



Agricultural Energy Conservation

Your utility works to bring energy savings to the agriculture industry.



By saving energy, farmers, dairies, and ranchers may be able to reduce energy costs, increase irrigation uniformity, decrease the amount of water and fertilizer required, or potentially increase yield. Your utility offers the following rebates to farmers for eligible measures.

- Livestock waterers
- New high-efficiency irrigation pumps
- Variable Frequency Drives (VFDs)
- Irrigation hardware upgrades
- Low Elevation Spray Application (LESA)
- Irrigation pump testing
- Lighting
- Dairies
- Wineries



Ready to take the next step?

**Your utility
can help**

Call your local utility today to learn more about Agricultural energy-conservation and available incentives for energy-saving improvements.



Energy Conservation Measures

Energy-saving measures are eligible for incentives and deliver long-term savings, reduced consumption, and a return on investment.

Livestock Waterers

Do you take care of livestock during the winter months? An immersion tank heater uses a lot of electricity. Replace the tank with a non-electric tank, or add a thermostatically controlled outlet to limit tank-heater operation on freezing days, but still provide fresh water to your animals—and save electricity.

New High-Efficiency Irrigation Pumps

Some irrigation pumps may wear out, become less efficient over time, or be incompatible with your current irrigation system requirements. Installing a new more efficient pump restores and improves operation and saves energy. Installing a VFD saves even more.

VFDs

VFDs adjust water pump motor speed to match changing irrigation needs and control the frequency of electrical power that's supplied to your motor. Even small speed adjustments can create big energy savings, as much as 20 percent. You will also get greater precision and tighter control over water distribution and pressure, and help the pump match-flow requirements.

Irrigation Hardware Upgrades

New nozzles and gaskets provide more uniform water application and save energy. Making the switch is one of the easiest ways for you to start saving water and power.

Low Elevation Spray Application (LESA)

LESA can provide more uniform irrigation application for crops by lowering sprinkler heads closer to the ground. By reducing water evaporation overall pressure, you reduce energy and save money and water.

Irrigation Pump Testing

Pump testing can identify opportunities to increase the efficiency of a pumping plant and irrigation delivery system. This includes low-pressure conversion for center pivots and laterals, reducing friction losses in piping, and rebuilding or replacing pumps and trimming pump impellers.

Lighting

In addition to energy-cost savings of 25– 50 percent, LED lighting upgrades and controls can increase visual acuity and lighting equipment life, improve security, and may also improve worker safety, productivity, and quality of work.

Dairies

BPA supports utility incentives in dairies that include barn and area LED lighting, chiller improvements, and VFD applications on vacuum pumps.

Wineries

Many processing applications at wineries—including crushing, destemming, pumping, cooling, and fermenting—are ripe for energy improvements. Lighting upgrades, HVAC, pipe insulation, compressed air, VFDs, and refrigeration are all eligible opportunities for incentives.