

# Energy Efficiency Is Smart Business

## ENERGY STAR Makes It Simple



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# Agenda

- History of Energy Star
- How can Energy Star help you?
- Energy efficiency categories
- Who can certify your facility as Energy Star?
- Iowa Finance Authority and Energy Star

# What is Energy Star?

- Joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy
- Saves money and protects the environment
- Voluntary labeling program
  - major appliances
  - office equipment
  - lighting
  - home electronics
  - new homes
  - commercial and industrial buildings

# What is Energy Star?

- Products deliver the same or better performance as comparable models while using less energy and saving money
- Easy-to-use home and building assessment tools
- Strict criteria set by the US EPA or the US Department of Energy

# Examples

- Refrigerators are at least 15% more efficient
- TVs consume 3 watts or less when switched off, while standard TV consumes almost 6 watts
- Office equipment with a "sleep" mode
- Light bulbs (CFLs) use 2/3 less energy than a standard incandescent bulb
- Furnaces that are about 15% more efficient than the minimum federal efficiency standard

# How can Energy Star help you?

- A national performance rating system for buildings to benchmark and track energy performance
- Guidance for designing energy efficient buildings
- Advice for developing effective energy management programs

# How can Energy Star help you?

- Case studies and best practices from leading public and private-sector organizations
- Calculators to estimate returns on energy efficiency investments
- Materials to communicate with employees, stakeholders, the media, and other interested parties about energy improvements and benefits to the bottom line and the environment

# Energy Efficiency Categories

- Envelope – boundary between the outside climate and the home's internal environment
- Mechanical Equipment – heating, cooling, water heating and appliances within the home

# Envelope

- Improved Insulation
  - Control the flow of heat
- Tight Construction
  - Control the flow of heat and moisture
- Advanced Windows
  - Control the flow of heat, moisture, and air

# Mechanical Equipment

- High efficiency HVAC
- Right sized HVAC
- Tight ducts
- Whole house ventilation
- Energy efficient appliances

# What are the benefits

- Lower your maintenance costs
- Subcontractors' work is closely inspected by Independent 3rd party
- A 'green' building is very attractive
- Adds value
- Increases discretionary income

# Who can rate your facility as Energy Star?

RESNET (Residential Energy Services NETWORK): certified contractors trained to use the HERS calculations will certify the design is Energy Star.

- Non-profit membership corporation
- National standards making body for building energy efficient rating systems
- Train, certify and maintain standards for the home energy rating officials

# HERS Contractors

- Review builder's plans for energy efficiency
- Evaluate and rate the energy efficiency of buildings
- Provide independent 3rd party inspection and testing
- List of HERS rated contractors can be found at:  
<http://www.resnet.us/directory/raters.aspx>

# Which facilities qualify?

- Any home three stories or less
  - single family
  - attached
  - low-rise multi-family homes
  - special cases

# IFA Compliance

- Iowa Finance Authority (IFA) requires minimum development characteristics on new housing.
- At the credit reservation stage, IFA requires an engineer or architect to certify that the design meets the 2006 IECC.
- The Energy Star rating must be budgeted for in the application and planned for during the design stage.
- A home energy rating performed by a certified Home Energy Rating System HERS rater is required on each building after it is completed to verify that actual construction meets the requirements.

# Information is Power

- Energy prices have become a hot topic
- Energy Star provides knowledge
- Energy Star provides a trustworthy label on over 50 product categories (and thousands of models) for the home and office
- Now trained contractors can certify that your facility is energy efficient too

**The bottom line — good energy management is good business, and adopting an energy management strategy is a business decision you cannot afford to ignore.**

For more information go to the Energy Star website:

<http://www.energystar.gov>