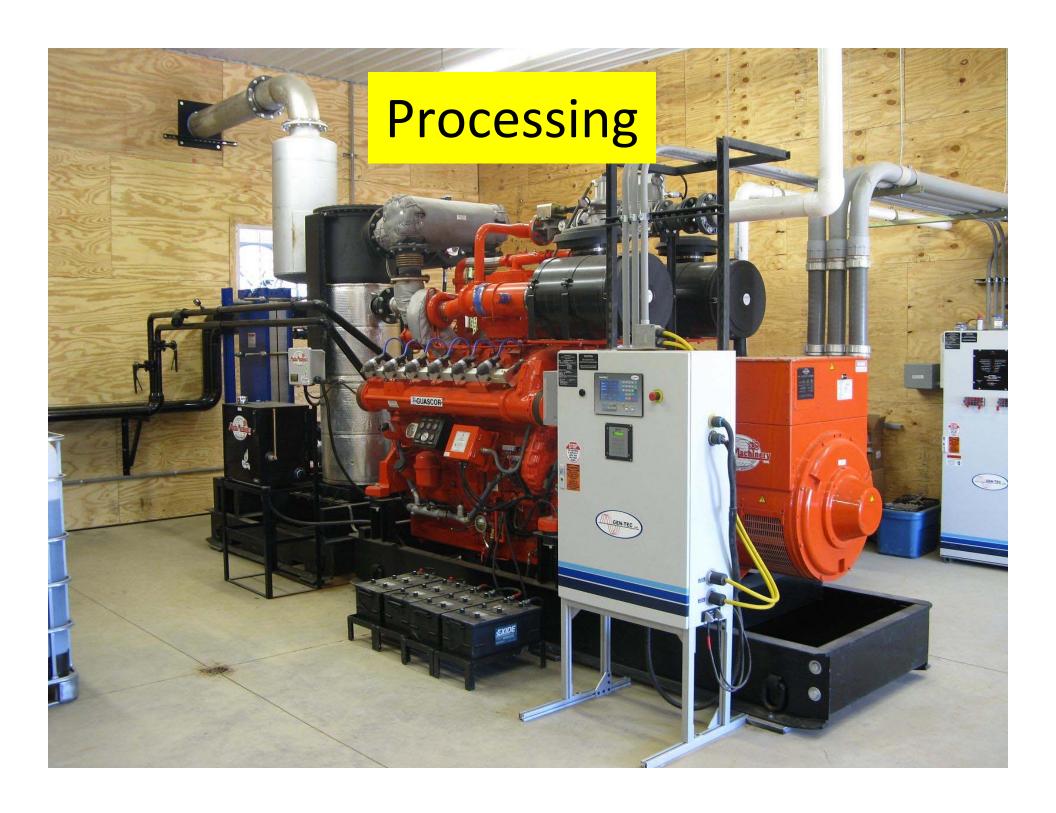




Active Content Teams



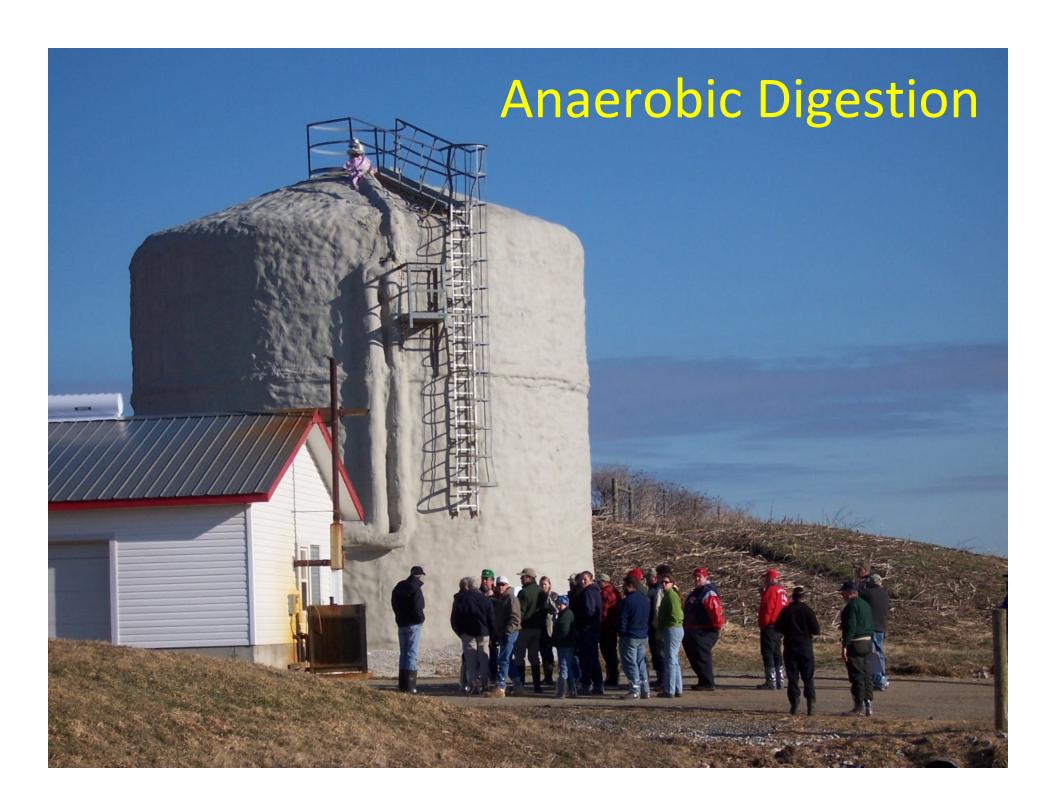




Utilization



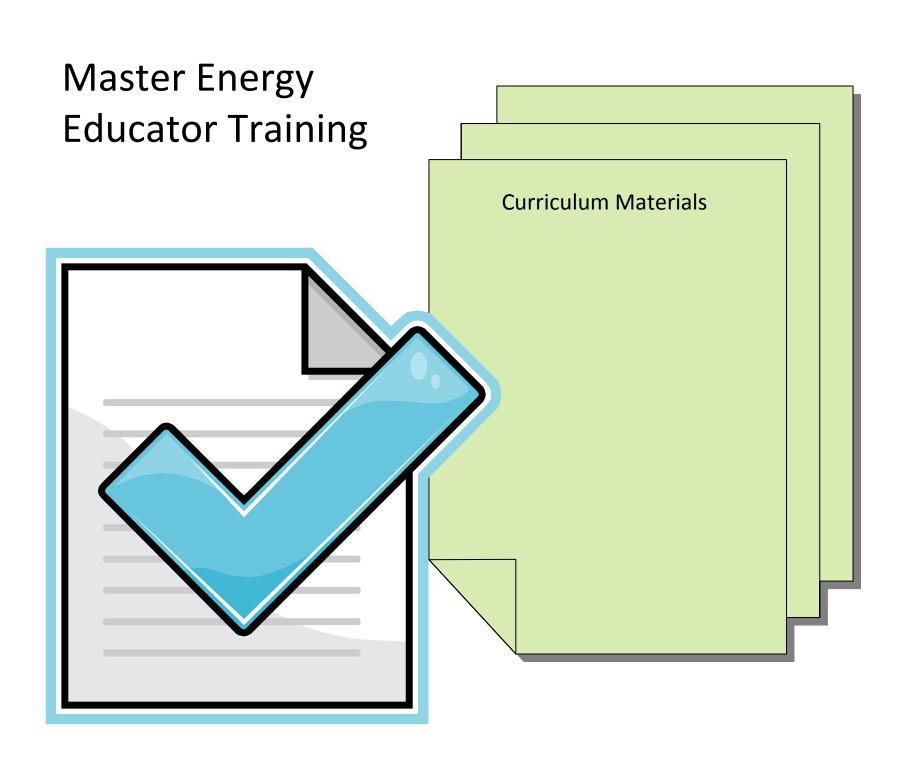






What are the next Farm Energy CoP priorities?





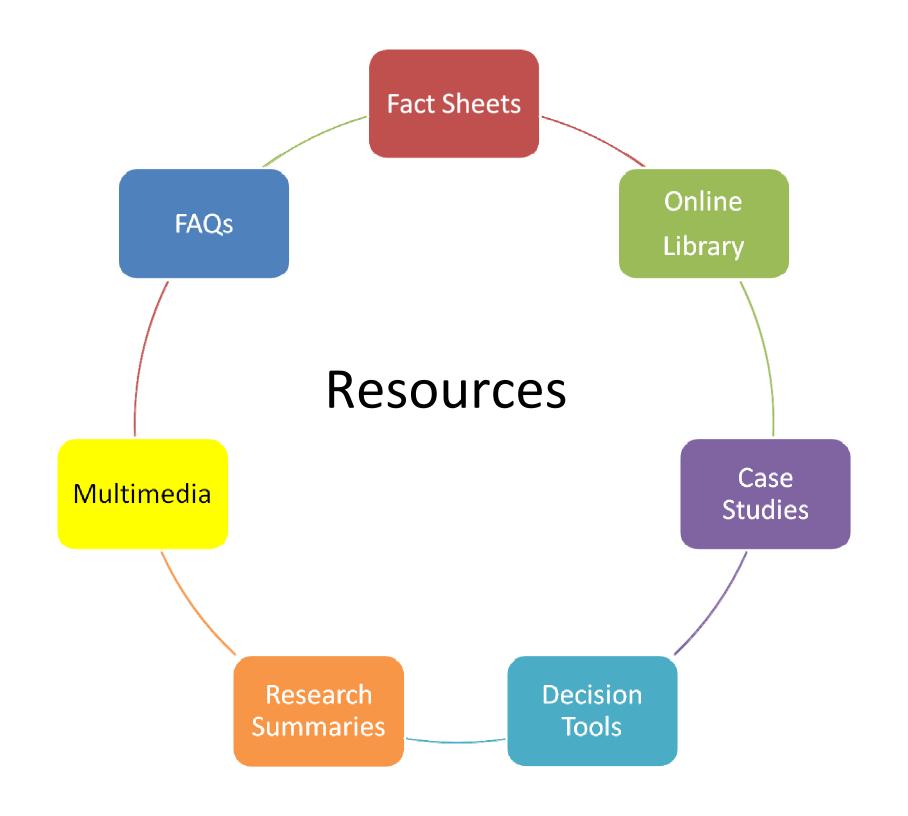
On-farm solar power





Ethanol





Farm Energy

Farm Energy is an information source for farmers and agricultural educators interested in all aspects of farm energy-from conservation and efficiency to renewable energy production. More...

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In This Resource Area

Introduction to Farm Energy Anaerobic Digestion Biodiesel Biomass Combustion Efficiency and Conservation Solar Energy Wind Power

Case Studies **Decision Tools** Legal Policy and Regulations Research Links Additional Resources

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How can I capture the value of energy in manure?

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What is the energy potential from manure produced by livestock?

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In The News.

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Renewable Energy and Efficiency Improvement Loans and Grants Available from USDA

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Introduction to Farm Energy

Last Updated: June 22, 2009 | Related resource areas: Farm Energy

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Table of Contents (Show)

Why Farm Energy?

In the last few years, interest in alternative energy and energy conservation has skyrocketed due to unstable fuel proces and desire to move toward renewable and sustainable energy sources. At the same time, technologies to conserve energy as well as convert feedstocks to biodiesel and ethanol have improved significantly.

Across America farms are generating their own energy using wind turbines, solar panels, or anaerobic digesters, with some selling the excess electricity back to the grid. Other producers are experimenting with on-farm biodiesel and ethanol production, or researching new energy-related crops and business opportunities in anticipation of developing cellulosic bioufuel technology and markets.

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Farm energy can generally be divided into:

- 1. Energy Conservation and Efficiency
- 2. Renewable Energy

Energy Conservation and Efficiency

Conserving energy and improving energy efficiency is not only good for the environment--it reduces dependence on fossil fuels and curbs greenhouse gas emissions--but also for the pocketbook, saving farmers money. Fifteen percent of agricultural production costs are energy related, according to the U.S. Department of Agriculture (USDA) – and as energy prices rise, these costs claim an ever-bigger portion of farm budgets. The quickest, cheapest and cleanest way to lower these costs, as well as cut non-renewable energy consumption, is by improving energy efficiency.



Resource Area Feeds

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In This Resource Area

Introduction to Farm Energy Anaerobic Digestion

Biodiesel

Biomass Combustion

Efficiency and Conservation

Biodiesel

Biomass Combustion

Efficiency and Conservation

Solar Energy

Wind Power

Case Studies

Decision Tools

Legal Policy and Regulations

Research Links

Additional Resources

FAQs

Images





Ways to be Involved The Wanted List

(co)Leaders & Team participants

Collaborate with other specialists!

Individuals

- Images
- Peer Review
- Links to Resources
- FAQs
- Case Studies
- Research Summaries
- Decision Tools

