

Energy Efficiency for Businesses

Speakers

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Moderator

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Webcast logistics

- Can't hear? Use your phone. Click on the phone button and dial the number/pin number. Mute your line.
- Ask questions by typing them into the long text box at the bottom of the screen and pressing enter.
- Questions? Call the help-desk at 785-532-7722
- Presentation will be archived, survey sent via email

K-State's Pollution Prevention Institute (PPI)

PPI services

- Multimedia (air, waste, water, energy, GHG inventory and reporting, EMS)
- Environmental compliance assistance
- Free to small- and medium- sized businesses
- Confidential
- Staff located throughout the state



Kansas City Lunch and Learns funded by the EPA through a Pollution Prevention grant

How it all fits...

Kansas State University

- College of Engineering
 - Engineering Extension
 - Pollution Prevention Institute (PPI)
 - Small Business Environmental Assistance Program (SBEAP)

Contact Information:

Web site: www.sbeap.org

Hotline: 1-800-578-8898

Email: sbeap@ksu.edu

Energy Management Resources

- DSIRE Database
 - KCP&L
- USDA Renewable Energy and Energy Efficiency Program
- KCC Facility Conservation Improvement Program
- K-State P2/E2 Intern Program

DSIRE Database

- Database of State Incentives for Renewables & Efficiency
- Provides
 - Federal and State Incentives
 - Financial Incentives
 - Rules, regulations, and policies
 - Related programs and initiatives
 - Green Power Network
 - Wind Powering America
- <http://www.dsireusa.org/>

DSIRE - Kansas

- Property tax exemption for renewable energy equipment (K.A.S. 79-201)
- KCP&L
 - 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>
 - Energy optimizer program
 - Programmable thermostat w/ installation
 - <http://www.kcpl.com/residential/acc.html>
- Alternative fuel and vehicle incentives

USDA Section 9006 Program

- Renewable Energy and Energy Efficiency Program
- Part of the Farm Security and Rural Investment Act of 2002 (the 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 Program (cont)

- May apply for a grant, guaranteed loan, or combination of both
- Grant must not 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 Program (cont)

- In first three years, USDA awarded 435 grants totaling \$66.7 million in 36 states
- At end of FY05, two loan guarantees for \$10,100,000
- Kansas – 16/21 projects funded for \$500,000

USDA Section 9006 Eligibility

- Rural – population less than 50,000 inhabitants
- Ag producer – individual or entity directly engaged in production of ag products, whereby 50% or more of their gross income is derived from the operations
- Small business – SBA small business size standards by NAICS code
(http://www.sba.gov/idc/groups/public/documents/sba_homepage/serv_sstd_tablepdf.pdf)
- Demonstrated financial need (for grants)

USDA Section 9006 Contact Information

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<http://www.rurdev.usda.gov/rbs/farmbill/index.html>

Facility Conservation Improvement Program

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

FCIP (cont)

- 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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<http://www.kcc.state.ks.us/energy/fcip/index.htm>

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K-State P2/E2 Intern Program

- PPI links engineering students with businesses
- Projects focus on reductions in energy, emissions, and/or waste
- Interns work with company for 10 weeks during summer
- Company provides \$12/hr of intern's salary (approximately \$5,280)

K-State P2/E2 Intern Program - Results

Pollution Prevention Impacts	2006	2007	2008 (preliminary)	Total
Water conservation	N/A	30.4 million gallons	187.1 million gallons	217.5 million gallons
Waste reduction	1,025 tons	5,344 tons	407 tons	6,776 tons
Energy conservation	2,129,524 kWh	1,603,000 kWh	3,076,600 kWh	6,809,124 kWh
Operating/ Disposal savings	\$0.38-0.46 million	\$1.2 million	\$2.3 million	\$3.88-3.96 million

K-State P2/E2 Intern Program Contact Information

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Questions?

