

Energy Management Resources

EPA Region 7 Pollution Prevention
Roundtable

October 28, 2008

Federal Programs

- Emergency Economic Stabilization Act of 2008
 - Signed on October 3, 2008
 - Extends tax credits for -
 - Windows
 - Doors
 - Roofs
 - Insulation
 - HVAC
 - Non-solar water heaters
 - Available for projects January 1 through December 31, 2009
 - Maximum amount from all tax credits is \$500 over the lifetime of the tax credit (2006, 2007, and 2009)
 - http://www.energystar.gov/index.cfm?c=products.pr_tax_credits

USDA Section 9006

- Renewable Energy and Energy Efficiency Program
- Part of the Farm Security and Rural Investment Act of 2002 (Farm Bill)
- Funds grants and guaranteed loans to agricultural producers and rural small business for renewable energy systems and energy efficiency improvements
- Available in all 50 states and territories

USDA Section 9006 (cont)

- May apply for a grant, guaranteed loan, or combination of both
- Grant cannot exceed 25% of the eligible project costs
 - Renewable energy - \$2,500-\$500,000
 - EE - \$1,500-\$250,000
- Loan guarantees for up to 50% of eligible project costs; \$5,000-\$10 million/project
- Combined projects cannot exceed 50% of eligible project costs

USDA Section 9006 – By State

State	Number of Loans/Grants	\$ Total
Iowa	79	\$5,143,014
Kansas	16	\$502,871
Missouri	14	\$628,059
Nebraska	170	\$2,102,441
Total*	279 (44%)	\$8,376,385 (24%)

*Total for program was 639 grants, \$35 million, in 43 states and one territory

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Iowa

- DSIRE Database
 - Corporate Tax Credit [Renewable Energy Production Tax Credits \(Corporate\)](#)
 - Excise Tax Incentive [Energy Replacement Generation Tax Exemption](#)
 - Personal Tax Credit [Renewable Energy Production Tax Credit \(Personal\)](#)
 - Property Tax Assessment [Local Option - Special Assessment of Wind Energy Devices](#)
 - Property Tax Exemption
 - [Methane Gas Conversion Property Tax Exemption](#)
 - [Property Tax Exemption for Renewable Energy Systems](#)
 - Sales Tax Exemption [Wind and Solar Energy Equipment Exemption](#)
 - State Grant Program [Grants for Energy Efficiency and Renewable Energy Research](#)
 - Iowa-based universities, colleges, community colleges, and nonprofit energy organizations
 - Since 1991, 319 grants, \$26,355,000
 - State Loan Program
 - [Alternate Energy Revolving Loan Program](#)
 - Only for construction of new renewable energy projects within Iowa
 - Residential, commercial, industrials, schools
 - Funds up to 50%, up to \$250,000
 - Since 1996, 80 projects (25 pending); \$142M (\$10.9M funded through program); 1.7 GWh (1.2 GWh from biomass projects)
 - [Iowa Energy Bank](#)
 - Public agencies and non-profit organizations
 - Will be changed to Be Smart program, which will include the State of Iowa Facility Improvement Corporation
 - Since 1989, \$145M in implemented project, cost savings of \$14.5M/year
 - State of Iowa Facility Improvement Corporation - \$54M in implemented projects, cost savings of \$10.8M/year
 - Utility Loan Program
 - [Alliant Energy - Low Interest Energy Efficiency Financing](#);
<http://www.alliantenergy.com/docs/groups/public/documents/pub/p014682.hcsp>
 - \$1,500-\$25,000 (not including installation)
 - Interest rates range from 0-60 months, with 0-6.9% APR
 - [MidAmerican Energy - BusinessCheck Energy Efficiency Program](#)
 - [MidAmerican Energy - EnergyAdvantage Financing Program](#)
 - Utility Rate Discount [Indianola Municipal Utilities - Good Cents Rate Discount Program](#)

Iowa Utility Rebate Programs

- [Alliant Energy](#)
 - [Business Energy Efficiency Rebate Programs](#)
 - [Farm Equipment Energy Efficiency Incentives](#)
 - [New Home Construction Incentives](#)
 - [Residential Energy Efficiency Rebate Programs](#)
- [Ames Electric Department](#)
 - [Commercial Lighting Rebates](#)
 - [Residential Energy Efficiency Programs](#)
- [Cedar Falls Utilities - Residential Energy Efficiency Rebate Program](#)
- [Independence Light & Power - Renewable Energy Rebate](#)
- [Indianola Municipal Utilities](#)
 - [Commercial Energy Efficiency Rebate Program](#)
 - [Residential Energy Efficiency Rebate Program](#)
- [Linn County Rural Electric Cooperative - Energy Efficiency Rebate Program](#)
- [MidAmerican Energy](#)
 - [Commercial New Construction Energy Efficiency Program](#)
 - [Custom Systems Energy Efficiency Program](#)
 - [Lighting Equipment Program](#)
 - [Motors and Variable Speed Drives Energy Efficiency Program](#)
 - [New Home Energy Efficiency Program](#)
 - [Residential Energy Efficiency Rebates](#)
- [Missouri River Energy Service Member Utilities - Commercial and Industrial Efficiency Rebates](#)
- [Muscatine Power and Water](#)
 - [Commercial and Industrial Energy Efficiency Rebates](#)
 - [Muscatine Power and Water - Residential Energy Efficiency Rebates](#)
- [Residential Energy Efficiency Rebate Program \(Offered by 12 Rural Electric Cooperatives\)](#)
- [Waverly Light & Power - Residential Energy Efficiency Rebates](#)

Iowa Electric Cooperatives

- [http://www.iowarec.org/about us/areas we serve](http://www.iowarec.org/about_us/areas_we_serve)
- 37 distribution cooperatives, 6 generation and transmission cooperatives, 650,000 Iowans in 99 counties
- Rebates on water heaters, ground-source heat pumps, ACs, residential lighting, solar and wind systems, conservation grants (Farmers Electric), energy-efficiency loans (North West REC), load management switches

Kansas

- DSIRE Database

- Property Tax Exemption

- [Renewable Energy Property Tax Exemption](#)

- State Loan Program

- [Kansas Energy Efficiency Program \(KEEP\)](#)

- Utility Rebate Program

- [Kansas City Power & Light - Commercial/Industrial Energy Efficiency Rebate Program](#)

- Kansas – over 100 projects; total payout of \$1.4 M; approximately 18 million kWh

- <http://www.kcpl.com/business/aegonline.html>

- [Kansas City Power & Light - Energy Optimizer Program](#)

- Programmable thermostat w/ installation

- <http://www.kcpl.com/residential/acc.html>

Kansas Energy Efficiency Program (KEEP)

- Kansas Housing Resources Corporation (<http://www.kshousingcorp.org/programs/KEEP.shtml>) and Sunflower Bank
- Interest free loans to qualified Kansas homeowners to make energy efficiency improvements
- Low interest free rates on KHRC funds translates into a lower blended rate
- KHRC funds half the loaned amount, up to \$10,000
- Interested applicants apply directly to the lender, Sunflower Bank www.sunflowerbank.com.
- 107 loans approved since 11/06

Facility Conservation Improvement Program

- Kansas Corporation Commission
- Any public agency
 - State agencies
 - Municipalities
 - Counties
 - Schools (private technical schools are eligible, as well)

FCIP – What is it?

- Energy Savings Performance Contracting
 - Energy Service Company (ESCO) identifies and evaluates energy-saving opportunities
 - Facilities enter into agreements and pay for improvements through savings
 - ESCO guarantees the savings and pays the difference if savings are not realized
- FCIP has completed 50-60 projects worth \$150M, and saves \$12M annually

FCIP-Eligible Projects

- Interior and exterior lighting retrofits
- Occupancy sensors
- LED Exit sign installations or retrofits
- HVAC system upgrades or retrofits
- Conversion to variable air volume systems
- Fan and pump improvements or replacements
- Ground or water source heat pumps
- Variable speed motor drives
- Chiller replacements
- Cooling tower retrofits
- Heat recovery systems
- Boiler controls improvements
- Energy management/ building automation control systems
- Low water using toilets, urinals, low-flow aerators and showerheads
- Window retrofits
- Building insulation
- On-site generation
- Motor replacements
- Meter installation

FCIP Contact Information

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Kansas Electric Cooperatives

- KS Electric Program Borrowers
(<http://www.usda.gov/rus/electric/borrowers/ks.htm>)
 - Kaw Valley Rural Electric – free hot water heater, load management credit
 - Water heater/heat pump rebates:
 - Brown-Atchison Electric Cooperative
 - Sumner-Cowley Electric Cooperative
 - Flint Hills Rural Electric Cooperative
 - Ark Valley Electric Cooperative
 - Ninnescah Electric Cooperative
 - Many more...

Missouri

- DSIRE Database
 - Corporate Tax Credit [Wood Energy Production Credit](#)
 - Personal Deduction [Tax Deduction for Home Energy Efficiency Improvements](#)
 - Sales Tax Exemption [Sales Tax Holiday for Energy-Efficient Appliances](#)
 - State Loan Program [Energy Loan Program](#)
 - <http://www.dnr.mo.gov/energy/financial/loan.htm>
 - Public institutions only
 - Funding varies, but this year would fund up to \$1M individually, \$3.8M cumulatively
 - Since 1989, 478 projects; \$80M; \$146M energy savings
 - Utility Loan Program
 - [Columbia Water & Light - Super Saver Loans](#) – 23-year-old program, 1,400 loans in last 15 years
 - Furnaces, heat pumps, air conditioners, duct/air sealing, building insulation, windows, doors
 - Low-interest loans (2-4%), five-year period
 - 35% reduced rate for installation of high-efficiency heat pump (Oct-May)
 - Laclede Gas - Loan Programs for Energy Efficiency
 - Clothes washers/dryers, dishwasher, refrigerator/freezers, water heaters, furnaces, air conditioners, caulking/weather-stripping, building insulation, doors
 - Insulation financing: up to \$2,000 at 3% interest
 - EnergyWise Dealer: up to \$10,000, with 5% down payment
 - EnergyWise expanded to include low-income residential rental property manager (no-interest loan, no loan inspection costs, reimbursement on down payment)

Missouri – Utility Rebates

- [City Utilities of Springfield \(http://www.cityutilities.net/conserves/rebates.htm\)](http://www.cityutilities.net/conserves/rebates.htm)
 - [Commercial Energy Efficiency Rebate Program](#)
 - EnergyWise Grant program – up to \$50,000 for nonprofit organization
 - Efficient toilet rebate - \$50 or \$75
 - Programmable thermostat rebate - \$15
 - Irrigation system rain sensor rebate - \$25
 - Commercial lighting rebate – high bay – up to \$5,000
 - Commercial lighting rebate – T12 to T8 – up to \$5,000
 - [Residential Energy Efficiency Rebate Program](#)
 - EnergyStar home rating service - \$350 for two on-site inspections
 - Central AC rebate - \$100/Ton and \$25/SEER over 14
 - Natural gas furnace rebate – up to \$400
 - Air-source heat pump rebate - \$100/Ton and \$25/SEER over 14
 - Geothermal heat pump rebate - \$200/Ton and \$25/SEER over 14
 - Preseason HVAC tune-up rebate – up to \$60
 - Efficient toilet rebate - \$50 or \$75
 - Programmable thermostat rebate - \$15
 - Insulation upgrade rebate – 20%, up to \$300
 - Irrigation system rain sensor rebate - \$25
 - HomeSense energy audits - \$100
- [Columbia Water & Light](#)
 - [Commercial Lighting Rebate Program \(http://www.gocolumbiamo.com/WaterandLight/Business/lightincentive.php\)](http://www.gocolumbiamo.com/WaterandLight/Business/lightincentive.php)
 - Large General Service (rate “D”) or Industrial Service (rate “I”)
 - Must be at least a 10kW reduction
 - One half the cost of the lighting retrofit, or \$100/kW, up to \$5,000
 - [Home Performance with Energy Star Rebates](#)
 - [New Energy Star Home Rebate \(http://www.gocolumbiamo.com/WaterandLight/Conservation/newhomeNRGstar.php\)](http://www.gocolumbiamo.com/WaterandLight/Conservation/newhomeNRGstar.php)
 - \$1,000 rebate for meeting EnergyStar new home requirements
 - [Solar & Efficiency Rebates \(http://www.gocolumbiamo.com/WaterandLight/Conservation/rebateprograms.php\)](http://www.gocolumbiamo.com/WaterandLight/Conservation/rebateprograms.php)
 - AC/Heat Pump - \$100-\$1600
 - Solar Water Heater - \$400-\$800
 - Photovoltaic System - \$500/kW
 - [Low-Interest Commercial Loans for Energy Improvements \(not in DSIRE\) \(http://www.gocolumbiamo.com/WaterandLight/Business/commercialenergyloans.php\)](http://www.gocolumbiamo.com/WaterandLight/Business/commercialenergyloans.php)
 - Up to \$20,000 to add insulation, high-efficiency heating and cooling system, and heat pumps
 - Free energyaudit

Missouri – Utility Rebates (cont)

- [Co-Mo Electric Cooperative - Ground-Source Heat Pump Rebate Program](#)
- [Empire Distric Electric](#)
 - [Commercial and Industrial Efficiency Rebates](#)
 - [Low Income New Homes Program](#)
 - [Residential High Efficiency Air Conditioner Rebate](#)
- [Independence Power and Light - Residential Energy Efficiency Rebate](#)
- [Intercounty Electric Cooperative - Residential Energy Efficiency Rebate Program](#)
- [Kansas City Power & Light](#)
 - [Commercial/Industrial Energy Efficiency Rebate Program](#)
 - [Cool Homes Program](#)
 - [Energy Optimizer Programs](#)
 - [Home Performance with Energy Star](#)
- [Kirkwood Electric - Residential Energy Efficiency Rebate Program](#)
- [Laclede Gas Company - Energy Efficient Appliance and HVAC Equipment Rebate Program](#)
- [Ozark Border Electric Cooperative - Residential Energy Efficiency Rebate Program](#)
- [Platte-Clay Electric Cooperative - Residential Energy Efficiency Rebate](#)

Missouri Electric Co-ops

- <http://www.amec.org/coops.html>
- 40 distribution cooperatives, 2,000 to 40,000 members
- Rebates for water heaters, add-on heat pumps, geothermal heat pumps rebates, Energy Star appliances

Nebraska

- DSIRE Database
 - Sales Tax Exemption
 - [Sales and Use Tax Exemption for Community Wind Projects](#)
 - State Loan Program (<http://www.neo.ne.gov/loan/>)
 - [Dollar and Energy Savings Loans](#)
 - Since 1990, 24,577 projects; \$194,401,992
 - Utility Rebate Program
 - [Omaha Public Power District - Commercial Heat Pump Program](#)
 - \$100/ton
 - Since 1995, approximately 15,000 tons (13 counties)
 - [Omaha Public Power District - Residential Energy Efficiency Rebate Program](#)
 - \$250/unit (1.5 tons or more; SEER >13); Energy Conservation Rate (5 years)
 - Since 1992, over 30,000 customers (13 counties)
 - [Twin Valleys Public Power District - Residential Energy Efficiency Rebate Program](#)
 - \$500/unit for air/ground heat pump; \$100/unit for heat pump water heating
 - 80-85 rebates in last five years (6 rural counties)

Nebraska

- Nebraska Public Power District Energy Wise (http://www.nppd.com/energy_efficiency/energywise/default.asp)
 - Lighting program: \$10-\$75/fixture
 - Heat pump program: \$200-\$400 rebate (can combine with Twin Valley)
 - Refrigerator recycling: \$35/unit (limit 2)
 - Limited area

Nebraska Electric Cooperatives

- <http://www.nrea.org/systems/>
- 35 power districts and electric cooperatives
- Rebates for heat pumps, water heaters, electric motors, electric water heater credits, discounted electric rates, commercial lighting incentives, CFL coupons
- Goodwill fund (<http://www.cornhusker-power.com/goodwillfund.asp>) – not related to energy efficiency, but still a cool idea!

Other Resources

- State Department of Commerce
 - 11/16/08, Bank of North Dakota, received \$85,500 from Department of Commerce (from Office of Renewable Energy and Energy Efficiency); geothermal wells, separate ventilation systems for non-business hours, motion sensitive lighting systems and various heat pumps together with motion sensitive lighting systems
 - Wisconsin Department of Commerce and Office of Energy Independence

Region 7

- 06/16/08, Nebraska Department of Economic Development, Community Development Block Grant,
 - \$4.5 M for 29 projects, including energy-efficient windows and doors, \$900,000 for water and wastewater projects
- Alliance to Save Energy – state updates (<http://www.ase.org/content/article/detail/5076>)