#### 1. Program Description

This program promotes the purchase of high-efficiency equipment by commercial and industrial customers in both existing and new facilities. It offers rebates to offset the higher purchase cost of efficient equipment and is organized into five program components for delivery:

- Heating, ventilation and air conditioning (HVAC)
- Lighting
- Motors and drives
- Commercial kitchen equipment
- Other (including building insulation and additional equipment not covered by the other components)

The program is delivered in partnership with a network of trade allies specifying, selling and installing qualified equipment. The program targets replacement and first-time purchases, but also is available to customers making retrofit installations. Participation is largely dealer-driven; that is, equipment dealers up-sell customers to energy-efficient measures when they are in the market to buy equipment. The program also utilizes a program contractor to provide support functions.

# 2. **Operations**

This program relies primarily on equipment dealers that sell qualifying measures to deliver the program. Dealers promote the program, help customers understand the features and benefits of qualifying equipment specify and install equipment and help customers fill out program applications.

The program is fairly streamlined. Key steps include:

- Ensuring that selected equipment meets program qualifications,
- Completing program applications,
- Processing rebate checks and
- Verifying equipment installation for a sample of participants.

The program will employ a program contractor to provide a range of support functions, including processing applications, tracking program data, answering questions from dealers and customers, verifying equipment installations and processing rebates. MidAmerican energy efficiency staff provide overall strategic direction for the program, and – supported by additional contractors – research and development, promotion, trade ally support, evaluation and other administrative functions.

# 3. Value Proposition

Customers participating in the program receive three main benefits:

- The process is *simple and straightforward*. Equipment rebates are accessible to any qualifying customer for any qualifying equipment.
- Customers *save money* in the short term through rebates and in the long term through lower utility bills.
- Customers *receive reliable advice* about energy-efficient equipment from trade allies knowledgeable about program measures and procedures.

#### 4. Customer Targets

This program targets all nonresidential customers as well as building owners and property managers of nonresidential facilities. In addition, landlords installing larger equipment for master-metered multifamily buildings may use this program. The program is available to customers replacing existing equipment or purchasing equipment for the first time, as well as to customers retrofitting existing, working equipment. Program measures must save energy supplied directly by MidAmerican. Transportation gas customers with daily metering are ineligible for gas measures; however, customers with monthly metering under the Monthly Metered Transportation Service gas tariff are eligible for energy efficiency incentives.

Table 1 outlines customer eligibility requirements.

	Electric Equipment	Natural Gas Equipment
Customer Class	Nonresidential electric rates	Nonresidential natural gas rates; Gas transportation customers with daily metering are ineligible
Customer Status	Building or business owners; Landlords of customers	Building or business owners; Landlords of customers
Business Type	All	All
Building Type	All	All
Building Vintage	Existing and new construction	Existing and new construction
Geography Installed in MidAmerican South Dakota electric territory		Installed in MidAmerican South Dakota gas territory
Size	All All	

Table 1Customer Eligibility Parameters

#### 5. Trade Ally Targets

Any business that sells or installs qualifying equipment within MidAmerican's service territory may participate in the program. The following types of trade allies are predominant:

- HVAC equipment distributors, dealers and service providers
- Plumbing and mechanical dealers
- Lighting distributors and dealers
- Electrical dealers
- Motor and variable-speed drive distributors and dealers
- Boiler and water heater distributors and dealers
- Commercial kitchen equipment suppliers
- Insulation installers
- Engineering firms
- Architects

Trade allies play a key role in implementing the program. To support its trade allies and keep them informed of program opportunities and changes, MidAmerican will maintain an active trade ally program.

# 6. Eligible Measures

Table 2 provides the categories of measures that MidAmerican expects to include in the Nonresidential Equipment program. For each category, MidAmerican will develop minimum eligibility requirements, leveraging ENERGY STAR<sup>®</sup> guidelines where appropriate. In addition to these measures, MidAmerican will offer a supplementary rebate for installation of heating and cooling equipment that meets industry-accepted standards for quality installation. MidAmerican performs an annual review of qualifying equipment and may adjust measures and eligibility levels in the future as market conditions and equipment standards change.

Types of Englote Equipment				
HVAC	Lighting	Motors	Commercial Kitchen	Other
Unitary air conditioners; Chillers; Room air conditioners; Air-source heat pumps; Ground-source heat pumps; Water-source heat pumps; Water-source heat pumps; Natural gas furnaces; Natural gas boilers; Natural gas water heaters; Programmable thermostats; Quality installations	T-5 fixtures; T-8 fixtures; Pulse-start metal halide fixtures; LED exit signs; Occupancy sensors;	Premium efficiency motors; Variable-speed drives	Hot food holding cabinets; Fryers; Commercial refrigerators; Ice makers; Dishwashers; Commercial freezers	Wall insulation; Ceiling insulation;

Table 2Types of Eligible Equipment

# 7. Market Barriers

Table 3 presents the key market barriers to a successful nonresidential equipment program, as well as the strategies the program uses to address each barrier. Note these program strategies can only partially offset the identified barriers.

Market Barriers	Program Strategies
Higher first cost of energy-efficient equipment	Offer rebates; Educate customers on the long-term energy cost savings of higher efficiency equipment
Time required to fill out rebate forms	Provide simple rebate forms through a variety of media (mail-in, online fillable forms);
Lack of customer awareness	Program promotion/advertising; Dealer and service provider outreach
Customers don't look for qualifying measures	Trade ally training to help customers quickly identify appropriate measures and products; In-store brochures and other materials such as rebate application forms.
Low dealer awareness	Ongoing dealer communications and outreach
Trade allies not up-selling to high- efficiency equipment	Provide trade ally training and outreach to explain the benefits of selling higher efficiency equipment;
Lack of availability of premium equipment	Trade ally outreach
Customers don't understand the long-term value of high-efficiency equipment	Train trade allies to explain life-cycle costs to customers;
Landlord-tenant problem resulting from split-incentives	Offer higher rebates for tenant-occupied space

Table 3Market Barriers and Strategies

# 8. Financial Incentives

The program provides rebates to program participants installing qualifying equipment. Rebates are defined in units appropriate to each measure; most rebates are defined per device, but others are defined per unit of equipment size (e.g., per Btu of heating capacity for large boilers) or with increasing levels for equipment with higher efficiency. Additional incentives will encourage quality installation practices for specific heating and cooling equipment. MidAmerican performs an annual review of rebate levels and performance criteria and may adjust rebates in the future as market conditions change.

#### 9. **Promotion**

This program relies primarily on point-of-sale dealer information for promotion. MidAmerican will meet with targeted trade allies to promote the program and also distribute brochures that outline the program's features, benefits, eligibility requirements and financial incentives. MidAmerican will have separate sales brochures for each program component. The program will also be promoted through bill inserts and on a dedicated Web page on MidAmerican's corporate Web site.

#### 10. Participation

Table 4 provides program participation assumptions.

	2009	2010	2011
Electric Measures*			
HVAC			
Air Conditioners/Heat Pumps	4	10	13
Quality Installations	-	1	2
Thermostats	1	2	3
Lighting			
Fluorescent Fixtures	133	312	379
Metal Halide Lamps/Fixtures	4	8	11
Traffic Light Fixtures	6	11	9
Motors			
Efficient Motors	1	3	4
Adjustable-Speed Drives	1	3	4
Natural Gas Measures*			
Furnaces	37	83	100
Boilers	4	6	7
Quality Installations	-	21	60
Water Heaters	3	5	5
Thermostats	22	33	39

Table 4 Participation

\*Other measures are eligible and are likely to also occur in South Dakota.

# 11. Energy and Demand Savings

Table 5 provides energy and demand savings goals.

Table 5		
Cumulative Energy and Demand Savings		

	2009	2010	2011
Electric Impacts			
Annual Energy (kWh)	210,333	791,675	1,544,736
Peak Demand (kW)	40	149	291
Natural Gas Impacts			
Annual Energy (therms)	14,573	42,667	77,307
Peak-Day Demand (therms)	169	500	910

# 12. Budget

Table 6 provides program budget assumptions.

	Budget (\$000)		
	2009	2010	2011
Electric Budget			
Planning & Design	\$5,000	\$0	\$0
Administration	\$2,000	\$3,000	\$2,000
Advertising & Promotion	\$0	\$0	\$0
Customer Incentives	\$8,000	\$21,000	\$27,000
Monitoring & Evaluation	\$0	\$0	\$0
Equipment	\$0	\$0	\$0
Installation	\$0	\$0	\$0
Electric Total	\$15,000	\$24,000	\$29,000
Natural Gas Budget			
Planning & Design	\$14,000	\$0	\$0
Administration	\$3,000	\$3,000	\$3,000
Advertising & Promotion	\$1,000	\$1,000	\$1,000
Customer Incentives	\$20,000	\$40,000	\$51,000
Monitoring & Evaluation	\$1,000	\$2,000	\$1,000
Equipment	\$0	\$0	\$0
Installation	\$0	\$0	\$0
Natural Gas Total	\$39,000	\$46,000	\$56,000
Total Budget			
Planning & Design	\$19,000	\$0	\$0
Administration	\$5,000	\$6,000	\$5,000
Advertising & Promotion	\$1,000	\$1,000	\$1,000
Customer Incentives	\$28,000	\$61,000	\$78,000
Monitoring & Evaluation	\$1,000	\$2,000	\$1,000
Equipment	\$0	\$0	\$0
Installation	\$0	\$0	\$0
Total	\$54,000	\$70,000	\$85,000

Table 6 Budget (\$000)

# 13. Cost-Effectiveness Results

Table 7 provides program cost-effectiveness results.

<b>Cost-Effectiveness Results</b>		
Test	B/C Ratio	
Participant	1.76	
Utility	8.80	
Ratepayer Impact Measure	1.44	
Total Resource	2.25	
Societal	3.09	

Table 7Cost-Effectiveness Results