



Application # _____

**Commercial, Industrial & Agricultural
Hog Farrowing Energy Grant
2011 Rebate Application**

**Federated Rural Electric, ATTN: Jon
77100, US Highway 71 South, PO Box 69, Jackson MN 56143, (507) 847-3520
info@federatedrea.coop**

Business Name: _____

Mailing Address: _____ **Phone** _____

City _____ **State** _____ **Zip** _____

Installation Address: _____
(if different from above)

Location Number: _____ **Member Number:** _____

Contact Name: _____ **Phone** _____

Email Address: _____

VENDOR INFORMATION

Vendor Name: _____

Mailing Address: _____

City, State, ZIP: _____

Vendor Contact Name: _____ **Phone:** _____

The undersigned does hereby certify that 1) The undersigned, and not Federated Rural Electric, is solely responsible for the accuracy of the information contained in this application, 2) all rules of the 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 Federated Rural Electric for the work performed and information presented by the customer's engineer, contractor, or vendor.

Warranty Information

Rebate qualifications do not imply any representation or warranty of such equipment, design, or installation by Federated Rural Electric. Federated Rural Electric shall not be responsible or liable for any personal injury or property damage caused by this equipment. Federated Rural Electric 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 Federated Rural Electric be liable for any incidental or consequential damages.

Other Important Program Rules

1. Installation must be complete before funds will be issued for the rebate.
2. Customers and vendors must submit itemized equipment invoices along with rebate applications, and worksheet to Federated Rural Electric. To ensure that the equipment installed meets Federated Rural Electric performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, and information regarding the manufacturer and model numbers for all equipment included in the rebate.
3. Federated Rural Electric reserves the right to conduct random inspections of installations.
4. The customer is responsible for checking with Federated Rural Electric to determine whether funding is available and to verify program parameters.
5. Rebate must comply with all program specific rules and qualifications (see complete list of rebate specific rules).
6. Qualifying customers must apply for Year 2010 rebates no later than November 30, 2010.

Customer Signature: _____ **Date:** _____



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Qualifying Customers

This program is applicable to the commercial, industrial and agricultural customers of Federated Rural Electric.

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Other Important Program Rules

1. The Custom Energy Rebate application must be pre-approved by Federated Rural Electric and Great River Energy.
2. Installation must be complete before rebate funds will be issued.
3. Customers and vendors must submit itemized equipment invoices along with rebate applications and worksheets to Federated Rural Electric. To ensure that the equipment installed meets Federated Rural Electric performance standards, these invoices must itemize labor charges, quantity and price of the equipment installed, and information regarding the manufacturer and model numbers for all equipment included in the rebate.
4. Describe the existing and new equipment/systems in terms of demand and energy requirements; operating hours, number of units, and any other baseline data pertinent to the efficiency characteristics of the equipment/system.
5. Member Cooperatives are to consult with GRE staff to arrive at a Benefit-Cost-Ratio (BCR) that will determine a rebate amount which is provides cost effective energy savings for the specific project and equipment type.
6. Federated Rural Electric reserves the right to conduct random inspections of installations.
7. The customer is responsible for checking with Federated Rural Electric to determine whether funding is available and to verify program parameters.
8. 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).
9. Qualifying customers must apply for Year 2010 rebates no later than November 30, 2010.



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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)
Estimated Energy Savings:	-	-	-



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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 Federated Rural Electric 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)

Name			
Address			
City, State, ZIP		Phone	

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)

ENTER Total Project Cost: \$ - *(Incremental Cost: Standard vs. High Efficient)*

ENTER requested rebate amount: \$ - *(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]).*

Benefit Cost Ratio: #DIV/0! *(Must be ≥ 2.00 - Increase BCR to meet all criteria)*

After rebate project cost: \$ - *(Project cost - Rebate amount requested)*

Simple Payback after rebate (yrs) #DIV/0! *(SPB Must > 1 yr. Total Savings / After rebate project cost)*

GRE Representative use only
Initial:
Date:

Federated Rural Electric Representative

Date