B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

Energy Efficiency
for Commercial Buildings

October 2012

Contents

Schools 2

Offices 3

Grocery 4

Lodging 5

Retail 6

Foodservice 7

Commercial Incentives . . 8

Custom Projects 9

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Energy Efficiency for Commercial Buildings

October 2012

THE BONNEVILLE POWER ADMINISTRATION offers several incentives for the installation of qualified energy-efficient equipment that lowers energy use and reduces operating costs for your commercial customers.

The commercial sector offers a wide range of conservation measures and programs that empower utilities to meet their commercial conservation goals. These include energy efficient lighting, refrigeration, HVAC, and appliances. Measures are also available that target offices, including smart power strips and computer power management.

Small and large businesses benefit from various reimbursements designed for office spaces, schools, hotels, shops, grocery stores and more. Reimbursements are available for both deemed measures and custom projects. Many larger commercial retrofit and new construction opportunities are ideal candidates for the custom project path.

Read on to understand what reimbursements are available for commercial applications and how they can be used to help your customers. The measures are organized by potential building types, although many measures are more broadly applicable. For the latest in-depth information on any given measure or program, please refer to the Energy Efficiency Implementation Manual.

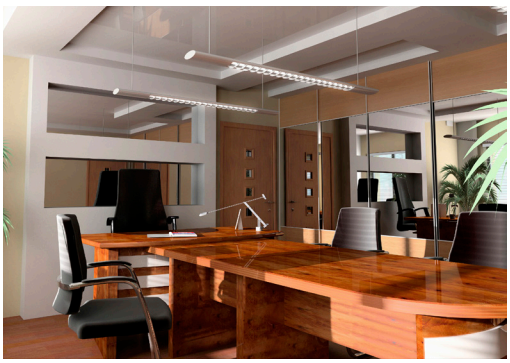
The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

School

Please see p. 4 for more refrigeration system reimbursements.

Equipment and Efficiency Type	Reimbursement
Ductless Heat Pump	$250/ton
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton
Unitary AC Equipment	$45-$1,500/unit
Web-enabled Programable Thermostats (for modular classrooms)	$100-275/unit
Vending Machine Controller	$90/unit
Commercial Ice Maker	$40-$300/unit
Commercial Kitchen Steamer	$100-$200/unit
Commercial Kitchen Hot Food Holding Cabinet	$200-$400/unit
Combination Oven	$1,750/unit
Convection Oven	$200/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Electric Fryer	$125/unit
Commercial Dishwasher	$100-$750/unit
Electric Storage Water Heater	$25/unit
Refrigerator and Freezer Decommissioning	$100/unit
Pre-Rinse Spray Valve	$100/unit
LED Exit Sign or Retrofit Kit	$50/unit
Network PC Power Management	$10/workstation
Lighting Calculator	See calculator

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.



Office

Equipment and Efficiency Type	Reimbursement
Ductless Heat Pump	$250/ton
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton
Unitary AC Equipment	$45-1,500/unit
Network Computer Power Management	$10/workstation
Smart Power Strip	$15/power strip
Insulation in Existing Small Office or Retail Building	$0.21-$0.82/square ft of area insulated
Small Commercial Retrofit Window	$3-$6/sq. ft. of window
Commercial Ice Maker	$40-$300/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Refrigerator and Freezer Decommissioning	$100/unit
Electric Storage Water Heater	$25/unit
Commercial Showerhead	$30.60/unit
ENERGY STAR CFL - Direct Install	$5/CFL
ENERGY STAR CFL - End-user Reimbursement	$2.50/CFL
LED Exit Sign or Retrofit Kit	$50/unit
Vending Machine Controller	$90/unit
Lighting Calculator	See calculator

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Grocery and Refrigeration

Equipment and Efficiency Type	Reimbursement
Add Refrigeration Doors	$130/linear ft. of case
Anti-sweat Heat Controller	$40-50/linear ft. of case
Case Lighting upgrade: T10/T12 to T8	$12.75-$22.50/lamp
Case Lighting delamping: T12 or T8 in Open Refrigerated Display Case	$5/linear ft. of LED tube
Case Lighting upgrade: LEDs in Existing Reach-in Refrigerated Case	$10-$25/linear ft.
Case Lighting upgrade: LEDs in New Reach-in Refrigerated Case	$10/linear ft.
Case Lighting upgrade: T12 Magnetic to Electronic Ballast	$15/lamp
Case Lighting: LEDs in Existing Open Refrigerated Display Case	$7-$24/linear ft.
Case Lighting: LEDs in New Open Refrigerated Display Case	$5-$11.50/linear ft.
ECM for Compressor Head Fan	$50/motor
EnergySmart Grocer	Varies, see program
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Evaporator Fan Controller on ECM for Walk-in	$35/motor
Evaporator Fan Controller on Shaded Pole Motor for Walk-in	$25/motor
Evaporator Motor Replace Shaded Pole with ECM in Walk-in	$140/motor
Evaporator Motor Replace Shaded Pole with ECM in Display Case	$80/motor
Floating Head Pressure Control on Condensing Unit for Single Compressor System	$100/hp
Floating Head Pressure Control on Remote Condensor for Single Compressor System	$60/hp
LED Motion Sensors for Reach-in Refrigerated Case	$2/linear ft. of lamp
Lighting Calculator	See calculator
Refrigeration Auto Door Closer	$25-$150/closer
Refrigeration Gasket Replacement	$25-$65/door
Replace Shaded Pole motor with Permanent Split Capacitor in Reach-in	$25/motor
Replace Shaded Pole Motor with Permanent Split Capacitor in Walk-in	$40/motor
Strip Curtain	$9/ sq. ft. of door area
Vending Machine Controller	$90/unit

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Lodging

Equipment and Efficiency Type	Reimbursement
Ductless Heat Pump	$250/ton
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton
Unitary AC Equipment	$45-$1,500/unit
Commercial Ice Maker	$40-$300/unit
Commercial Showerhead	$30.60/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$100/unit
Refrigerator and Freezer Decommissioning	$100/unit
Vending Machine Control	$90/unit
LED Exit Sign or Retrofit Kit	$50/unit
ENERGY STAR CFL - Direct Install	$4/unit
ENERGY STAR CFL - End-user Reimbursement	$2.50/unit
Lighting Calculator	See calculator

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Retail

Please see p. 4 for more refrigeration system reimbursements.

Equipment and Efficiency Type	Reimbursement
Ductless Heat Pump	$250/ton
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton
Unitary AC Equipment	$45-$1,500/unit
Insulation in Existing Small Office or Retail Buildings	$0.21-$0.82/square ft of area insulated
Small Commercial Retrofit Window	$3-$6/square foot of window
Commercial Ice Maker	$40-$300/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Refrigerator and Freezer Decommissioning	$100/unit
Vending Machine Control	$90/unit
LED Exit Sign or Retrofit Kit	$50/unit
ENERGY STAR CFL - Direct Install	$5/unit
ENERGY STAR CFL - End-user Reimbursement	$2.50/unit
Lighting Calculator	See calculator

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Food Service

Please see p. 4 for more refrigeration system reimbursements.

Equipment and Efficiency Type	Reimbursement
Refrigerator and Freezer Decommissioning	$100/unit
Commercial Ice Maker	$40-$300/unit
Commercial Dishwasher	$100-750/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Electric Fryer	$125/unit
Convection Oven	$200/unit
Combination Oven	$1,750/unit
Commercial Kitchen Steamer	$100-$200/unit
Commercial Kitchen Hot Food Holding Cabinet	$200-$400/unit
Electric Storage Water Heater	$25/unit
Pre-Rinse Spray Valves	$100/unit
Vending Machine Controller	$90/unit
LED Exit Sign or Retrofit Kit	$50/unit
ENERGY STAR CFL - Direct Install	$5/unit
ENERGY STAR CFL - End-user Reimbursement	$2.50/unit
Lighting Calculator	See calculator
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

General Commercial Incentives

Equipment and Efficiency Type	Reimbursement
Ductless Heat Pump	$250/ton
Heat Pump Conversion	$250/ton
Heat Pump Upgrade	$100/ton
Unitary AC Equipment	$45-$1,500/unit
Web-enabled Programable Thermostats (for modular classrooms)	$100-275/unit
Small Commercial Retrofit Window	$3-$6/sq. ft. of window
Vending Machine Controller	$90/unit
Commercial Ice Maker	$40-$300/unit
Commercial Kitchen Steamer	$100-$200/unit
Commercial Kitchen Hot Food Holding Cabinet	$200-$400/unit
Combination Oven	$1,750/unit
Convection Oven	$200/unit
ENERGY STAR Commercial Freezer	$100-$350/unit
ENERGY STAR Commercial Refrigerator	$50-$150/unit
Electric Fryer	$125/unit
Commercial Dishwasher	$100-$750/unit
Electric Storage Water Heater	$25/unit
Refrigerator and Freezer Decommissioning	$100/unit
Pre-Rinse Spray Valve	$100/unit
LED Exit Sign or Retrofit Kit	$50/unit
Lighting Calculator	See calculator
EnergySmart Grocer	Varies, see program
Clothes Washer	$25-200/unit

Contact

For more information on commercial incentives, contact your Energy Efficiency Rep.

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

Custom Projects

Help your customers save money and energy through custom project support and reimbursements.

What qualifies as a Custom Project?

Commercial custom projects encompass retrofit, expansion and new construction energy efficiency projects. This program helps your customers acquire and install the most energy efficient equipment available. Any measures not covered by the deemed measure programs qualify as custom projects if they meet the custom project requirements.

What financial incentives are available for energy savings?

BPA provides reimbursements for verified energy savings. Reimbursements range from $0.025/kWh to $0.35/kWh, depending on measure life, up to 70% of incremental project cost. In addition, these projects may qualify for federal, state, and/or local tax credits.

How does the Custom Project process work?

1. Proposal development

The utility works with its customer to develop a custom project proposal, including estimated project energy savings, project cost, and measurement & verification (M&V) plan. The BPA customer service engineer may be available to provide technical advice in proposal development.

2. Proposal submittal

The utility submits the proposal to BPA for review and approval.

3. Project implementation

The utility works with its customer to complete the project. The order and purchase date of equipment must be after BPA approval of the custom project proposal.

4. Project close-out

The measurement and verification (M&V) are completed and the custom project completion report is prepared. The BPA customer service engineer may be available to provide technical advice during the project close-out.

5. Project completion

The utility submits the completion report to BPA for review and acceptance. Final reimbursement is based on the accepted completion report data.

The information provided in these materials is meant to provide an broad overview of energy efficiency reimbursement opportunities for utilities. Refer to the Energy Efficiency Implementation Manual for a complete description of measures, incentives, specifications and requirements.

www.bpa.gov

DOE/BP-4408 • September 2012