

EEC future

With its member systems, Tri-State continually reviews new energy efficiency technologies, energy codes, regulations and the market to ensure the EEC program design meets the needs of consumers and rural industries. In mid-2008 and again in January of 2009 Tri-State modified the EEC program to better meet the needs of Members and consumers. These 2010 changes continue that effort. A report by a Tri-State consultant on the opportunities for energy efficiency in the territory we serve will be completed in February of 2010. Depending on the results of that report there may be mid-year changes during 2010 along with the regular 2011 cycle.

Federal mandates are overtaking some of our present offerings. Minimum electric motor efficiencies are moving up to current premium efficiency levels as of December 2010. Incandescent light bulbs will be phased out in 2012 to 2014, with compact fluorescent lamps likely to become the standard. Other technologies such as LED lighting are evolving, with prices dropping and performance improving. In general, rebate levels will need to be adjusted and new technologies added as we go forward with the EEC program.

Additional resources

Tri-State members-only Web site:
www.tristategt.org/members/eec-program.cfm

State energy efficiency Web sites:

- The Governor's Energy Office
1580 Logan St., Suite 100, Denver, CO 80203
www.colorado.gov/energy/
303-866-2100
- Energy Conservation and Management Division
1220 S. St. Francis Dr., Santa Fe, NM 87505
www.emnrd.state.nm.us/ECMD/index.htm
505-476-3310
- Nebraska Energy Office
1111 "O" St., Suite 223, Lincoln NE 68508
www.neo.ne.gov
402-471-2867



- Wyoming Business Council
214 W. 15th St., Cheyenne, WY 82002-0240
www.wyomingbusiness.org/business/energy.aspx
307-777-2800

Energy Star Web site: www.energystar.gov/

Tri-State Energy Efficiency Credits staff:

- **Eligibility and specifications:**
Keith Emerson, coordinator/energy marketing/energy services programs, 303-254-3155, kemerson@tristategt.org
- **Rebate applications:**
Karen Green, administrative secretary, 303-254-3366, kgreen@tristategt.org
- **EEC advertising:**
Communications department



2010 Energy Efficiency CREDITS

Purpose

Tri-State's comprehensive energy efficiency offerings to its member systems help consumers better manage energy and lower the association's cost of service. Because Tri-State is a wholesale power supplier, the association works closely with its membership to develop cost-effective programs that meet the unique needs of rural consumers across four states.

Tri-State's Energy Efficiency Credits (EEC) program has been in place since 1985 as a means to encourage and reward energy-efficient purchases and practices. The program provides consumers cash rebates when they install more efficient lighting, heating and cooling systems, and high-efficiency motors in irrigation, commercial and industrial applications. Tri-State has reduced approximately 75 megawatts in demand and saved 80,000 megawatt-hours in energy through its EEC program.


As new energy-saving devices are marketed to consumers, Tri-State continues to widen EEC eligibility.




Any Tri-State member may choose to participate, and may tailor the program to meet its specific goals. Most members offer additional incentives to their customers, enhancing the Tri-State EEC program.



EEC application guidelines

- EECs are available to all end-use customer classes.
- Credit must be requested within 180 days of installation, except where noted or pre-approved required.
- Credits apply only to permanent, new or replacement customer installations.
- An Energy Efficiency Credit Application/Certification is required. A consolidated check will be sent to the Tri-State member, who will be responsible for payment to the end-user and the generation of any tax-related information.

Eligible installations	Specifications	EEC amount
Electric heat pump: Central air source 	<ul style="list-style-type: none"> Equal or higher than 8.2 HSPE, 14.5 SEER and 12 EER for split systems Equal or higher than 8.0 HSPE, 14 SEER and 11 EER for single package equipment 	<ul style="list-style-type: none"> \$125/ton with electric resistance backup \$100/unit additional incentive for central air source with integrated controlled ETS backup in lieu of a separate ETS incentive \$150/ton for central air source with non-electric backup \$150/unit additional incentive for Energy Star rating (minimum 3 tons) \$50/unit additional incentive for load control by the utility Members are encouraged, but not required, to contribute \$50/ton for central units \$85 for terminal units
Electric heat pump: Central ground water source	<ul style="list-style-type: none"> Equal or higher than 3.6 COP and 16.2 EER 	<ul style="list-style-type: none"> \$150/ton \$150/unit additional incentive for Energy Star rating (minimum 3 tons) \$50/unit additional incentive for load control by the utility Members are encouraged, but not required, to contribute \$50/ton for central units
Electric heat pump: Central ground source closed-loop	<ul style="list-style-type: none"> Equal or higher than 3.3 COP and 14.1 EER 	<ul style="list-style-type: none"> \$150/ton \$150/unit additional incentive for Energy Star rating (minimum 3 tons) \$50/unit additional incentive for load control by the utility Members are encouraged, but not required, to contribute \$50/ton for central units
Electric thermal storage		<ul style="list-style-type: none"> \$16/kW for units controlled by timers or master control system + \$4/kW member payment
Thermal slab		<ul style="list-style-type: none"> \$12/kW for slabs controlled by timers or master control system + \$4/kW member payment
Commercial lighting replacement	<ul style="list-style-type: none"> Only one project per member customer account per year Per project cap of \$20,000 	<ul style="list-style-type: none"> Lower of: <ul style="list-style-type: none"> 50% of fixture/lamp cost or \$300/kW saved
LED lighting retrofit for refrigerated case doors	<ul style="list-style-type: none"> Cap per customer account location of \$3,000 	<ul style="list-style-type: none"> \$60 per case door Maximum of 50 doors per customer
LED street lighting	<ul style="list-style-type: none"> Only one project per member customer account per year Minimum light output equivalent to a 150 W HPS Must meet IES design standards Per project cap of \$20,000 Must be grid connected 	<ul style="list-style-type: none"> Lower of: <ul style="list-style-type: none"> 1/4 of head material cost or \$200/head
LED security light retrofit pilot	<ul style="list-style-type: none"> Mercury vapor yard/securitylight/lamp replacement 	<ul style="list-style-type: none"> \$25 per lamp Up to 25 units/member Program cap of \$27,500
LED commercial lighting pilot	<ul style="list-style-type: none"> Retrofit only, not new construction Per project cap of \$5,000 	<ul style="list-style-type: none"> Lower of: <ul style="list-style-type: none"> 1/3 LED fixture/lamp cost or \$80 per fixture

Eligible installations	Specifications	EEC amount
Electric water heaters and heat pump water heater pilot 	<ul style="list-style-type: none"> Minimum 30-gallon capacity and 6-year tank warranty Minimum utility load control or time-of-day meter relaying should cycle units off between 1 and 10 p.m. daily A limited number of Energy Star air-source heat pump water heaters will receive larger subsidies (see "Pilot Program" materials) 	<p>Basic Unit</p> <ul style="list-style-type: none"> \$50/unit + \$20/unit member payment \$25 per unit additional incentive for units controlled by timers or low wattage elements (3,000 watts maximum) \$25 per unit additional incentive for lifetime tank warranty \$75 per unit additional incentive for utility control by means of a time-of-day meter or load control signal <p>Heat Pump (geothermal) powered or waste heat</p> <ul style="list-style-type: none"> \$100/unit for primary heating by direct exchange ground source or heat pump waste heat + \$20/unit member payment <p>HPWH (air source) pilot</p> <ul style="list-style-type: none"> Cost of unit itself, capped at \$1,500.00 Capped at 30 units
Refrigerators, freezers, clothes washers and dishwashers - Energy Star rated	<ul style="list-style-type: none"> A complete list of qualified equipment is available at www.energystar.gov Check with your state energy office for possible additional rebate availability 	<ul style="list-style-type: none"> \$40/unit, refrigerators, freezers \$40/unit addition for refrigerator/freezer recycling \$40/unit for clothes washers \$30/unit for dishwashers
Energy Star compact fluorescent light bulbs (lamps) 	<ul style="list-style-type: none"> Lamps purchased through Tri-State's discount purchase agreement, member's supplier or member's retail program partner Members may order up to 10 recycling buckets 	<ul style="list-style-type: none"> \$1/lamp
LED holiday lighting	<ul style="list-style-type: none"> Light strings purchased from supplier pre-qualified by Tri-State, or member's own supplier 	<ul style="list-style-type: none"> \$1 per string of less than 50 lights \$2 per string of 50 or more lights
Premium efficiency electric motors 	<ul style="list-style-type: none"> Minimum 10 horsepower, operating at minimum of 15% load factor or 3 months per year Member manager and customer must certify motor is new, and not rewound or moved from another location Efficiency ratings for premium general purpose motors conform to NEMA Publication MG1, revised in 2003 (available upon request) Tables are available for motors not covered by NEMA efficiency requirements, including those larger than 500 horsepower 	<ul style="list-style-type: none"> \$12/horsepower up to 200 horsepower, \$8/horsepower for 201-1,000 horsepower, member payment for NEMA and Special Purpose Premium Efficiency Motors Members shall contribute \$2.00 per horsepower up to a maximum of \$1,000 \$1.50/horsepower wiring assistance if the motor replaces a fossil-fueled engine, or is a new installation Incentives for motors larger than 1,000 horsepower are capped at \$8,000 plus \$1,500 for any applicable wiring assistance
Split system air conditioners - Energy Star rated	<ul style="list-style-type: none"> A complete list of qualified equipment is available at www.energystar.gov Minimum equipment size is 3 tons 	<ul style="list-style-type: none"> \$150/unit split system Energy Star rated air conditioners \$50/unit for load control by the utility
Energy Efficiency kits	<ul style="list-style-type: none"> Minimum contents defined for two types of kits in program materials 	<ul style="list-style-type: none"> \$4 per kit, purchased by the member, that meets or exceeds certain minimum requirements
Smart Grid Pilot	<ul style="list-style-type: none"> 2010 application required 	<ul style="list-style-type: none"> Pilot program cap of \$50,000