



# University of Missouri Farm Energy Module

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# Fact Sheets

- Top Money-Saving Practices on Missouri Dairy Farms
- Top Money-Saving Practices on Missouri Poultry Farms
- Energy Conservation and Efficiency in Farm Shops
- Energy Efficiency and Farm Water Systems

# Information Obtained:

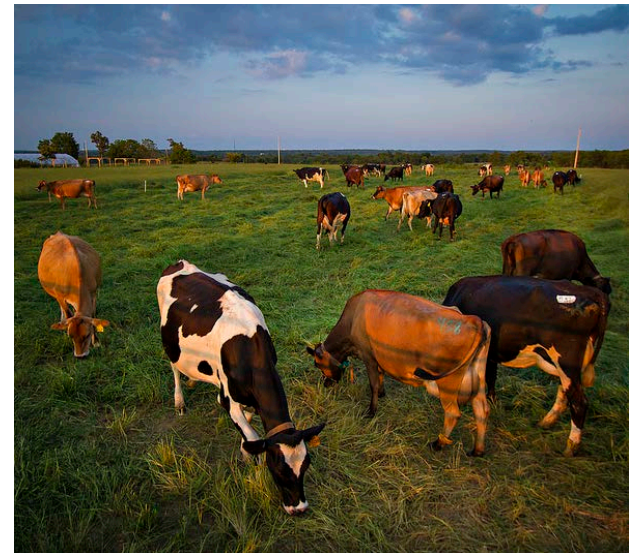
- MAESTRO Project (Missouri Agricultural and Energy Savings Team – A Revolutionary Opportunity.
- MAESTRO: Grant program focused Missouri's livestock producers.
- Provided cost-share assistance to implement energy efficient practices recommended in energy management plans.
- Energy savings captured - utilized in fact sheets.

# In each fact sheet:

- Energy audit process review.
- Is energy audit necessary?
  - Recently added equipment to farm?
  - New technological or industrial advancements that improve efficiency?
  - Has farming operation grown or expanded to include new property?
  - Opportunity to apply for financial assistance?
- Overall energy savings.

# Top Money-Saving Practices on Missouri Dairy Farms

- Dairy operations use substantial amount of energy to move and cool milk.
- Potential for substantial energy savings.
- Lighting retrofits.
- Water heating.
- Milk cooling.
- Milk harvest.



# Top Money-Saving Practices on Missouri Poultry Farms

- Closely-monitored environments: Large consumers of propane and electricity.
- Potential for large energy savings.
- Lighting.
- Radiant brood heaters.
- Insulation.



# Energy Conservation and Efficiency in Farm Shops

- Energy losses resemble those in homes but often overlooked.
- Low-cost energy savings.
  - Seal air leaks, turn heat down/off, turn off lights.
- Medium-cost energy savings.
  - Replace doors and windows, lighting.
- High-cost energy savings.
  - Replace heating system, add insulation.

# Energy Efficiency and Farm Water Systems

- Return can be fairly short for some energy-saving investments for water systems.
- General guidelines.
- Pump houses.
- Livestock watering systems.
- Solar water systems.
- Water heaters.







**Thank you!**

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