

# CONSERVATION & ENERGY EFFICIENCY PROGRAM

## MOTOR & VFD MEASURES FOR BUSINESS CUSTOMERS

The following information is provided as part of an incentive program to encourage non-residential customers to select and install energy efficient equipment for their facilities. This program is brought to you by participating municipalities and cooperative members of Minnkota Power Cooperative, Inc. and the Northern Municipal Power Agency.

### Instructions for Use:

*For complete instructions, please refer to the Terms and Conditions, on page 7.*

**Step 1: Determine Eligibility.** Equipment must be new and installed in a facility served by one of the participating municipal or cooperative utilities listed below:

<input type="checkbox"/> Bagley Public Utilities	<input type="checkbox"/> Hawley Public Utilities	<input type="checkbox"/> Roseau Municipal Utilities
<input type="checkbox"/> Baudette Municipal Utilities	<input type="checkbox"/> North Star Electric Cooperative	<input type="checkbox"/> Stephen Municipal Utilities
<input type="checkbox"/> Beltrami Electric Cooperative	<input type="checkbox"/> PKM Electric Cooperative	<input type="checkbox"/> Thief River Falls Municipal Utilities
<input type="checkbox"/> Clearwater-Polk Electric Cooperative	<input type="checkbox"/> Red Lake Electric Cooperative	<input type="checkbox"/> Warren Municipal Utilities
<input type="checkbox"/> Fosston Municipal Utilities	<input type="checkbox"/> Red River Valley Cooperative Power Association	<input type="checkbox"/> Wild Rice Electric Cooperative
<input type="checkbox"/> Halstad Municipal Utilities	<input type="checkbox"/> Roseau Electric Cooperative	

**Step 2: Install Equipment.** New equipment must be installed and old equipment removed. Only new products, which are exact product types listed in this form are eligible for prescriptive incentives. If the potential incentive is greater than \$10,000, contact the utility to get pre-approval.

**Step 3: Complete and sign the application.** Forms must be received within 60 days of installation. Incomplete applications will cause delays in payment.

**Step 4: Attach the following documentation:**

- Itemized invoices including costs for equipment installed and installation labor.
- Specification sheets for lamps, ballasts and fixtures installed.

**Step 5: Mail completed paperwork to your utility.** Addresses are on page 2.

This is a joint offering from participating utilities of the Minnkota Power Cooperative, Inc. (MPC) and the Northern Municipal Power Agency (NMPA). MPC is a regional generation and transmission cooperative serving 11 member-owner distribution cooperatives. Minnkota's service area of 34,500 square miles is located in eastern North Dakota and northwestern Minnesota. NMPA is comprised of 12 municipal utilities in eastern North Dakota and northwestern Minnesota.

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## MOTOR & VFD MEASURES FOR BUSINESS CUSTOMERS

### PARTICIPATING COOPERATIVE UTILITIES

**Beltrami Electric Cooperative**

P.O. Box 488  
Bemidji, MN 56619-0488  
(218) 444-2540 or 1-800-955-6083, (218) 444-3676 (fax)

**Clearwater-Polk Electric Cooperative**

315 N. Main Ave.  
Bagley, MN 56621-1001  
(218) 694-6241 or 1-888-694-3833, (218) 694-6245 (fax)

**North Star Electric Cooperative**

441 Street Hwy. 172 N.W.  
P.O. Box 719  
Baudette, MN 56623-0719  
(218) 634-2202 or 1-888-634-2202, (218) 634-2203 (fax)

**PKM Electric Cooperative**

406 N. Minnesota Street  
Warren, MN 56762-0108  
(218) 745-4711 or 1-800-552-7366, (218) 745-4713 (fax)

**Red Lake Electric Cooperative**

P.O. Box 430  
Red Lake Falls, MN 56750-0430  
(218) 253-2168 or 1-800-245-6068, (218) 253-2630 (fax)

**Red River Valley Cooperative Power Association**

P.O. Box 358  
Halstad, MN 56548-0358  
(218) 456-2139 or 1-800-788-7784, (218) 456-2102 (fax)

**Roseau Electric Cooperative**

1107 Third Street N.E.  
Roseau, MN 56751-0100  
(218) 463-1543 or 1-888-847-8840, (218) 463-3713 (fax)

**Wild Rice Electric Cooperative**

P.O. Box 438  
Mahnomon, MN 56557-0438  
(218) 935-2517 or 1-800-244-5709, (218) 935-2519 (fax)

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### PARTICIPATING MUNICIPAL UTILITIES

**Bagley Public Utilities**

P.O. Box M  
Bagley, MN 56621  
(218) 694-2300, (218) 694-6632 (fax)

**Baudette Municipal Utilities**

P.O. Box 548  
Baudette, MN 56623  
(218) 634-2432, (218) 634-9777 (fax)

**Fosston Municipal Utilities**

220 East 1<sup>st</sup> Street  
Fosston, MN 56542  
(218) 435-1737, (218) 435-1961 (fax)

**Halstad Municipal Utilities**

405 2<sup>nd</sup> Ave. West  
Halstad, MN 56548  
(218) 456-2128, (218) 456-2018 (fax)

**Hawley Public Utilities**

P.O. Box 69  
Hawley, MN 56549  
(218) 483-3331, (218) 483-3332 (fax)

**Roseau Municipal Utilities**

1198 Center Street West  
Roseau, MN 56751  
(218) 463-2351, (218) 463-1231 (fax)

**Stephen Municipal Utilities**

P.O. Box 630  
Stephen, MN 56757  
(218) 478-3614, (218) 478-3806 (fax)

**Thief River Falls Municipal Utilities**

P.O. Box 528  
Thief River Falls, MN 56701  
(218) 681-5816, (218) 681-8225 (fax)

**Warren Municipal Utilities**

120 East Bridge Ave.  
Warren, MN 56762  
(218) 745-5343, (218) 745-5344 (fax)



# CONSERVATION & ENERGY EFFICIENCY PROGRAM

## MOTOR & VFD MEASURES FOR BUSINESS CUSTOMERS

B. Variable Frequency Drives						
Incentives under this program are not available for replacement VFDs.						
The equipment below is (check one): <input type="checkbox"/> New Equipment <input type="checkbox"/> Retrofit Equipment						
VFD HP*	Make/Model or Catalog #	Qty	Incentive	Annual Operating Hrs (Minimum of 1500)	Date Installed & Operable (mm/yy)	Total Incentive
			\$40.00/hp			
			\$40.00/hp			
			\$40.00/hp			
			\$40.00/hp			
<b>Subtotal</b>						

\* VFD horsepower is the lesser of the VFD nominal horsepower and the motor nominal horsepower  
 Maximum incentive cannot exceed 75% of the total equipment cost.  
 Drives must be used in pumping or air handling applications. Motors and pumps or fans, must operate a minimum of 1500 hours annually to be eligible. Qualifying projects must have a true power factor of 0.90 or greater and should include a line reactor between the power source and the drive with a reactor rating of not less than 3% impedance of the VFD rating. Incentives will be paid for the installation of new variable frequency drives on existing fan and pump systems and process equipment. The replacement of a variable frequency drive does not qualify for this program. Variable frequency drives that are provided on new packaged HVAC equipment do not qualify. Redundant or backup units do not qualify. VFDs must be automatically controlled by a variable signal, and have load diversity that will result in savings through motor speed variation. The pump or air handling system may not exceed 400 horsepower. VFDs in new construction projects do not qualify over 50 horsepower.  
 If you purchased Variable Frequency Drive Fans and Pumps in combination, also fill out the appropriate table in Section B for each unit to receive a combined incentive.

Summary of Incentives	
A. Subtotal	\$
B. Subtotal	\$
Total Incentive:	\$

### Certifications and Signature

I hereby certify that: 1. The information contained in this application is accurate and complete; 2. All installation is complete and the unit(s) is operational prior to submitting application; and 3. All rules of this incentive program have been followed. 4. I have read and understand the terms and conditions included with this document.

I agree to verification of equipment installation, which may include a site inspection by a program or utility representative. I understand that I am not allowed to receive more than one incentive from this program on any piece of equipment. I hereby agree to indemnify, hold harmless and release the utility from any actions or claims in regard to the installation, operation and disposal of equipment (and related materials) covered herein, including liability from any incidental or consequential damages.

Signature	Print Name	Date Equipment Installed
		Date Submitted

### Program Use Only

Date Received:	Post Inspected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Incentive Approved <input type="checkbox"/> Yes <input type="checkbox"/> No Amount: \$	Date Approved:
Utility or Program Representative:			
Joint Program Tracking #			

# CONSERVATION & ENERGY EFFICIENCY PROGRAM

## MOTOR & VFD MEASURES FOR BUSINESS CUSTOMERS

NEMA Premium® Motor Nominal Efficiency Requirements			
(HP)	Open Drip-Proof (ODP) 600 volts or less (random wound)		
	NEMA Premium Efficiency		
	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77.0
1.5	86.5	86.5	84.0
2	87.5	86.5	85.5
3	88.5	89.5	85.5
5	89.5	89.5	86.5
7.5	90.2	91.0	88.5
10	91.7	91.7	89.5
15	91.7	93.0	90.2
20	92.4	93.0	91.0
25	93.0	93.6	91.7
30	93.6	94.1	91.7
40	94.1	94.1	92.4
50	94.1	94.5	93.0
60	94.5	95.0	93.6
75	94.5	95.0	93.6
100	95.0	95.4	93.6
125	95.0	95.4	93.6
150	95.4	95.8	95.0
200	95.4	95.8	95.0

(HP)	Totally Enclosed Fan Cooled (TEFC) 600 volts or less (random wound)		
	NEMA Premium Efficiency		
	1200 RPM	1800 RPM	3600 RPM
1	82.5	85.5	77.0
1.5	87.5	86.5	84.0
2	88.5	86.5	85.5
3	89.5	89.5	86.5
5	89.5	89.5	88.5
7.5	91.0	91.7	89.5
10	91.0	91.7	90.2
15	91.7	92.4	91.0
20	91.7	93.0	91.0
25	93.0	93.6	91.7
30	93.0	93.6	91.7
40	94.1	94.1	92.4
50	94.1	94.5	93.0
60	94.5	95.0	93.6
75	94.5	95.4	93.6
100	95.0	95.4	95.0
125	95.0	95.8	95.0
150	95.8	96.2	95.4
200	95.8	96.2	95.8

# CONSERVATION & ENERGY EFFICIENCY PROGRAM

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### Terms and Conditions

1. Incentive Offer: Projects must be implemented (completed) by **December 31, 2009**. An original signed application and invoices for materials and labor must be delivered to the participating utility at the address located on page 2 of this application **within 60 calendar days of installation (completion)**. Please keep a copy for your records.
2. Proof of Purchase: This application must have complete information and be submitted with an invoice itemizing the **new equipment purchased and the manufacturer (OEM) specification sheets**. The invoice must indicate date of purchase, size, type, make, model and total project cost.
3. Compliance:
  - a. All projects are expected to comply with federal, state and local codes.
  - b. All equipment must be new or retrofitted with new components per the program specifications. Used or rebuilt equipment is not eligible for incentives. Existing equipment must be removed or permanently disconnected.
  - c. Equipment must meet specification requirements and be purchased and operating prior to submitting an incentive application.
  - d. Customers may only receive one incentive per piece of qualifying equipment.
  - e. If the project is in a leased building, the term of the lease must be at least five (5) years.
4. Payment: Once completed paperwork is submitted, incentive payments are usually made within 45 calendar days. Incomplete applications will either delay payments or be denied. The participating utilities reserve the right to refuse payment and participation if the customer or contractor violates program rules and procedures. All projects exceeding \$10,000 of incentives will be inspected prior to incentive payment.
5. Inspection: Program staff may conduct an inspection of the facility to survey installed projects.
6. Publicity: The participating utilities reserve the right to publicize your participation in this program, unless you specifically request otherwise.
7. Program Discretion: Incentives are available on a first-come, first-served basis. This incentive is subject to change or termination without notice at the discretion of the participating utilities.
8. Logo Use: Customers or allies may not use the participating utilities' name or logo in any marketing, advertising or promotional material without written permission.
9. Disclaimers: The participating utilities
  - a. Do not endorse any particular manufacturer, product, labor or system design by offering these programs;
  - b. Will not be responsible for any tax liability imposed on the customer as a result of the payment of incentives;
  - c. Do not expressly or implicitly warrant the performance of installed equipment or contractor's quality of work (contact your contractor for detailed warranties);
  - d. Are not responsible for the proper disposal/recycling of any waste generated as a result of this project;
  - e. Are not liable for any damage caused by the installation of the equipment or for any damage caused by the malfunction of the installed equipment.

### INCENTIVE LIMIT:

Purchase and install qualifying equipment and receive an energy efficiency incentive of up to \$15,000 per customer, per calendar year. An incentive exceeding \$10,000 must receive written approval BEFORE project installation. Total incentive not to exceed 75 percent of the project cost. If self-installed, incentives for measures can be up to the purchase price of a specific measure, but shall not exceed the incentives set by Minnkota Power Cooperative, Inc. and the Northern Municipal Power Agency for each measure.

### ELIGIBILITY:

These incentives are offered by the member utilities of Minnkota Power Cooperative, Inc. and the Northern Municipal Power Agency. For questions regarding eligibility, call your local utility listed on page 2.