

Hog Farrowing  
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 Hog Farrowing 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 # \_\_\_\_\_

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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. Installation must be complete before rebate funds will be issued.
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 lamps, ballasts and fixtures 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. The maximum rebate amount shall be the lesser of 50 percent of the project cost or \$100,000.
6. 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.

Hog farrowing facility. Manual temperature controlled crates. Crate heating system includes heat lamp(s) and physical height adjustment to control intensity of heat radiating from lamp. The higher or farther the lamps are from the pigs, the lower the intensity of the heat. Less heat is needed as the pigs grow.  
Energy output is constant over the course of the farrowing period.

Farrowing Rooms	0
Total lamp quantity	0
Lamp Wattage	0
Operating days / yr	0
Operating hours / day	24
Total kW	0
Total kWh	0

Project Type (E)	Maximum Demand	Summer Coincidental Demand	Annual Energy
Manual farrowing temp control	-	-	-
	(kW)	(kW)	(kWh)

### 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.

Automated temperature controls for hog farrowing facility.  
Automated temperature control for pig farrowing facility. Control system automatically adjust the heating requirements of the farrowing crates based on the growth rate of the infant pigs or "piglets".  
The control reduces the power to the heat lamp by trimming the sine wave. Overall energy savings are achieved over the course of the piglets growth cycle. Then begins again with the new born batch of pigs.

Farrowing Rooms	0	Total kW winter mths w/ control	0.00
Total lamp quantity	0	Total kW summer mths w/ control	0.00
Lamp Wattage	0	Total kWh / year	0
Operating days / yr	0		
Operating hours / day	24		

Project Type (N)	Maximum Demand	Summer Coincidental Demand	Annual Energy
automated farrowing temp control	-	-	-
	(kW)	(kW)	(kWh)

<b>Estimated Energy 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)							<b>Total Demand Cost Savings</b>	\$ -

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)							<b>Total Energy Cost Savings</b>	\$ -

**Estimated Total Savings: \$ -**

(Enter required data in shaded area only)

<b>ENTER Total Project Cost</b>	\$ -	(Incremental Cost: Standard vs. High Efficient)
<b>ENTER requested rebate amount</b>	\$ -	(The maximum rebate amount shall be the lesser of 50% of the project cost or \$100,000 [\$150,000 for retrofit projects with prior approval from GRE]).
<b>Benefit Cost Ratio</b>		(Must be ≥ 2.00 - Increase BCR to meet all criteria)
<b>After rebate project cost</b>	\$ -	(Project cost - Rebate amount requested)
<b>Simple Payback after rebate (yrs)</b>		(SPB Must > 1 yr. Total Savings / After rebate project cost)

Agralite Electric Cooperative Representative

Date