

# WELCOME

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*the*  
MINNESOTA  
PROJECT

# Farm Energy Auditing Course

- ❑ Attended on-demand webinars.
- ❑ Three on-site visits.
- ❑ Completed final Energy Audit on our project to obtain certification.

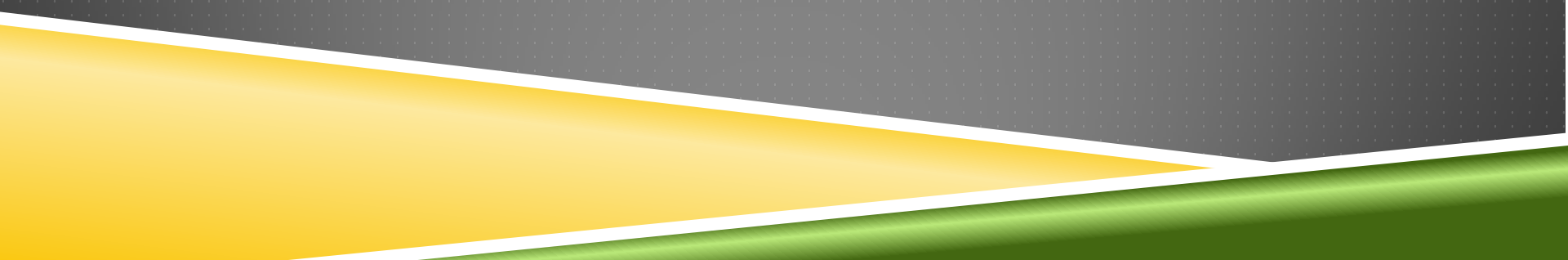
# Purpose of Farm Energy Audit

Energy efficiency is the implementation of technological upgrades or personal conservation practices that reduce the energy use of a given process without reducing the quality of the process itself.

\$\$\$ HOW CAN I SAVE MONEY \$\$\$



# Identifying Energy Efficiency Improvements on the Farm

- ❑ Dairy Operations
  - ❑ Grain Operations
  - ❑ Greenhouses
  - ❑ Swine Operations
  - ❑ Poultry Operations
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# On-site Visit #1 - Dairy Operations





# On-site Visit #2 - Grain Operations



# On-site Visit #3 Greenhouses





# \$\$\$ HOW CAN I SAVE MONEY \$\$\$

What is the biggest bang for your buck when upgrading equipment at a particular site.

- ❑ Dairy - Plate Cooler
  - Free Heater
  - Compressor Upgrades
  - Lighting Upgrades
  
- ❑ Grain – Dryer Upgrade
  - Motor Upgrades
  
- ❑ Greenhouse – Installation and Upgrade to G
  - Automatic Controls on Ventilation
  - Solar Installs
  - Lighting
  
- ❑ Swine – Automatic Micro Zone Controller
  
- ❑ Poultry – Upgrade to New LED Lighting System



# Low Cost/No Cost Energy Saving Upgrades

## Maintenance:

- Lubrication of bearings/chains
- Cleaning of fan blades
- Clean motor air intakes
- Check for proper belt wear and sizing
- Clean/wipe down light fixtures
- Relamp fixtures when needed
- Change filters when needed
- Close off any air leaks/replace weather stripping

Questions?