ASHRAE Seminar – Practical Ways to Save Energy April 23, 2013

MidAmerican Energy's EnergyAdvantage Programs





Agenda

- Overview of EnergyAdvantage Programs
 - Nonresidential Equipment
 - Custom Systems
 - Business Check
 - Nonresidential Energy Analysis / EfficiencyPartners
- Trade Ally Outreach Initiative
- Connecting the Dots EE State Programs and Resources





EnergyAdvantage

Programs at a Glance





DSM Programs 101

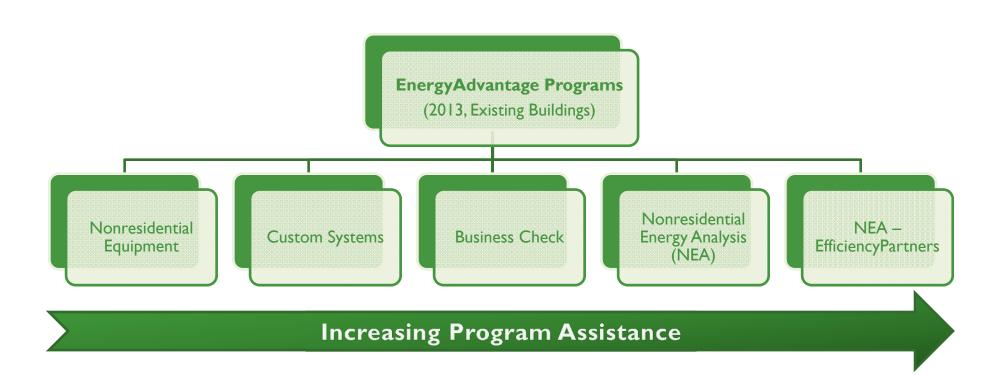
- Why does MidAmerican Energy have these programs?
 - Required by the lowa Utilities Board for investor-owned utilities
 - Delays/eliminates the need to build new generation
- Who oversees these programs?
 - Regulated by Iowa Utilities Board, administered by local utility
- How are they paid for and what is the benefit it provides to MidAmerican Energy customers?
 - Surcharge imbedded in the rates
 - Energy Efficiency funds given back to participants in the form of incentives and technical support
 - Fosters "partner" relationship between utility, vendors, and the customer



Energy Efficiency Program Design

	Comm	nercial	Industrial		
Small	Small Business Direct Install		Prescriptive	Opportunity	Small
Medium	Building Tune Up	Prescriptive	/ Custom	Assessment	Medium
Large	RCx	/ Custom	Strategic Energy		Large
New Construction	Commercial New Construction		Management		Very Large

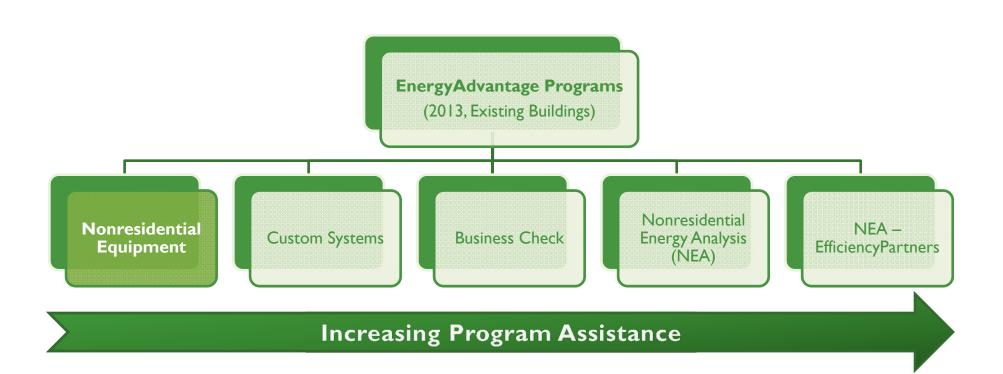
MidAmerican's Portfolio of Programs







Nonresidential Equipment







Nonresidential Equipment

• Who

All MidAmerican nonresidential customers

What

- Lighting Equipment
- Motors
- Variable-Speed Drives
- Heating and Cooling Equipment
- Commercial Kitchen Equipment
- Building Shell



Nonresidential Equipment

How

- Application submitted after installation with supporting invoices
- Equipment specifications required for certain technologies
- M&V required if incentive exceeds \$20,000

Why

- Simple and straightforward
- No preapproval required

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 Predetermined incentives for qualifying equipment (\$/lamp, \$/hp, etc.) Single project or system that has established prescriptive rebate

Prescriptive Equipment Program

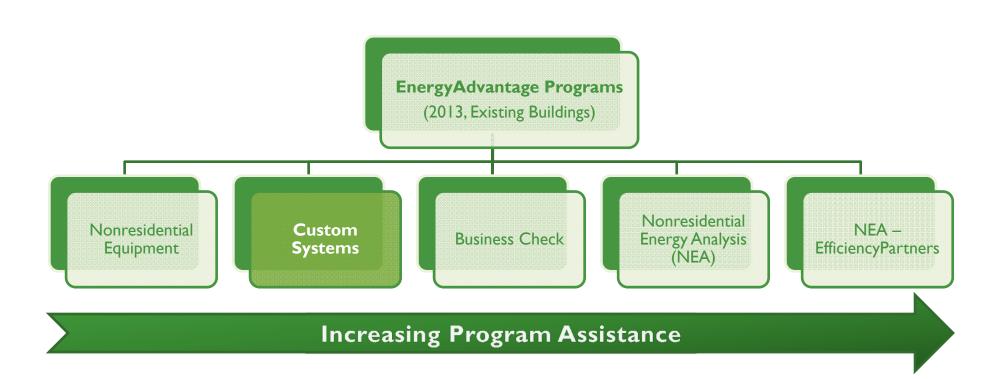
Purchase and Install Equipment

Equipment Rebate Application

Measurement and Verification
(as required)



Custom Systems







Custom Systems

Who

All MidAmerican nonresidential customers

What

- Non-Prescriptive Projects:
 - Lighting redesign
 - Motors > 200 horsepower
 - Compressed Air
 - HVAC System Conversions
 - Refrigeration
 - Building/Process Controls
 - Production improvements and additions



Custom System

How

- Preapproval required
- Supporting calculations for estimated energy savings and cost estimates must accompany application
- M&V required if incentive exceeds \$20,000

Why

- Custom incentives for non-prescriptive projects
- Projects can be identified from building assessments funded by MidAmerican

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- Buy down the project's simple payback to 2 years
- Capped at 3-years of annual energy savings

Custom System Program

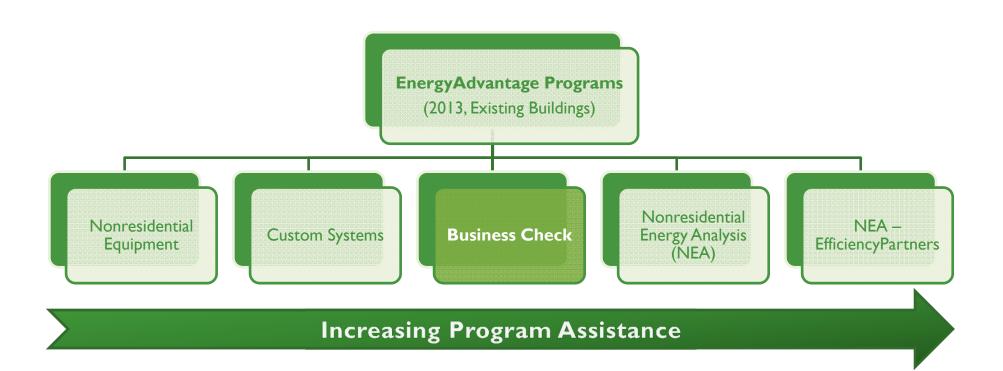
Custom System Preapproval Application

Purchase and Install
Equipment
(preapproval required)

Measurement and Verification (as required)



Business Check







Business Check

Who

MidAmerican commercial business customers up to 50,000 sf

What

- Free business energy evaluation
- Free direct installations
- Assessment report with energy savings recommendations and information about rebate opportunities
- Special financial incentives

BUSINESSCHECK* ENERGY ASSESSMENT REPORT | ENHANCE YOUR BOTTOM LINE WITH ENERGY EFFICIENCY RECOMMENDED ENERGY SAVING OPPORTUNITIES | DETAIL



Business Check

How

- Conduct your own online analysis to learn more
- Call to request your Business Check assessment

Why

- Trustworthy energy-savings advice
- Immediate cost savings from direct installations
- Long-term savings and increased property value
- Special financial Incentives

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- Enhanced incentives for lighting and insulation
- Information regarding standard Nonresidential Equipment program incentives
- Assistance with Custom Systems incentives

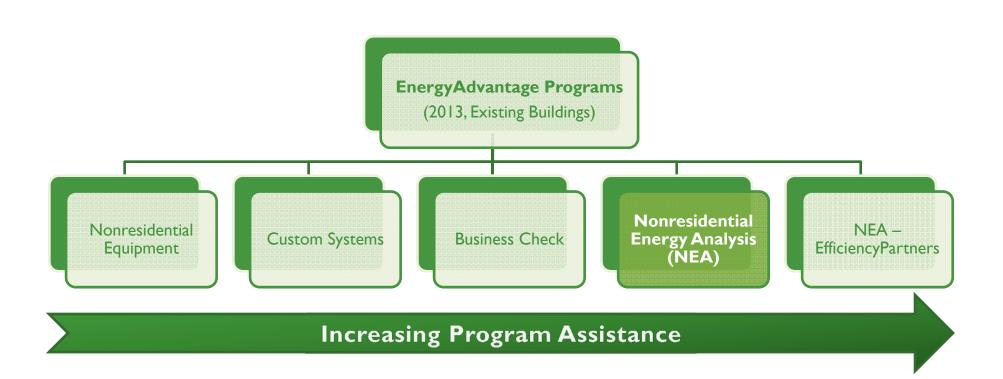
Complete Free Business
Check Assessment

Receive Assessment Report

Utilize Standard, Custom, and Enhanced Incentives



Nonresidential Energy Analysis







Nonresidential Energy Analysis

Who

 MidAmerican commercial customers larger than 50,000 sf and all industrial customers

What

- Financial and technical support for individual detailed studies of large equipment systems
- A scoping-level, facility-wide energy assessment at no cost to the customer

Energy Assessment
Identified
Opportunities

"Prescriptive"
Nonresidential
Equipment Program

Custom Systems
Program

EfficiencyPartners
Track of the
Nonresidential Energy
Analysis Program

Detailed Study
Identified
Opportunities

"Prescriptive"
Nonresidential
Equipment Program

Custom Systems
Program



NEA – Detailed Study

What

 Investment-grade analysis of a single building system (CAS, refrigeration, process heating/cooling, etc.)

How

- Submit study for preapproval
- Initiate study and submit findings to receive firsthalf study incentive
- Implement projects to receive second-half study and project incentives

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 Incentives to reimburse the full cost of qualifying studies, not to exceed \$25,000





NEA – Facility Assessment

3500 104th Street Urbandale, IA 50322 (P) 515-252-5555 (E) KAM@midamerican.com

What

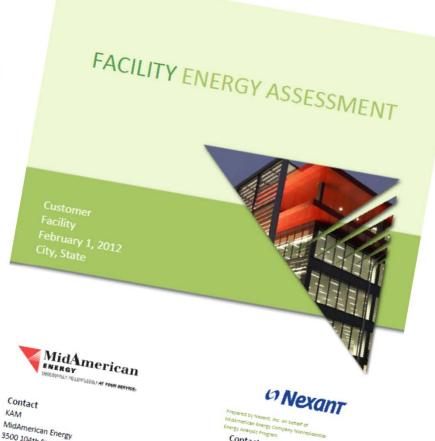
 No-cost ASHRAE Level II facility energy assessment to identify detailed studies and project opportunities

How

- Complete application
- Participate in comprehensive facility assessment
- Receive written report of recommended energy-saving projects and detailed study opportunities

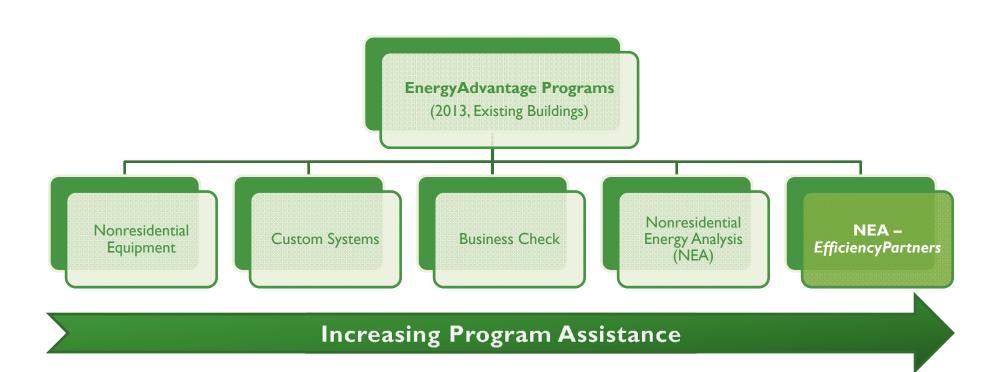
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- No-cost facility energy assessment
- Enrollment into the EfficiencyPartners program to receive enhanced project incentives



Preserve by Nesan, inc. on behalf of Middle-bridge Beerg Company Novembers Contact
Contact
Engineer
Nexant, Inc.
Nexant, Inc.
1232 Fourier Drive, Suite 125
Madison, WI 53717
(P) 608-824-5555
(E) Engineer@nexant.com

NEA – Efficiency Partners







NEA – Efficiency Partners

Who

- MidAmerican commercial customers larger than 50,000 sf and all industrial customers
- Have completed a no-cost facilitywide energy assessment through the NEA program

What

 A partnership with MidAmerican to create a comprehensive facility wide energy efficiency plan including multiple projects



NEA – Efficiency Partners

How

- Develop Memorandum of Understanding and develop a project action plan
- Select projects for implementation while following program guidelines from Custom Systems and Nonresidential Equipment programs

Why

- No-cost technical assistance with:
 - Completing incentive applications
 - Locating equipment vendors
 - Preparing requests for price quotations
 - Evaluating vendor proposals
 - · Reviewing feasibility of projects and detailed studies
 - Measurement and verification of project performance and energy savings
- Eligible for best available incentives

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- Buy down the project's simple payback to one year
- Capped at 4 years of annual energy savings





For More Information...

www.midamericanenergy.com/ee

- Program Information
- Enrollment Applications
- Project Forms
- Contact Information





MidAmerican EnergyAdvantage

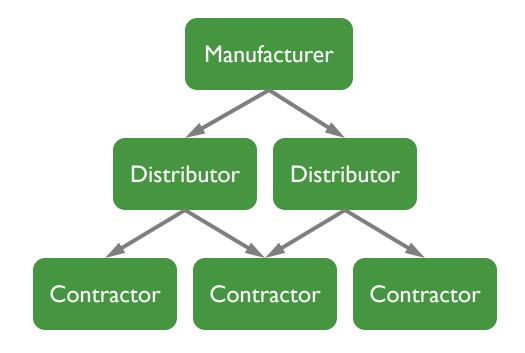
Trade Ally Outreach Program





What is a Trade Ally?

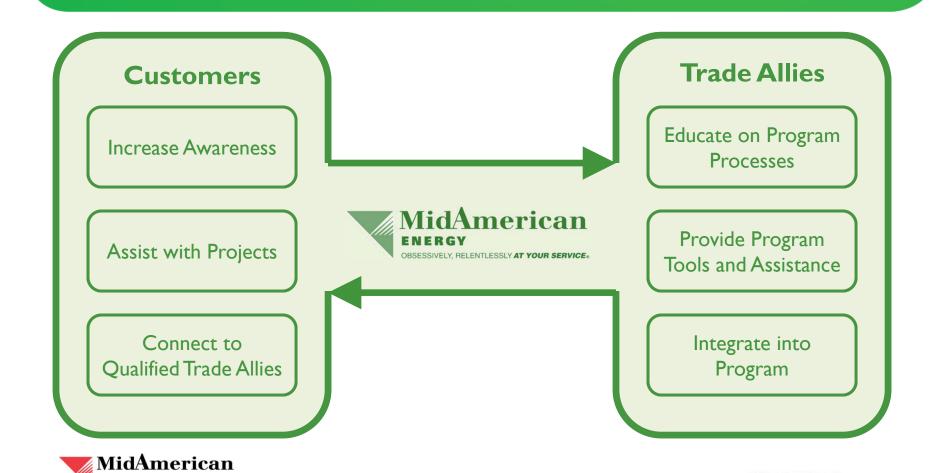
- Contractors/Installers
- Engineering Firms
- Architects
- Vendors
- Distributors
- Manufacturers







Program Strategy



OBSESSIVELY, RELENTLESSLY AT YOUR SERVICE.

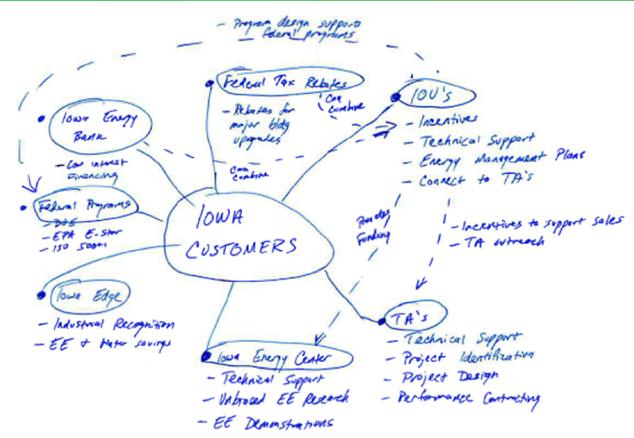


Connecting the Dots lowa's Energy Efficiency Offerings





Brainstorming...







Energy Efficiency Offerings

Education and Awareness

- IOU Customer Outreach
- Iowa Energy Center
- EPA Portfolio Manager
- DOE Resources

Technical Expertise

- IOU Technical Support
- Trade Allies
- Industrial Assessment Center
- ASHRAE

Customer Opportunities

Financial

- IOU Rebates
- Iowa Energy Bank financing
- Federal Tax Rebates
- Performance Contracting

Recognition

- Iowa EDGE
- EPA Energy Star Challenge
- DOE Better Buildings
- ISO 50001
- USGBC LEED

Energy Management Strategies

NEA Program

EfficiencyPartners® Program Process

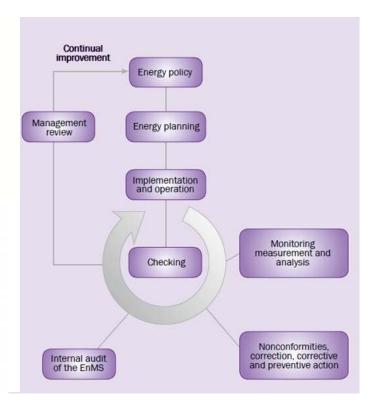
Enroll in Program

Participate in Comprehensive Energy Assessment



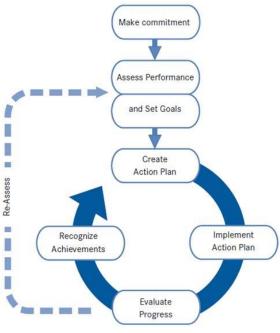


ISO 5000 I



Energy Star

ENERGY STAR
Guidelines for Energy Management





Iowa Energy Efficiency Offerings

Organization	Objective	
Investor Owned Utilities	Energy efficiency programs offer technical and financial support to promote the implementation of energy saving opportunities	
Iowa Energy Center – Energy Resource Station	Unbiased commercial energy efficiency research, testing, and demonstration projects	
Industrial Assessment Center	Free energy assessments for small and medium- sized manufacturing facilities	
Iowa Energy Bank	Low-interest financing for energy efficiency projects at public facilities	
Iowa Economic Development by Gaining Efficiency (EDGE)	Energy management plan development and recognition for industrial facilities	

Commercial Public Building Example

	Iowa Energy Bank	MidAmerican ENERGY OBSESSIVELY, RELENTLESSLY AT YOUR SERVICE.	Iowa Energy Center
Inquiry / Planning		Customer OutreachEnergy management plan assistance	 Technology demonstrations and resources
Facility Assessment	Assessment required for loan approval	• Free NEA energy assessment	B3 benchmarking to assess baseline
Financing	• Low-interest financing	• Enhanced project incentives	
Project Installation		Technical supportTrade Ally Outreach	
Verification	Verification to support loan payments	On-site verification of energy savings	B3 benchmarking to track progress

Manufacturing Example

	IAC	MidAmerican ENERGY OBSESSIVELY, RELENTLESSLY AT YOUR SERVICE.	Iowa EDGE
Inquiry / Planning	Program education	Customer OutreachEnergy managementplan assistance	Energy management plan assistance
Facility Assessment	 Free energy assessment (includes H2O and gas) 	Free NEA energy assessment	
Financing		 Enhanced project incentives 	
Project Installation		Technical supportTrade Ally Outreach	
Verification	Project follow-up	On-site verification of energy savings	 Recognition for achieving energy goals

Questions?

Dennis Krieger
Senior Project Engineer
515.528.8010
dkrieger@nexant.com



