**Energy Remodeling Steps**

1. Convert Thermal loads to Electric
2. Energy Efficiency Measures
   - Insulation
   - Efficient lighting & motors
3. Renewable Energy & Controls

**WCROC Swine Production**
Renewable Energy & Efficiency Remodeling
Nursery, Farrowing & Finishing

**Typical Swine Systems**

**Energy Optimized Swine Systems**

Electricity
- Heating
- Ventilation
- Motors
- Augers

Thermal
- Heating
- Hot water

Solar PV
- Electricity

Electric Heat Pump
- Heating & Cooling

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