

ENERGY WISE

for your Business



Are motors part of your business? Did you know you can save money and energy by changing the speed of the motor as the load on the motor changes?

PREMIUM EFFICIENCY MOTORS AND VARIABLE FREQUENCY DRIVES

VARIABLE FREQUENCY DRIVES:

Value for Your Business

Most motors turn at nearly constant speed. They are designed to operate most efficiently at their horsepower (hp) rating. However, sometimes the load or work motors need to perform is less than maximum design speed. You can save energy by only using the power you need from a motor. This speed reduction can be accomplished with a Variable Frequency Drive (VFD).

You can save energy by matching motor speed to the load. This speed reduction can be accomplished with a Variable Frequency Drive (VFD). A VFD varies the frequency of the Alternating Current (AC) power. The motor speed varies in proportion to the drive operated frequency.

Drives also provide soft starting, allowing a motor to start slowly and then speed up, reducing mechanical stress on the motor and equipment driven by the motor. VFDs can also reduce the voltage sag that can occur when a large motor starts quickly. Rebates are not available for replacement VFDs, soft starts, power factor correction or related applications.

How does it work?

The rebates are available for new VFD's. Drives must be tied to an automated control system and have a true power factor of .90 or greater.

Approved applications of VFD's include:

- HVAC fans
- Pumps
- Cooling towers
- Process equipment
- Industrial fans

Please submit VFD controlled chillers and refrigeration compressors through East Central Energy's custom rebate program. The VFD will be evaluated in conjunction with the equipment operating efficiency and loading. The rebate is based on the rated VFD controlled horsepower or horsepower of the motor, whichever is lowest. Rebates are not available on replacement VFDs, soft starts, power factor correction or related equipment.

Who can participate?

Any commercial or industrial cooperative customer can participate. The increased sophistication and proliferation of these drives have pushed energy savings into HVAC pumps, fans, conveyor motors and other smaller applications in a variety of commercial and industrial areas. Where the load fluctuates, there is potential for a drive to save money.

What you'll receive

A \$30 rebate per hp based on rated VFD control hp or hp of motor, whichever is lower.

Invest in Premium Efficiency Motors and watch the savings add up

PREMIUM EFFICIENCY MOTORS:

Have you every wished for a capital investment that could repay many times its original value over the next 20 years? This investment can improve equipment reliability, reduce downtime and repair costs, and result in lower releases of carbon dioxide to the atmosphere.

The investment is straightforward: electric motors with the highest electrical energy efficiency based on your needs. Energy-efficient motors can pay for themselves in a few years or sometimes even a few months, after which they will continue to pile up savings worth many times their purchase cost for as long as they remain in service. That's another way of saying that operating costs, not just first cost, are what you should look at when buying a new motor.

Value For Your Business

Energy and cost savings available when replacing serviceable standard efficiency motor with an EPA-level or NEMA premium motor.

Who can participate?

Any commercial building or business retrofitting an old standard motor can qualify. New installations do not qualify for the program.

What you'll receive

Rebates will apply only to new premium efficiency motors, not rewind or repaired motors. Rebates apply to motors from 1 hp to 200 hp when they meet or exceed premium efficiency standards and offer the following features:

- AC polyphase induction motor
- Squirrel cage rotor design
- NEMA design B torque characteristics
- Synchronous speeds of 3600, 1800, 1200 rpm

The nameplate of the new motor must clearly state the National Electrical Manufacturers Association (NEMA) premium efficiency in order to qualify for rebates.



What you need to do

1. You are responsible for checking with ECE to verify funding availability and program parameters.
2. Installation must be complete before funds will be issued.
3. Itemized invoices from equipment vendors must accompany rebate application.
4. Invoices must itemize labor charges, quantity and price of the equipment installed.
5. Invoices must include manufacturer and model numbers for the installed equipment.
6. ECE reserves the right to conduct inspections.
7. The maximum rebate amount is limited to 50% of the project costs, up to a maximum dollar amount deemed by the cooperative.

CONTACT US AND START SAVING TODAY

If you have any questions or need assistance in making these savings a reality for your business; please contact your local energy expert at 1.800.254.7944.

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