

ENERGY WISE

for your Business



Prescriptive and custom rebates are available to members for the installation of energy efficient dairy equipment.

How Does it Work?

Meet with your cooperative's energy expert to set up a plan and they will recommend the best actions to make your farm more energy efficient.

Contact Us

If you have any questions or need assistance in making these savings a reality for your business; please contact your local energy expert at:



125 Minnesota Valley Electric Drive
Jordan, MN 55352
Phone: 952.492.2313
Toll-free: 800.282.6832
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DAIRY

Dairy Free Heater

A heat exchanger is installed on the bulk tank refrigeration system. The heat exchangers recover waste heat from refrigeration compressors, resulting in pre-heated water for cleaning and sanitizing milking equipment.

- Reduces cost of heating water by using waste heat from the refrigeration system.
- Increases water temperature recovery time.

Dairy Plate Cooler

Milk cooling is the largest energy expenditure on a dairy farm and is vital to milk quality. A dairy plate cooler pre-cools warm milk before it enters the bulk tank by utilizing a heat exchanger that extracts heat from the milk using cool well water. When the pre-cooled milk enters the bulk tank, the refrigeration compressor finishes cooling the milk.

- The dairy plate cooler reduces run time on the refrigeration compressor, saving energy and money.
- If a refrigeration compressor is operating near maximum cooling capacity, adding a less expensive plate cooler could increase cooling capacity and increase total milk production.

Milk Pump (VSD)

A VSD produces a steady flow of milk through the plate cooler and optimizes cooling. Reducing the run time of the bulk tank compressor when a plate cooler is used in conjunction with a milk pump VSD results in approximately 30% in energy savings. This improved performance:

- Reduces cooling costs in the bulk tank
- Helps maintain milk quality
- Helps reduce the temperature of the milk entering the bulk tank to within 4° F of the incoming cold water temperature.

Robotic Milking Systems (RMS)

Robotic milking combines a milking stall, computerized milking machine, robotic arm assembly, milking pump, teat identification, cleaning equipment, steam cleaning, and a feed dispenser all in one stall. Each stall can milk an average of 55-65 cows per day.

- Information and connectivity
- Increased milk production
- Efficient labor management

Vacuum Pump VSD

Milking vacuum pumps are sized to deliver the required maximum vacuum level to operate the milking and washing systems. The VSD determines exactly how much vacuum the system requires and regulates the speed of the pump. The result is a pump that runs at a much lower speed most of the time and requires substantially less electricity to do the job.

Rebate Overview

Equipment Type	Rebate Amount
Dairy free heater	\$2/cow
Dairy plate cooler	\$2/cow
Milk Pump VSD	\$2/cow
Robotic milking system (RMS)	\$5,000/stall
Vacuum Pump VSD	\$20/hp

DAIRY

Rebate Application



Business Member Information:

Name _____ Account # _____
Address _____
City _____ State _____ ZIP _____ Phone _____

Rebate Recipient:

To release the rebate incentive check to an alternate party other than the cooperative business member, the member must specify an alternative mailing address and authorize with a signature below.

Please Send Rebate to (check one): Business Member Alternative Recipient

Recipient Name _____
Address _____
City _____ State _____ ZIP _____ Phone _____
Contact Name _____

Application Check List:

Rebate application with signature Itemized project invoices (labor & materials) Equipment specifications

Dairy Rebates

Equipment	# of Cows	(\$/cow/day)	# of lbs milked per cow/day	Project Cost	Total Rebate
Dairy Plate Cooler					
Free Heater					

Equipment	# of stalls	(\$/stall)	Project Cost	Total Rebate
Robotic Milking				

Equipment	Horsepower	\$/horsepower	Project Cost	Total Rebate
Vacuum Pump VSD				
Milk Pump VSD				

Warranty Information:

Rebate qualifications do not imply any representation or warranty of such equipment, design or installation by the cooperative. The cooperative shall not be responsible or liable for any personal injury or property damage caused by this equipment. The cooperative does not guarantee that a specific level of energy or cost savings will result from the implementation of energy conservation measures or the use of products funded under this program. In no event shall the cooperative be liable for any incidental or consequential damages.

Additional Program Rules:

1. Evaluation must be complete before funds will be issued for the rebate.
2. Members and vendors must submit itemized equipment invoices, along with rebate application and worksheet, to the cooperative. To ensure that the equipment installed meets the cooperative's performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, as well as information regarding the manufacturer and model numbers for all equipment included in the rebate.
3. Rebates must be applied for within 12 months of invoice date.
4. The cooperative reserves the right to conduct random inspections of installations.
5. Project must comply with all program specific rules and qualifications.
6. The member is responsible for checking with the cooperative to determine funding availability and to verify program parameters.
7. The rebate shall not exceed 50% of materials cost OR project cost up to \$5,000 per member.

Member Signature:

The undersigned does hereby certify that the undersigned is solely responsible for the accuracy of the information contained in this application. All rules of the program have been followed and the installation is complete. The undersigned acknowledges that nothing contained in the application imposes any liability on the cooperative for the work performed and information presented by the member, member's engineer, contractor, or vendor. The undersigned also authorized payment of incentive directly to the specified rebate recipient.

Rebate applications due no later than November 20, 2020.

Member Signature _____ Date _____