

2009 Illinois Agribusiness Energy Efficiency Program



Producers can count on MidAmerican Energy Company for assistance with energy-efficient solutions.



Benefit from lower energy bills and offset equipment costs.



Installing energy-efficient equipment can reduce operating costs. Simply adding a variable-speed drive to a vacuum pump or updating lighting with energy-efficient bulbs and ballasts could help you decrease costs and improve productivity.

MidAmerican features a variety of programs designed to assist its agribusiness customers in becoming more energy efficient. MidAmerican's EnergyAdvantage® Agribusiness energy efficiency program offers assistance to customers where MidAmerican delivers electricity and/or natural gas in its **Illinois** service territory. The program includes rebates to purchase energy-efficient equipment, farm energy audits to determine and prioritize energy efficiency improvements and expert technical assistance. More agribusiness customers are discovering how to save money as well as do their part to reduce the overall demand on the natural resources needed to produce energy. Agribusiness customers may call MidAmerican toll free at **800-292-6448** with questions about the programs.

Equipment Incentive Programs

MidAmerican's EnergyAdvantage equipment incentive programs help customers afford commonly available energy-efficient equipment. The equipment incentive programs provide a rebate which reduces your out-of-pocket costs. The programs assist with the purchase of qualifying heating, ventilating, air conditioning, refrigerating, lighting, motors and variable-speed drives equipment installed in facilities served by MidAmerican. Incentives also are available for qualifying energy-efficient equipment and systems custom-designed to meet unique agribusiness production needs.

Heating, Ventilating and Air Conditioning

Installation of new energy-efficient heating, ventilating and air conditioning equipment saves you money over the life of your equipment on monthly energy bills and makes your work environment more comfortable. Equipment installed as replacement units, retrofits or in new construction is eligible.

A partial list of equipment that qualifies for MidAmerican rebate incentives is provided on the next page. Visit our Web site at www.midamericanenergy.com/illinois_hvac for a more complete list of high-efficiency heating, ventilating and air conditioning equipment, including air conditioners, chillers, programmable thermostats, etc.

Equipment efficiencies are rated at full load according to test procedures and conditions specified in American Society of Heating, Refrigerating and Air-Conditioning Engineers Standard 90.1. Your local equipment dealers can explain the various equipment efficiencies available and help you find the right equipment for your heating and cooling needs.

Call **800-292-6448** today.

Eligible Heating and Cooling Equipment

EQUIPMENT TYPE	MINIMUM CODE	MINIMUM COOLING EFFICIENCY	HEATING EFFICIENCY	REBATES
Heat Pumps				
Air-Source				
<65 MBtuh – Single Phase	198	14.0 SEER	8.5 HSPF	\$400 + (\$100 x (SEER – 14.0)) Maximum rebate \$600
	398	14.0 SEER	<8.5 HSPF	\$200 + (\$100 x (SEER – 14.0)) Maximum rebate \$400
<65 MBtuh – Three Phase	245	14.0 SEER	8.5 HSPF	\$300 + (\$100 x (SEER – 14.0)) Maximum rebate \$600
≥ 65 and <135 MBtuh	099	11.0 EER	3.4 COP ¹	(\$50 x (EER - 10.9)) x tons
≥ 135 and <240 MBtuh	099	10.8 EER	3.2 COP	(\$50 x (EER - 10.7)) x tons
≥ 240 MBtuh	099	10.0 EER	3.2 COP	(\$50 x (EER - 9.9)) x tons
Ground-Source (Geothermal)				
<135 MBtuh				
Closed loop	396	14.1 EER	3.3 COP ¹	\$300 per heating ton plus \$300 per ton ground loop ²
Open loop	397	16.2 EER	3.6 COP	\$300 per heating ton plus \$300 per ton ground loop ²
≥ 135 MBtuh	See Illinois Nonresidential Custom Systems Program			
Desuperheater	019	NA	NA	\$100 per unit
Furnaces (Natural Gas)				
<225 MBtuh	040		92 AFUE	\$250 + (\$25 x (AFUE - 92)) Maximum rebate \$350
≥ 225 MBtuh	See Illinois Nonresidential Custom Systems Program			
Water Heaters (Natural Gas)				
≤ 75 MBtuh				
≤ 30 gallons	205		0.64 EF	\$50 per unit
> 30 gallons and ≤ 60 gallons	205		0.62 EF	\$50 per unit
> 60 gallons	205		0.59 EF	\$50 per unit
> 75 MBtuh	096		85 Thermal Efficiency (TE)	(\$0.80 + (\$0.20 x (TE-85))) x MBtuh

¹ COP rated at 47° F dry bulb.

² New ground loop installation only. Maximum rebated loop size determined by the rated heating capacity of installed unit.

Variable-Speed Drives

Customers should consider installing variable-speed drive equipment when motors are used for variable operating hours and have a high variability of loads on systems (pumps and fans) or the application includes mechanical throttling (valves, dampers, etc.). A variable-speed drive added to a vacuum pump adjusts the speed of the motor-driven equipment to maintain a stable vacuum. Customers conserve energy and reduce costs, since the pump operates only at the speed that is necessary. Adding a variable-speed drive to a NEMA Premium®-efficient motor for an appropriate application saves even more energy because the motor consumes less energy when load requirements are not at full speed. Applications with low variability of loads where the motors run at a 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. The motor must be 5 horsepower or greater to qualify for an incentive.

Motors

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 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.

Visit our Web site at www.midamericanenergy.com/illinois_motors for a more complete list of eligible energy-efficient motors. Examples of qualifying motor incentives are shown on the next page.

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

Motor Incentives Available (Three Phase Only)

NEMA Premium – TEFC Motors

HORSE POWER	SPEED IN RPM	MINIMUM EFFICIENCY	INCENTIVES AVAILABLE
1	3600	77.0%	\$25
	1800	85.5%	\$35
	1200	82.5%	\$35
1.5	3600	84.0%	\$25
	1800	86.5%	\$45
	1200	87.5%	\$45
2	3600	85.5%	\$35
	1800	86.5%	\$50
	1200	88.5%	\$40
3	3600	86.5%	\$35
	1800	89.5%	\$50
	1200	89.5%	\$65
5	3600	88.5%	\$45
	1800	89.5%	\$55
	1200	89.5%	\$90

NEMA Premium – Open Drip Proof

HORSE POWER	SPEED IN RPM	MINIMUM EFFICIENCY	INCENTIVES AVAILABLE
1	3600	77.0%	\$15
	1800	85.5%	\$25
	1200	82.5%	\$20
1.5	3600	84.0%	\$30
	1800	86.5%	\$25
	1200	86.5%	\$30
2	3600	85.5%	\$25
	1800	86.5%	\$25
	1200	87.5%	\$35
3	3600	85.5%	\$25
	1800	89.5%	\$30
	1200	88.5%	\$45
5	3600	86.5%	\$30
	1800	89.5%	\$40
	1200	89.5%	\$40

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

Lighting

Energy-efficient lighting is an investment with short payback periods and attractive rates of return. By installing energy-efficient lighting you can significantly reduce your electric usage, decrease your monthly energy costs and markedly improve your lighting quality. Incentives are for efficient interior lighting only.

Visit our Web site at www.midamericanenergy.com/illinois_lighting for a more complete list of eligible energy-efficient lighting equipment. Examples of eligible lighting equipment are shown below.

Eligible Lighting Equipment

EQUIPMENT TYPE	FIXTURE SIZE	# OF LAMPS	LAMP TYPE	REBATE AMOUNTS
Fluorescent U-bend T-8 fixtures; for existing buildings only (with electronic ballasts)	2 Foot	2	T-8 U-bend	\$10/fixture
Fluorescent T-8 or T-5 fixtures; for existing buildings only (with electronic ballasts)	2 Foot 4 Foot 8 Foot	1/2 1/2 / 3/4 1/2	T-8 or T-5 T-8 or T-5 T-8	\$10/\$10/fixture \$6/\$8/\$12/\$16/fixture \$8/\$10/fixture
Compact fluorescent lamps (self-ballast/screw-in)	N/A	1	9 watts and up	\$2/lamp*
Occupancy sensors	N/A	N/A	Wall-mount and ceiling-mount (must control > 400 watts)	\$20 each
150 watts compact fluorescent low-bay fixtures (hard-wired)	N/A	Any	Hard-wired	\$25/fixture

*Maximum rebate of \$2/lamp or 50 percent of purchase price per lamp.

Customized Equipment and Systems

MidAmerican also provides rebate incentives to help agribusiness customers implement energy-efficient equipment and systems that are custom-designed to fit their specific needs but that do not fit well under MidAmerican's standard equipment programs. Rebate incentives are based on qualifying equipment's higher incremental cost, peak demand reduction, annual energy use reduction and energy cost savings. To be eligible for an incentive, an application for the program must be received and approved by MidAmerican prior to the customer's purchase and installation of equipment or systems. MidAmerican can provide technical assistance to expedite the incentive application process.

Here are some examples of projects that may qualify for energy efficiency incentives through the Custom Systems program.

- Waste-recovery systems
- Low-pressure irrigation systems
- Stock waterers
- Variable-speed drive vacuum pumps
- Process and heat-recovery heat pumps
- Milk plate cooler
- Scroll compressors
- Ceiling, wall and foundation insulation not included in other EnergyAdvantage programs

Visit our Web site at www.midamericanenergy.com/illinois_custom for more information about our Custom Systems guidelines.

Farm Energy Audits

MidAmerican's EnergyAdvantage farm energy audits provide agribusiness customers a better understanding of how their facilities use energy. The energy audit report includes specific recommendations on ways to use energy more efficiently and reduce monthly energy bills. All farm customers located where MidAmerican delivers electricity and/or natural gas in its **Illinois** service territory are eligible to receive a farm energy audit at no cost.

Participants in a farm energy audit receive the benefit of trustworthy energy-savings advice. The report will include recommendations for energy-saving actions complete with estimates of energy-savings potential and general cost estimates for each recommended action, including low- or no-cost suggestions for quick energy savings. MidAmerican does not sell equipment and appliances, so the audit is independent of equipment suppliers and manufacturers; our recommendations are not brand-specific.

Questions?

If you have questions about application procedures, qualifying projects, incentives or verification procedures, call **800-292-6448**.

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 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.

800-292-6448

www.MIDAMERICANENERGY.com/illinois_ee



Terms and Conditions*

- Rebates are available for qualifying equipment purchased and installed in commercial, industrial and other nonresidential facilities where MidAmerican delivers electricity and/or natural gas in its **Illinois** service territory.
 - Equipment rebates exceeding \$10,000 and custom rebates require preapproval by MidAmerican. Projects must be completed within six months of preapproval. Extensions are available upon request.
 - All project installations with rebates exceeding \$20,000 require on-site verification of installation by MidAmerican or its agent prior to issuance of rebate check. MidAmerican reserves the right to verify project installations where rebates are less than \$20,000.
 - MidAmerican reserves the right to install a metering device on new equipment, and to verify sales receipts and canceled checks, as well as conduct on-site verification of equipment installation during the customer's normal business hours, before or after issuing rebate.
 - Rebate is not payable until equipment is installed, operating and approved by MidAmerican.
 - Rebates for installation projects are based on rebate schedules in effect on the installation date.
 - Rebate check will be issued to the building owner or account holder when equipment is installed in an existing building. The check will be issued to the builder/general contractor or building owner when equipment is installed in a new building.
 - Rebates may be subject to income tax. Please consult your tax advisor for more information.
 - MidAmerican reserves the right to change or cancel this program at any time.
- * Specific programs may have additional terms and conditions relevant to their individual qualifications.

For more information, call **800-292-6448** or visit MidAmerican's Web site at www.midamericanenergy.com/illinois_business.

Federal Tax Credits for Energy Efficiency

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

