



Motor and Drive Efficiency

Drive rebate application

For invoices dated on or after March 1, 2017

Business customer information

Company name _____ Date submitted _____

Billing address _____ City _____ State _____ ZIP _____

Installation address (if different) _____ City _____ State _____ ZIP _____

Contact name (print) _____ Phone _____ Email* _____

Xcel Energy electric premises number _____

Please provide the information as it relates to the motor's installation location.

Industrial/manufacture – Select only if the motor is used and installed at a facility that makes or produces a product.

Commercial – If selected, please identify which of the following best reflects the commercial building type where your motor is located. (check one)

| | | | | |
|---|---|--|---|--|
| <input type="checkbox"/> College/university – education | <input type="checkbox"/> Grocery/superstore – store | <input type="checkbox"/> Hospital | <input type="checkbox"/> Office | <input type="checkbox"/> Retail outlet/ mall type facility |
| <input type="checkbox"/> K-12 school – education | <input type="checkbox"/> Healthcare/nursing/ alternative care living facility | <input type="checkbox"/> Hotel/motel/ residence inn facility | <input type="checkbox"/> Restaurant/fast food/casual/ bar and grill type facility | <input type="checkbox"/> Warehouse/ distribution center |

Customer signature _____ **Date** _____

Customer hereby certifies that: 1. the customer, and not Xcel Energy, is solely responsible for the accuracy of the information contained in this application; 2. all installation is complete and operational prior to submitting rebate; and 3. all rules of this Xcel Energy program have been followed. Further, the customer acknowledges that participation in this rebate program shall impose no liability on Xcel Energy. Xcel Energy shall not be liable for the work performed by the customer's engineer, contractor, or vendor. 4. The customer understands that their company related information may be shared with stakeholders. 5. The undersigned and Xcel Energy agree that Xcel Energy may make an agreement by electronic means and that such agreements are authentic and valid, and have the same legal effect as agreements entered into on paper.

Alternative rebate recipient

Note: Complete this section only if the customer wants the rebate check to go to someone other than the company tied to the account number:

Company name _____ Contact name _____ Phone _____

Address _____ City _____ State _____ ZIP _____

I authorize the above company to receive the rebate check for this project.

Customer signature _____ **Date** _____

Contractor information

Contractor/vendor name _____ Contact name _____

Contractor address _____ City _____ State _____ ZIP _____

Phone _____ Email* _____

*By providing your e-mail address, you are granting Xcel Energy permission to send further e-mails regarding our programs and services.

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Drive rebate offer

| Requirements for prescriptive VFD rebates | | |
|---|---|--|
| For these systems | ... controlled equipment must be | ... and must be in these situations. |
| HVAC systems in existing buildings | Fans, including VAVs (centrifugal or axial) | Retrofit or failed-VFD replacement |
| | Single-stage centrifugal pumps | Retrofit or failed-VFD replacement for closed-loop systems, supply for evaporative condenser, cooling tower spray or tower circulating pumps |
| HVAC systems in new construction buildings | Fans, including VAVs (centrifugal or axial) | Must be ≤ 5 hp |
| | Single-stage centrifugal pumps | Must be ≤ 50 hp and for closed-loop systems, supply for evaporative condenser, cooling tower spray or tower circulating pumps. |
| Non-HVAC systems (with the exception of water well pumps) | Centrifugal fans and centrifugal blowers | Retrofit or failed-VFD replacement |
| | Single-stage centrifugal pumps | Retrofit or failed-VFD replacement |

| Motor HP | Prescriptive rebate levels |
|-----------------|--|
| 1 | \$400 |
| 1.5 | \$500 |
| 2 | \$500 |
| 3 | \$600 |
| 5 | \$900 |
| 7.5 | \$1,130 |
| 10 | \$1,350 |
| 15 | \$1,800 |
| 20 | \$2,300 |
| 25 | \$2,750 |
| 30 | \$3,200 |
| 40 | \$4,000 |
| 50 | \$4,900 |
| 60 | \$5,600 |
| 75 | \$6,600 |
| 100 | \$7,700 |
| 125 | \$8,600 |
| 150 | \$9,500 |
| 200 | \$10,500 |
| Larger than 200 | Requires custom evaluation and preapproval |

| Requirements for prescriptive water well pumps | |
|---|--|
| Controlled equipment must meet the following: | Examples of eligible water well pump VFDs |
| <ul style="list-style-type: none"> Existing throttling control 20% minimum flow variation | <ul style="list-style-type: none"> Municipal water supply Golf course/landscape irrigation Agricultural irrigation Other applications could include: <ul style="list-style-type: none"> Snow making when water is pumped from a well Waste water pumping from a well Storm water pumping from a well |

Equipment information

| Section A: HVAC and Non-HVAC VFDs | | | | | | | | | | |
|------------------------------------|--------------|---------|----------|----|---------|-----------|------------------|--------------|---------------------------------|----------|
| End-use function* (HF, HP, OF, OP) | Manufacturer | Model # | Drive | | Model # | | | Rebate offer | | |
| | | | Quantity | HP | HP | Rated RPM | (Open or closed) | HP** | \$ each | \$ total |
| 1 * | | | | | | | | | | \$ |
| 2 | | | | | | | | | | \$ |
| 3 | | | | | | | | | | \$ |
| | | | | | | | | | Total – Section A rebate | \$ |

*For end-use function, please select one of the following end use codes: HVAC-fan (HF); HVAC-pump (HP); Non-HVAC-fan (OF); Non-HVAC-pump (OP)
 **Rebated HP is the lesser of the VFD HP or the Motor HP

| Section B: Water well pump VFDs | | | | | | | | | | | | | |
|---------------------------------|----|--------|---------|----------|-----------|------------------|--|---------------------------------|----------------------------|-----------------------|---|---------|----------|
| Qty. | HP | Manuf. | Model # | OPD/TEFC | Rated RPM | Pump design flow | Avg. pump flow rate (GPM) ¹ | Static water level ² | Design pressure head (ft.) | Max. well depth (ft.) | Rebate offer | | |
| | | | | | | | | | | | HP | \$ each | \$ total |
| 4 | | | | | | | | | | | | | \$ |
| | | | | | | | | | | | | | \$ |
| | | | | | | | | | | | | | \$ |
| | | | | | | | | | | | Total – Section B rebate | \$ | |
| | | | | | | | | | | | Total – Xcel Energy rebate (A+B) | | |

¹The time weighted average flow rate
²The average well depth (ft)

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How to complete your application for drives

We offer prescriptive rebates for drives (variable frequency drive, VFD, adjustable speed drive, ASD) used on fan and pump equipment like HVAC systems, pumping systems, cooling towers, and industrial fans that are 1 hp to 200 hp in size.

We offer custom rebates for drives for other equipment not mentioned above, or are greater than 200 hp in size.

Rows:

Complete the information on a separate row for each model/type of drive.

Columns:

Review the heading descriptions below for instructions on what to include under each column.

End use function:

Use the code from the chart at the bottom of page 2 that is closest to your end use type.

Manufacturer:

Identify the manufacturer.

Model #:

Make sure to use the manufacturer's model number, not the part number. Also, make sure you don't transpose or omit any numbers.

Drive HP:

Please write the horsepower of the drive HP nameplate you have purchased and installed for the specific end use you indicated.

Motor HP:

Please write the horsepower of the motor (as shown on the motor nameplate or spec sheet) connected to the specific drive for the end use you indicated.

Rebate HP:

The drive rebate is calculated using the lowest rating of either the drive nameplate or the motor nameplate for the specific line items end use.

RPM:

Please identify the rated RPM of the motor controlled by the drive.

Motor type (Open or closed):

Please identify whether the controlled motor is an open drip proof (ODP) or a totally enclosed fan cooled (TEFC) motor.

Quantity:

Fill in the number of drives of this specific model for which you are seeking a rebate.

Rebate offer:

The rebate offer amount is noted in the tiered chart.

Total Xcel Energy rebate:

Multiply the drive quantity by the rebate offer (see page 2) to determine your total rebate.

| Drive Rebate Application | | | | Business Application | | | | | | | | | | |
|---|---|--|----------|--|-----------|------------------|--|---------------------------------|---------------------------------|-----------------------|---|---------|-----------|----------|
| Business Solutions Center 855.839.8862 | | | | Colorado | | | | | | | | | | |
| For invoices dated on or after March 1, 2017 | | | | | | | | | | | | | | |
| Drive rebate offer | | | | | | | | | | | | | | |
| Requirements for prescriptive VFD rebates | | | | | | | | | | | | | | |
| For these systems | ... controlled equipment must be | ... and must be in these situations. | | | | | | | | | | | | |
| HVAC systems in existing buildings | Fans, including VAVs (centrifugal or axial) | Retrofit or failed-VFD replacement | | | | | | | | | | | | |
| | Single-stage centrifugal pumps | Retrofit or failed-VFD replacement for closed-loop systems, supply for evaporative condenser, cooling tower spray or tower circulating pumps | | | | | | | | | | | | |
| HVAC systems in new construction buildings | Fans, including VAVs (centrifugal or axial) | Must be ≤ 5 hp | | | | | | | | | | | | |
| | Single-stage centrifugal pumps | Must be ≤ 50 hp and for closed-loop systems, supply for evaporative condenser, cooling tower spray or tower circulating pumps. | | | | | | | | | | | | |
| Non-HVAC systems (with the exception of water well pumps) | Centrifugal fans and centrifugal blowers | Retrofit or failed-VFD replacement | | | | | | | | | | | | |
| | Single-stage centrifugal pumps | Retrofit or failed-VFD replacement | | | | | | | | | | | | |
| Requirements for prescriptive water well pumps | | | | | | | | | | | | | | |
| Controlled equipment must meet the following: | | | | Examples of eligible water well pump VFDs: | | | | | | | | | | |
| <ul style="list-style-type: none"> Existing throttling control 20% minimum flow variation | | | | <ul style="list-style-type: none"> Municipal water supply Golf course/landscape irrigation Agricultural irrigation Other applications could include: <ul style="list-style-type: none"> Snow making when water is pumped from a well Waste water pumping from a well Storm water pumping from a well | | | | | | | | | | |
| Equipment information | | | | | | | | | | | | | | |
| Section A: HVAC and Non-HVAC VFDs | | | | | | | | | | | | | | |
| End-use function* (HF, HP, DF, OP) | Manufacturer | Model # | Drive | | | Model # | | Rebate offer | | | | | | |
| | | | Quantity | HP | HP | Rated RPM | (Open or closed) | HP** | \$ each | \$ total | | | | |
| 1* | HF | SCC | MF208 | 6 | 3 | 3 | 3600 | ODP | 3 | \$600 | \$ 3,600 | | | |
| 2 | HF | SCC | JLZ24G2X | 2 | 10 | 10 | 1800 | ODP | 10 | \$1,350 | \$ 2,700 | | | |
| 3 | HP | SCC | ALZ 1830 | 3 | 40 | 30 | 1200 | TEFC | 30 | \$3,200 | \$ 9,600 | | | |
| *For end-use function, please select one of the following end use codes: HVAC-fan (HF), HVAC-pump (HP), Non-HVAC-fan (DF), Non-HVAC-pump (OP) | | | | | | | | | Total - Section A rebate | | \$ 15,900 | | | |
| **Rebated HP is the lesser of the VFD HP or the Motor HP | | | | | | | | | | | | | | |
| Section B: Water well pump VFDs | | | | | | | | | | | | | | |
| Qty. | HP | Manuf. | Model # | OPD/TEFC | Rated RPM | Pump design flow | Avg. pump flow rate (GPM) ¹ | Static water level ² | Design pressure head (ft.) | Max. well depth (ft.) | Rebate offer | | | |
| | | | | | | | | | | | HP | \$ each | \$ total | |
| 4 | 1 | 20 | ABS | ACS800-U1-2 | TEFC | 1,800 | 300 | 175 | 70 | 285 | 140 | 20 | \$2,300 | \$ 2,300 |
| | | | | | | | | | | | | | \$ | \$ |
| | | | | | | | | | | | Total - Section B rebate | | \$ 2,300 | |
| | | | | | | | | | | | Total - Xcel Energy rebate (A+B) | | \$ 18,200 | |

For water well pump equipment table only:

Pump design flow:

The design flow rate (GPM) for a water well pump

Average pump flow rate:

The time weighted average flow rate (GPM) for a water well pump

Static water level:

The average well depth in feet

Design pressure head:

The design pressure head (ft) for a water well pump or feet of head

Maximum well depth:

Pump design head maximum well depth (ft below the pump discharge)

GPM:

Gallons per minute

ft:

Feet

For invoices dated on or after March 1, 2017

Sample invoice

| | | | | |
|--|---|------------------------------|----------------------------------|----------|
| ABC Sales/Installation and Service Company 17458 Middle of the City Anywhere, USA 11111 | | Date 3/1/17 | Invoice # AB742 | |
| Bill to: | Ship to: | | | |
| Customer A 243 Arthur St. Denver, CO 12345 | Customer A 243 Arthur St. Denver, CO 12345 | | | |
| | | PO No. Bill | Terms 2% 10 net 30 | |
| Model # | Description/Part | Qty | Unit | Total |
| #1 | Remove existing panel and electrical items not in use. Install new six (6) new BCC MFZ08,3 hp VFD, pressure transducer, and sensor Job | 6 | \$1,200 | \$7,200 |
| #2 | Modifications to Building Controls including installing two (2) BCC 10 hp return fan VFD, Model JLZ462X Serial Number xc125fg. Engineering, programming, graphics, materials and installation | 2 | \$2,500 | \$5,000 |
| #3 | All BCC products: Three (3) – ALZ 1830, 40 hp | 3 | \$7,000 | \$21,000 |
| #4 | Install ABB ACS800-U1-0020-2, 20 hp VFD on water well pump #6 | 1 | \$3,000 | \$3,000 |
| Thank you for your business. Please remit payment to: ABC Sales/Service | | | Total | \$36,200 |

Please write, on your invoice, the row numbers from the rebate application for the corresponding VFD.
 The numbers written on this sample invoice correspond to information provided on rows: 1, 2, 3 and 4 of the rebate application example shown on page 3.

For invoices dated on or after March 1, 2017

Rules and requirements

Qualifying customers

The Motor and Drive Efficiency program is available to Xcel Energy electric retail rate business customers who purchase and install variable frequency drives (VFD/ASD) to control their end-use equipment. It offers prescriptive and custom rebates depending the equipment and situation.

Prescriptive drive rebates

- The drive system must automatically vary the motor's speed to match changes in the system's load, rather than by manual means. **Drives used as only soft start or power correction are not eligible for rebates.**
- The equipment controlled by the drive must run for more than 100 hours per year. If the drive controls multiple motors, the any motors that do not run for > 100 hours per year do not count toward the rebate-able horsepower.
- VFD installations must also meet one of the equipment/situation combinations shown in "Requirements for prescriptive rebates" table.

Examples of drive applications that **do not qualify** for prescriptive rebates include:

- Existing refrigeration compressors or air compressors.
- Non-fan, non-pump equipment such as presses, extruders, stirrers, conveyors, vacuum pumps or chillers.
- Integrated VFD/pump/motor units.
- Positive displacement pumps or positive displacement blowers.
- Any other situation not shown on the "Requirements for prescriptive VFD rebates" chart on page 2.

Prescriptive water well pump VFDs

Installations must meet one of the equipment/situation combinations listed below:

- Equipment:
 - Will operate at less than 100% speed during summer peak hours
 - Not used as a back-up
- Situations:
 - Municipal water supply
 - Golf course/landscape irrigation
 - Agricultural irrigation
 - Other applications could include:
 - Snow making when water is pumped from a well.
 - Lift stations that are pumping from a well.
 - Waste water pumping from a well.
 - Storm water pumping from a well.
 - Installed on single stage or multi-stage centrifugal pump from 1 hp to 200 hp.

The following information is required for the water well pump VFDs.

- Water well pump design flow
- Water well pump design head
- Static water level
- Maximum pumping water level
- Average pump flow

Custom rebates

Drive applications that do not qualify for prescriptive rebates may apply for custom rebates. **Custom Efficiency rebates require preapproval prior to purchase of the equipment.** Visit xcelenergy.com/CustomEfficiency for the Custom Efficiency rebate application and program details.

How to apply for rebates

Before submitting the rebate application, please make sure the equipment installation is complete, and include a copy of a dated invoice. Please make sure that the supporting equipment information (model number) matches the rebate application.

- The customer invoice must show quantity, model number, hp, and VFD costs (price to customer).
- Maximum rebate is 60 percent of project cost.
- Customers **must submit their rebate claim within 12 months from the purchase date** on the invoice.
- Submit forms to your account manager (if applicable), email to: energyefficiency@xcelenergy.com (preferred), or fax to: 800.311.0050, or mail to:
 - Xcel Energy
 - Energy Efficiency Specialists, Business Solutions Center
 - P.O. Box 8
 - Eau Claire, WI 54702

Other important information

Xcel Energy is not responsible for any lost, late, stolen, illegible, misdirected or postage due mail. All completed submissions become the property of Xcel Energy and will not be returned.

Warning: Fraudulent submission of this form may result in federal prosecution for mail fraud under 18 USC sections 1341, 1342.

Xcel Energy reserves the right to conduct a random audit of your project before or after issuing a rebate. The customer agrees to provide reasonable access to inspect the installation. Audits may be performed up to one year after the date of the rebate application.

If Xcel Energy finds that the application does not comply with Xcel Energy rules and qualifications, any rebate amount may be adjusted, denied or subject to return. Xcel Energy reserves the right to publicize your participation in this program, unless you specifically request otherwise. Xcel Energy reserves the right to refuse payment and participation if the customer or contractor violates program rules and procedures. Xcel Energy is not liable for rebates promised to customers as a result of a contractor misrepresenting the program.

Xcel Energy will issue a rebate in the form of a check.

Please allow up to eight weeks for rebate check to arrive.

Modification

This program's rules, requirements and offer are subject to change at any time. The changes will be posted on xcelenergy.com, and the program will provide up to 60 days notice of cancellation. The customer is responsible for checking with the Xcel Energy Business Solutions Center at 855.839.8862 or by the email energyefficiency@xcelenergy.com or visit xcelenergy.com/Rebates to determine whether the program is still in effect and to verify program parameters.

Warranty information

Warranties are between the customer and the equipment manufacturer(s). Xcel Energy makes no warranties, expressed or implied, with respect to equipment operation, material, workmanship or manufacturing. Xcel Energy 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 Xcel Energy be liable for any incidental or consequential damages. Xcel Energy is not responsible for the disposal of equipment replaced as a result of this program.

Definitions

- “Centrifugal pumps” generally include: end suction pumps, in-line pumps, double suction pumps, multistage pumps, axial-flow pumps, and regenerative pumps.
- “Positive displacement pumps” generally include: piston, plunger, or diaphragm reciprocating pumps, steam pumps, screw or vane rotary pumps, and progressive cavity pumps.
- For questions about definitions or requirements, contact your account manager or BSC representative before purchase.