

Dairy-Free Heater  
2011 Rebate Application



Agralite Electric Cooperative, 320 E. Highway 12, Benson, MN 56215, Ph: (320) 843-4150

**Business Member Information**

Company name \_\_\_\_\_  
Billing address \_\_\_\_\_ Phone \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Installation address \_\_\_\_\_  
(if different from above)  
Account number \_\_\_\_\_  
Contact name \_\_\_\_\_ Phone \_\_\_\_\_  
Email \_\_\_\_\_

**Vendor Information**

Vendor name \_\_\_\_\_  
Vendor address \_\_\_\_\_  
City, State, ZIP \_\_\_\_\_  
Vendor Contact Name \_\_\_\_\_ Phone \_\_\_\_\_  
Email \_\_\_\_\_

The undersigned does hereby certify that 1) The undersigned, and not the cooperative, is solely responsible for the accuracy of the information contained in this application, 2) all rules of the Dairy-Free Heater Rebate program have been followed, and 3) the installation is complete. Further, the undersigned acknowledges that nothing contained in the application shall impose any liability on the cooperative for the work performed and information presented by the member's engineer, contractor or vendor. Agralite Electric Cooperative will be referred to hereafter in this application as "the cooperative".

Member signature \_\_\_\_\_ Date \_\_\_\_\_

**How to Apply for This Rebate**

1. Fill out this rebate application. All information needs to be supplied before a rebate check can be issued. Please note all warranty information, rules, and qualifications on the rules and information tabs of this form.
2. Complete and sign rebate forms. Mail or fax pages to Agralite Electric Cooperative.
3. Call with questions.

Application # \_\_\_\_\_

## **Dairy-Free Heater 2011 Rebate Application**

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### **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.

### **Other Important 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. The cooperative reserves the right to conduct random inspections of installations.
4. The member is responsible for checking with the cooperative to determine whether funding is available and to verify program parameters.
5. Rebate must comply with all program specific rules and qualifications.
6. The maximum rebate amount shall be the lesser of 50% of the project cost or \$100,000.
7. Qualifying members must apply for 2011 rebates no later than November 30, 2011.

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### Existing System Description (E)

Describe the existing system in terms of demand and energy requirements, efficiency, operating hours and the number of units being replaced. This data may be supplied in terms of production. Include supporting documentation and specifications as attachments as required.

Cows milked/day	0	
Gallons of hot water used per day (typically 1-3 gal/cow/day).	0	
Temperature setting of electric water heater (°F)	160	
Well water temperature	47	
Milk production of herd in lbs/day. <span style="float: right;"><i>Enter lbs.milk/cow/day</i></span>	60	
Energy Factor (EF) electric water heater	0.88	
Water heater kW*	0	
Water heater gallons*	0	

Energy required to heat water with electric water heater		
Electric water heater	kWh/yr	
0.00	-	

\* if multiple water heaters provide total kW / gallons

Project Type (E)	Maximum Demand (kW)	Summer Coincidental Demand (kW)	Annual Energy (kWh)
Standard refrigerated bulk tank cooler	Total -	-	-

### New System Description (N)

Describe the new system in terms of demand and energy requirements, efficiency, operating hours and the number of units being replaced. This data may be supplied in terms of production. Include supporting documentation and specifications as attachments as required.

Install refrigeration waste heat exchanger (fre-heater) which reduces energy required for heating water by extracting waste heat from milk bulk tank refrigeration system

New water heating energy	-	kWh/yr
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Project Type (N)	Maximum Demand (kW)	Summer Coincidental Demand (kW)	Annual Energy (kWh)
Dairy Free heater (refrigeration heat recovery)	Total -	-	-

<b>Estimated Project Savings:</b>	-	-	-
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**Worksheet Instructions: Enter required data in shaded area only.**

**Environmental Assurances**

Describe how hazardous wastes which may result from this project will be handled:

**Power Quality**

Does the project meet power quality requirements:

Power Factor: yes / no Harmonic Distortion: yes / no

If "yes" in either case, the cooperative should have a copy of the specification sheets on file at their office.

**Removed Equipment**

Describe how removed equipment will be made inoperable.

**Trade Allies (contractor or supplier performing the work)**

<b>Name</b>			
<b>Address</b>			
<b>City, State, ZIP</b>		<b>Phone</b>	

**Demand & Energy Savings Calculations**

Summer Coincidental Demand Savings:	kW(E) - kW(N) =	_____	kW
Average Demand Savings:	kW(E) - kW(N) =	_____	kW
Average Annual Energy Savings:	kWh(E) - kWh(N) =	_____	kWh

Estimated Annual Demand Savings:

_____ kW	\$ _____	/ kW	x _____	=	\$ _____
	Demand Rate - \$/kW		Months		

_____ kW	\$ _____	/ kW	x _____	=	\$ _____
	Demand Rate - \$/kW		Months		

(Second line - two tier or seasonal rates)

**Total Demand Cost Savings** \$ \_\_\_\_\_

Estimated Annual Energy Savings:

_____ kWh/month	\$ _____	/ kWh	x _____	=	\$ _____
	Annual kWh / 12		Energy Rate - \$/kWh		Months

_____ kWh/month	\$ _____	/ kWh	x _____	=	\$ _____
	Annual kWh / 12		Energy Rate - \$/kWh		Months

(Second line - two tier or seasonal rates)

**Total Energy Cost Savings** \$ \_\_\_\_\_

**Estimated Total Savings:** \$ \_\_\_\_\_

*(Enter required data in shaded area only)*

<b>Enter Total Project Cost:</b>	\$ _____	<i>(Incremental Cost: Standard vs. High Efficient)</i>
<b>Enter Requested Rebate Amount:</b>	\$ _____	<i>(Maximum rebate amount shall be the lesser of 50% of the project cost or \$100,000 [\$150,000 for retrofit projects with prior approval].)</i>
<b>Benefit Cost Ratio:</b>	_____	<i>(Must be ≥ 2.00 - Increase BCR to meet all criteria)</i>
<b>After Rebate Project Cost:</b>	\$ _____	
<b>Simple Payback After Rebate (yrs)</b>	_____	<i>(SPB Must &gt; 1 yr.)</i>