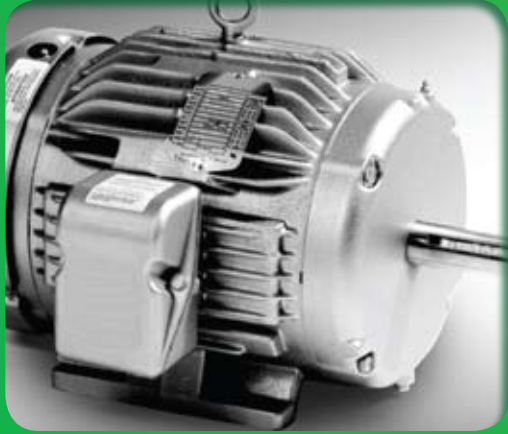


# 2009 Iowa Motors & Variable-Speed Drives Program



Adding flexibility to your production processes can make a big difference in your operational efficiency.



# If your system doesn't always run at the same speed, neither should your motors.



## The EnergyAdvantage<sup>®</sup> Motors & Variable-Speed Drives

program offers our commercial and industrial customers in Iowa incentives for installation of energy-efficient motors and/or variable-speed drive equipment.

There are simple dollars-and-cents reasons to utilize the Motors & Variable-Speed Drives program. In general, NEMA Premium<sup>®</sup>-efficient motors are 2-8 percent more efficient than standard motors. Adding a variable-speed drive to a NEMA Premium-efficient motor in an appropriate application saves even more because the motor then consumes less energy when load requirements are less than full speed. Qualifying equipment is eligible for financial incentives in the form of cash rebates or competitive interest rate financing.

### When Should You Install a Variable-Speed Drive?

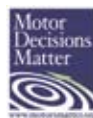
Commercial and industrial energy customers should consider installing variable-speed drive equipment if the motors are utilized for increased operating hours and have a higher variability of loads on the system (centrifugal pumps and fans) or the application of use includes mechanical throttling (valves, dampers, etc.). Variable-speed drives match the speed of the motor-driven equipment to the process requirement. Applications with low variability of loads such as vibrating conveyors, punch presses, rock crushers, machine tools and other applications where the motor runs at constant speed are not good candidates for a variable-speed drive.

The variable-speed drive incentive is \$30 per horsepower of the motor being used.

### When Should a Motor be Replaced?

Because electricity accounts for 97 percent of a motor's lifetime costs, choosing a NEMA Premium-efficient motor is appropriate before a motor fails, when a motor fails and for new installations. Other reasons for considering replacing motors are loading factors and age. Premium motors are generally most efficient at a loading factor of 75 percent. Motors operating above or below this loading factor may be candidates for resizing. Older units having high operating hours or which have been rewound also can be considered for replacement.

Qualifying motor incentives can be referenced on the table on the back page. Motors greater than 200 HP and others not listed in the table can be reviewed for incentive eligibility through MidAmerican's EnergyAdvantage Custom Systems program.



For additional resources regarding motor systems management, life cycle costing and return on investment, visit [www.motorsmatter.org](http://www.motorsmatter.org).



For detailed motor efficiency information, visit [www.nema.org/gov/energy/efficiency/premium](http://www.nema.org/gov/energy/efficiency/premium).

Call 800-894-9599 today.

## Consider These Benefits

Motor systems improvements will generally:

- Reduce energy costs,
- Improve plant efficiency and load factor,
- Minimize unscheduled downtime and
- Reduce maintenance costs.

Minimum annual operating hours for both motors and drives to qualify for incentives or financing is 3,000 out of a possible 8,760 hours.

## How to Participate

On the application form please check whether you are applying for an incentive or for financing. Once you've made your decision, please follow the appropriate procedure described below.

**For financing**, call 800-894-9599 to initiate the loan process.

### For incentives:

1. For motors, please refer to Incentives Available table for amounts.
2. For VSDs, incentive of \$30/HP of the motor being used.

3. Installer completes Equipment Information and Motor/Drive Information sections.
4. Customer completes Customer Information, Operating Information and Customer Agreement and submits form, along with copy of dated invoice, including manufacturer's name, model and serial number and quantity of energy-efficient equipment purchased and installed to:

MidAmerican Energy Company  
EnergyAdvantage Programs  
P.O. Box 7232  
Des Moines, IA 50309-7232

**or fax** to 515-244-8825

Once equipment is operating and your application is reviewed and approved by MidAmerican, your incentive check will be issued. Please allow two to three weeks for processing.

## Questions?

**Customers may call MidAmerican toll free at 800-894-9599 with questions about the program or to check the status of an incentive or loan application.**

## Terms and Conditions

- Participants must be MidAmerican commercial or industrial customers located in Iowa. Primary energy required by qualifying measure must be purchased directly from MidAmerican.
  - **Incentives exceeding \$10,000 require preapproval by MidAmerican.** Projects must be completed within six months of preapproval.
  - Installations must meet the Institute of Electrical and Electronic Engineers' IEEE 519, current ANSI standard.
  - MidAmerican may require verification of sales receipts and canceled checks as well as on-site verification of the installation prior to or after issuance of the incentive check.
  - Applications must be submitted within three months of equipment installation in existing buildings and within six months of equipment installation in new construction.
  - An itemized and dated invoice from the contractor must accompany the equipment application.
- Applications must be completed in full; incomplete applications will delay processing and may be returned. Attach a copy of invoice.
- Incentive checks will be issued to building owner or account holder when equipment is installed in existing building. Checks will be issued to builder/general contractor or building owner when equipment is installed in new building. If financing, loan proceeds will be delivered by a joint check payable to the customer and dealer.
  - Equipment must be installed and operating prior to submission of application.
  - **MidAmerican reserves the right to verify installations.**
  - MidAmerican reserves the right to install a metering device on new equipment to verify energy savings.
  - Incentive may be subject to income tax. Consult your tax advisor for more information.
  - This program is subject to change or cancellation without notice.

## Federal Tax Credits for Energy Efficiency

Consult your tax advisor for any applicable federal tax credit incentives available for installation of energy-efficient equipment.

Disclaimer: MidAmerican does not guarantee that installation and operation of energy-efficient equipment will result in reduced usage or in cost savings. The manner in which a customer uses and maintains energy-efficient equipment affects potential cost savings. MidAmerican makes no warranties, expressed or implied, with respect to any equipment purchased or installed, including, but not limited to, any warranty of merchantability or fitness for a particular purpose. In no event shall MidAmerican be held liable for any incidental or consequential damages or injuries resulting from defective equipment or installation. MidAmerican reserves the right to cancel or change these programs at any time. MidAmerican's acceptance of this application does not guarantee payment of incentive or acceptance of financing.

# 2009 Iowa Premium Motor Rebate Application

Please complete this application and attach copies of invoices. Please provide drive specification sheets.

Please choose one:  I am applying for an EnergyAdvantage **incentive**.  
 I am applying for EnergyAdvantage **financing**.

**ATTENTION DEALERS**  
 Please photocopy this form and save the original for future use or download forms from [www.midamericanenergy.com/motors](http://www.midamericanenergy.com/motors).

**Mail to:** MidAmerican Energy Company, EnergyAdvantage Programs, P.O. Box 7232, Des Moines, IA 50309-7232 **or fax** to 515-244-8825.  
 Call 800-894-9599 with questions about the program.

## Customer Information

MidAmerican account number (found on bill) \_\_\_\_\_  
 Installation address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Company name on bill \_\_\_\_\_  
 Incentive check (if applicable) should be payable to \_\_\_\_\_  
 Mailing address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Contact person \_\_\_\_\_ Title \_\_\_\_\_  
 Phone \_\_\_\_\_ E-mail address \_\_\_\_\_  
 Name on loan application \_\_\_\_\_

## Customer Agreement (Signature required before application is processed.)

My signature indicates consent to and agreement with all program terms and conditions; and certifies that all information on this application is correct; and that all of the listed new equipment has been purchased, installed and is operating at the indicated location. **I understand that MidAmerican reserves the right to inspect and verify installation before or after issuing the rebate payment.**

Customer signature \_\_\_\_\_ Date \_\_\_\_\_

## Equipment Information

Will the equipment be installed in a:  New facility  Existing facility  Agribusiness facility  
 Location (e.g. department, building, machine) \_\_\_\_\_

## Installing Dealer Information

Dealer name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Contact person \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 E-mail address \_\_\_\_\_ **Signature** \_\_\_\_\_

## NEMA Premium Motor Information (Please list each motor separately and attach specification sheets.)

| MANUFACTURER | MODEL OR CATALOG # | SERIAL # | RATING (HP) | EFFICIENCY PERCENT | MOTOR SPEED | TEFC or ODP | MOTOR COST | INSTALLATION LABOR (COST) |
|--------------|--------------------|----------|-------------|--------------------|-------------|-------------|------------|---------------------------|
|              |                    |          |             |                    |             |             |            |                           |
|              |                    |          |             |                    |             |             |            |                           |
|              |                    |          |             |                    |             |             |            |                           |

## Type of Application (check one)

Heating/cooling equipment  
 Other \_\_\_\_\_

## Operating Information

Motor Hours of Operation: (please circle a.m. or p.m.)  
 Monday - Friday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Saturday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Sunday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Estimated total hours per year \_\_\_\_\_ out of 8,760 possible  
 June - Sept.  Oct. - May  Year-round  Other \_\_\_\_\_

**Note: 3,000 operating hours minimum required for incentives.**

For MidAmerican Use  
 Date received \_\_\_\_/\_\_\_\_/\_\_\_\_ Date approved \_\_\_\_/\_\_\_\_/\_\_\_\_ Equipment approved by \_\_\_\_\_  
 Incentive amount \_\_\_\_\_ Eligible for loan up to \$ \_\_\_\_\_

# 2009 Iowa Variable-Speed Drive Rebate Application

Please complete this application and attach copies of invoices. Please provide drive specification sheets.

Please choose one:  I am applying for an EnergyAdvantage **incentive**.  
 I am applying for EnergyAdvantage **financing**.

**ATTENTION DEALERS**  
 Please photocopy this form and save the original for future use or download forms from [www.midamericanenergy.com/motors](http://www.midamericanenergy.com/motors).

**Mail to:** MidAmerican Energy Company, EnergyAdvantage Programs,  
 P.O. Box 7232, Des Moines, IA 50309-7232 **or fax** to 515-244-8825.  
 Call 800-894-9599 with questions about the program.

## Customer Information

MidAmerican account number (found on bill) \_\_\_\_\_  
 Installation address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Company name on bill \_\_\_\_\_  
 Incentive check (if applicable) should be payable to \_\_\_\_\_  
 Mailing address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Contact person \_\_\_\_\_ Title \_\_\_\_\_  
 Phone \_\_\_\_\_ E-mail address \_\_\_\_\_  
 Name on loan application \_\_\_\_\_

## Customer Agreement (Signature required before application is processed.)

My signature indicates consent to and agreement with all program terms and conditions; and certifies that all information on this application is correct; and that all of the listed new equipment has been purchased, installed and is operating at the indicated location.  
**I understand that MidAmerican reserves the right to inspect and verify installation before or after issuing the rebate payment.**

Customer signature \_\_\_\_\_ Date \_\_\_\_\_

## Equipment Information

Will the equipment be installed in a:  New facility  Existing facility  Agribusiness facility  
 Location (e.g. department, building, machine) \_\_\_\_\_

## Installing Dealer Information

Dealer name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Contact person \_\_\_\_\_ Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 E-mail address \_\_\_\_\_ Signature \_\_\_\_\_

## Variable-Speed Drive Information (Please list each VSD separately and attach specification sheets.)

**Incentive of \$30/HP of the motor being used**

|              |                    |          |             |                    |                |                           | CONTROLLED MOTOR INFORMATION |                    |
|--------------|--------------------|----------|-------------|--------------------|----------------|---------------------------|------------------------------|--------------------|
| MANUFACTURER | MODEL OR CATALOG # | SERIAL # | RATING (HP) | EFFICIENCY PERCENT | EQUIPMENT COST | INSTALLATION LABOR (COST) | RATING (HP)                  | EFFICIENCY PERCENT |
|              |                    |          |             |                    |                |                           |                              |                    |
|              |                    |          |             |                    |                |                           |                              |                    |
|              |                    |          |             |                    |                |                           |                              |                    |

## Type of Application (check one)

Heating/cooling equipment  
 Other \_\_\_\_\_

## Operating Information

VSD Hours of Operation: (please circle a.m. or p.m.)  
 Monday - Friday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Saturday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Sunday \_\_\_\_\_ a.m./p.m. to \_\_\_\_\_ a.m./p.m.  
 Estimated total hours per year \_\_\_\_\_ out of 8,760 possible  
 June - Sept.  Oct. - May  Year-round  Other \_\_\_\_\_

**Note: 3,000 operating hours minimum required for incentives.**

For MidAmerican Use  
 Date received \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Date approved \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ Equipment approved by \_\_\_\_\_  
 Incentive amount \_\_\_\_\_ Eligible for loan up to \$ \_\_\_\_\_

# Motor Incentives Available (Three Phase Only)

## NEMA Premium – TEFC Motors

| HORSE POWER | SPEED in RPM | NOMINAL EFFICIENCY | INCENTIVES AVAILABLE |
|-------------|--------------|--------------------|----------------------|
| 1           | 3600         | 77.0%              | \$30                 |
|             | 1800         | 85.5%              | \$45                 |
|             | 1200         | 82.5%              | \$45                 |
| 1.5         | 3600         | 84.0%              | \$30                 |
|             | 1800         | 86.5%              | \$55                 |
|             | 1200         | 87.5%              | \$55                 |
| 2           | 3600         | 85.5%              | \$45                 |
|             | 1800         | 86.5%              | \$65                 |
|             | 1200         | 88.5%              | \$80                 |
| 3           | 3600         | 86.5%              | \$45                 |
|             | 1800         | 89.5%              | \$65                 |
|             | 1200         | 89.5%              | \$80                 |
| 5           | 3600         | 88.5%              | \$55                 |
|             | 1800         | 89.5%              | \$70                 |
|             | 1200         | 89.5%              | \$115                |
| 7.5         | 3600         | 89.5%              | \$90                 |
|             | 1800         | 91.7%              | \$80                 |
|             | 1200         | 91.0%              | \$170                |
| 10          | 3600         | 90.2%              | \$90                 |
|             | 1800         | 91.7%              | \$100                |
|             | 1200         | 91.0%              | \$200                |
| 15          | 3600         | 91.0%              | \$195                |
|             | 1800         | 92.4%              | \$100                |
|             | 1200         | 91.7%              | \$230                |
| 20          | 3600         | 91.0%              | \$155                |
|             | 1800         | 93.0%              | \$150                |
|             | 1200         | 91.7%              | \$325                |
| 25          | 3600         | 91.7%              | \$250                |
|             | 1800         | 93.6%              | \$215                |
|             | 1200         | 93.0%              | \$300                |
| 30          | 3600         | 91.7%              | \$250                |
|             | 1800         | 93.6%              | \$250                |
|             | 1200         | 93.0%              | \$320                |
| 40          | 3600         | 92.4%              | \$265                |
|             | 1800         | 94.1%              | \$275                |
|             | 1200         | 94.1%              | \$480                |
| 50          | 3600         | 93.0%              | \$390                |
|             | 1800         | 94.5%              | \$375                |
|             | 1200         | 94.1%              | \$530                |
| 60          | 3600         | 93.6%              | \$390                |
|             | 1800         | 95.0%              | \$480                |
|             | 1200         | 94.5%              | \$565                |
| 75          | 3600         | 93.6%              | \$480                |
|             | 1800         | 95.4%              | \$650                |
|             | 1200         | 94.5%              | \$720                |
| 100         | 3600         | 94.1%              | \$870                |
|             | 1800         | 95.4%              | \$805                |
|             | 1200         | 95.0%              | \$1,250              |
| 125         | 3600         | 95.0%              | \$595                |
|             | 1800         | 95.4%              | \$875                |
|             | 1200         | 95.0%              | \$780                |
| 150         | 3600         | 95.0%              | \$750                |
|             | 1800         | 95.8%              | \$1,050              |
|             | 1200         | 95.8%              | \$1,465              |
| 200         | 3600         | 95.4%              | \$875                |
|             | 1800         | 96.2%              | \$905                |
|             | 1200         | 95.8%              | \$1,595              |

## NEMA Premium – Open Drip Proof

| HORSE POWER | SPEED in RPM | NOMINAL EFFICIENCY | INCENTIVES AVAILABLE |
|-------------|--------------|--------------------|----------------------|
| 1           | 3600         | 77.0%              | \$25                 |
|             | 1800         | 85.5%              | \$30                 |
|             | 1200         | 82.5%              | \$25                 |
| 1.5         | 3600         | 84.0%              | \$45                 |
|             | 1800         | 86.5%              | \$30                 |
|             | 1200         | 86.5%              | \$40                 |
| 2           | 3600         | 85.5%              | \$30                 |
|             | 1800         | 86.5%              | \$30                 |
|             | 1200         | 87.5%              | \$30                 |
| 3           | 3600         | 85.5%              | \$30                 |
|             | 1800         | 89.5%              | \$40                 |
|             | 1200         | 88.5%              | \$55                 |
| 5           | 3600         | 86.5%              | \$40                 |
|             | 1800         | 89.5%              | \$50                 |
|             | 1200         | 89.5%              | \$50                 |
| 7.5         | 3600         | 88.5%              | \$115                |
|             | 1800         | 91.0%              | \$90                 |
|             | 1200         | 90.2%              | \$220                |
| 10          | 3600         | 89.5%              | \$55                 |
|             | 1800         | 91.7%              | \$125                |
|             | 1200         | 91.7%              | \$240                |
| 15          | 3600         | 90.2%              | \$115                |
|             | 1800         | 93.0%              | \$175                |
|             | 1200         | 91.7%              | \$245                |
| 20          | 3600         | 91.0%              | \$120                |
|             | 1800         | 93.0%              | \$145                |
|             | 1200         | 92.4%              | \$245                |
| 25          | 3600         | 91.7%              | \$155                |
|             | 1800         | 93.6%              | \$155                |
|             | 1200         | 93.0%              | \$150                |
| 30          | 3600         | 91.7%              | \$175                |
|             | 1800         | 94.1%              | \$155                |
|             | 1200         | 93.6%              | \$150                |
| 40          | 3600         | 92.4%              | \$150                |
|             | 1800         | 94.1%              | \$220                |
|             | 1200         | 94.1%              | \$240                |
| 50          | 3600         | 93.0%              | \$145                |
|             | 1800         | 94.5%              | \$130                |
|             | 1200         | 94.1%              | \$240                |
| 60          | 3600         | 93.6%              | \$155                |
|             | 1800         | 95.0%              | \$255                |
|             | 1200         | 94.5%              | \$280                |
| 75          | 3600         | 93.6%              | \$490                |
|             | 1800         | 95.0%              | \$320                |
|             | 1200         | 94.5%              | \$280                |
| 100         | 3600         | 93.6%              | \$490                |
|             | 1800         | 95.4%              | \$450                |
|             | 1200         | 95.0%              | \$395                |
| 125         | 3600         | 94.1%              | \$445                |
|             | 1800         | 95.4%              | \$500                |
|             | 1200         | 95.0%              | \$470                |
| 150         | 3600         | 94.1%              | \$330                |
|             | 1800         | 95.8%              | \$315                |
|             | 1200         | 95.4%              | \$625                |
| 200         | 3600         | 95.0%              | \$625                |
|             | 1800         | 95.8%              | \$540                |
|             | 1200         | 95.4%              | \$980                |

For motors > 200 HP, please use the Nonresidential Custom Systems program.



800-894-9599



www.MIDAMERICANENERGY.com/ee