



Northern Virginia Home Performance with ENERGY STAR Program

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Learn more at energystar.gov





Why is a fundamental question in every transaction to improve a home.

Common reasons why:

- ✓ looks bad -- want to replace it
- ✓ stopped working -- need to fix it
- ✓ doesn't meet our needs -- too small, bad floor plan, uncomfortable, etc.
- ✓ increase the value of my home or help me sell it

Is save energy or be green on the top of your customers list?

It may be a desirable attribute, but is it the reason why?



ENERGY STAR is a brand that has been successful promoting energy efficiency as an attribute of products and homes people buy everyday because they want or need them.

Building scientists, engineers and weatherization practitioners have taught us how to improve the energy efficiency of homes...



...and will continue to research and discover better ways to improve them.

They say we need to **start** with a whole-house review with diagnostic tests and software analysis to identify **why** improvements are needed.



A **whole-house** approach can effectively demonstrate **why** air sealing, duct sealing and insulation are needed, and identify **all** the **opportunities** to improve energy efficiency.

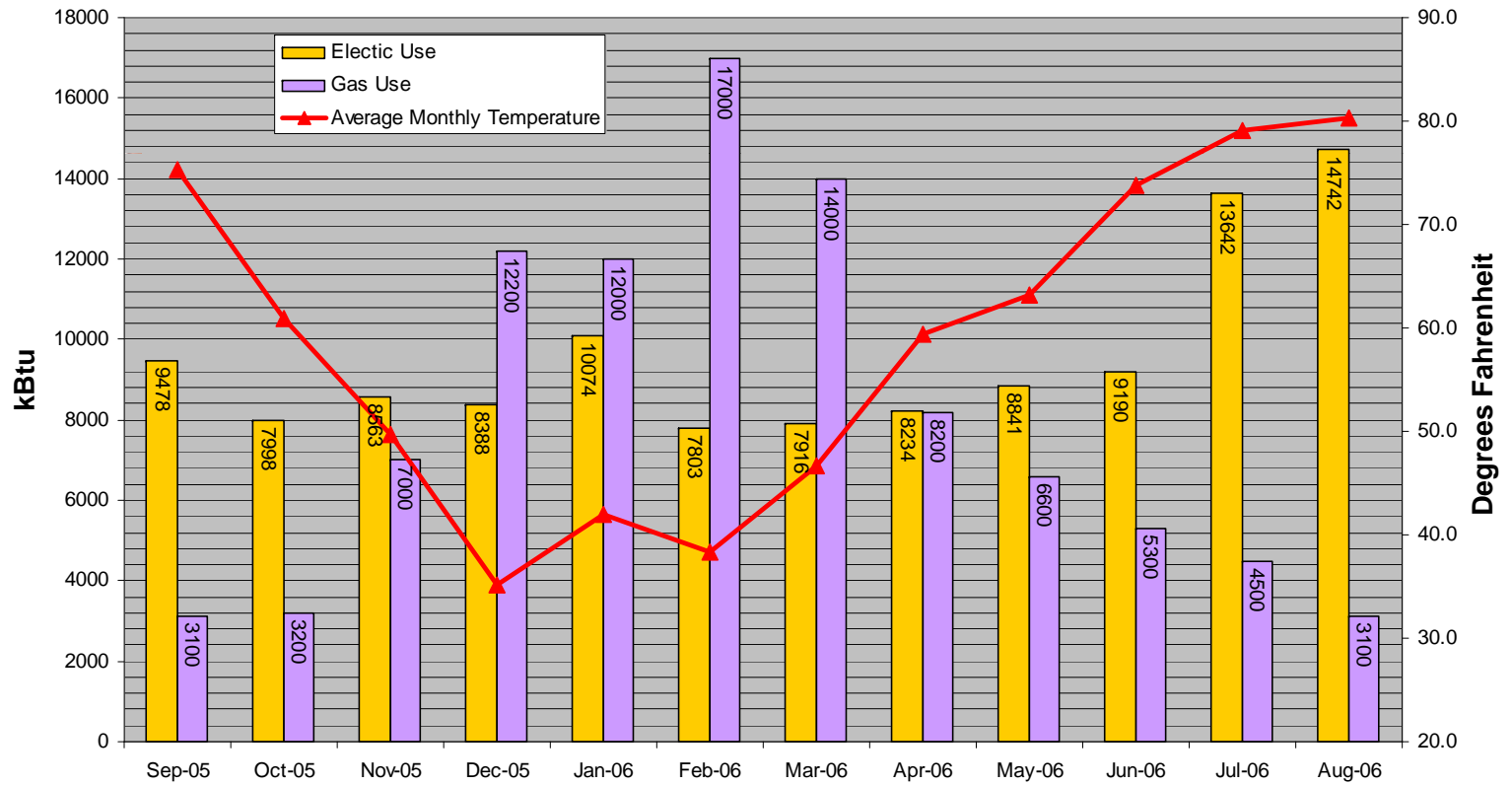


Why is my house sick?



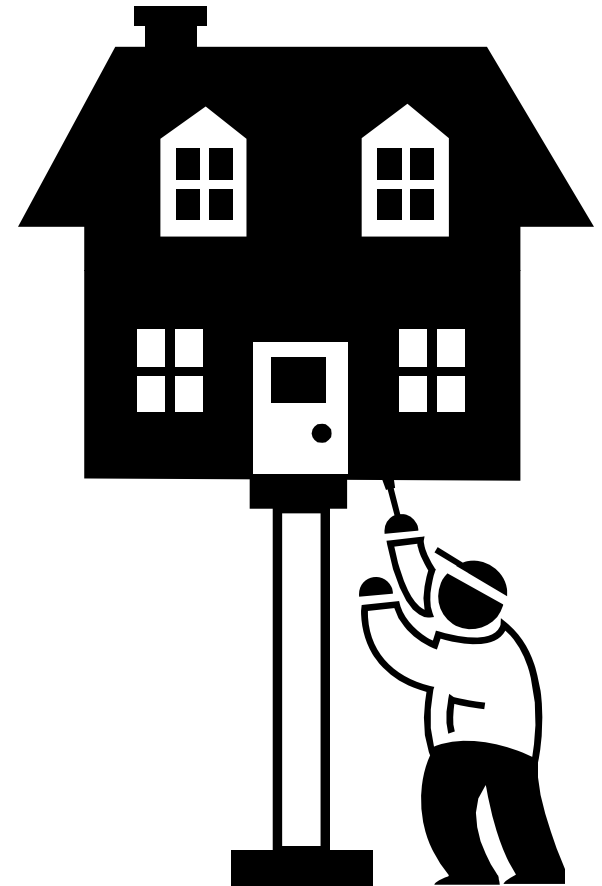
Why are my energy bills high?

Monthly Energy Use and Average Temperature

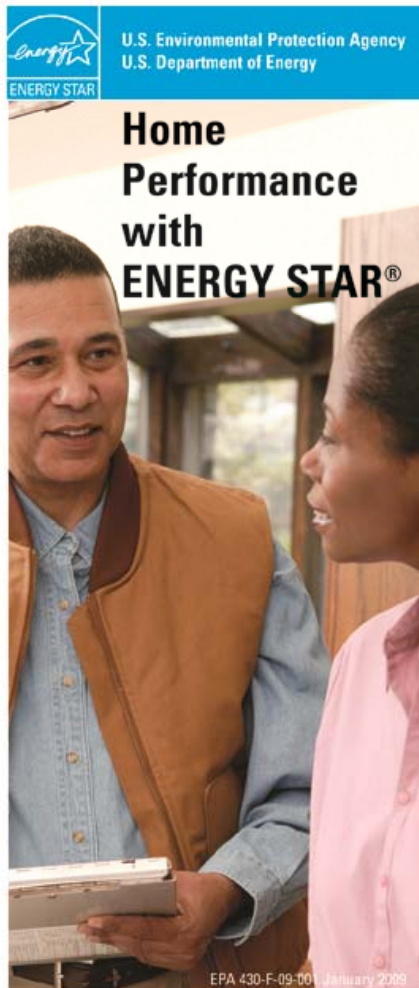


How can I maintain my asset?

- Comfort
- Durability
- Indoor Air Quality
- Resale potential
- Hedge against future energy cost increases



Home Performance with ENERGY STAR



is a marketing platform to encourage homeowners to take a whole-house approach to improving energy efficiency.

WHY?

Because experts recommend it as a proactive strategy to manage your most valuable asset, future energy costs, and improve comfort.



A brand, like ENERGY STAR, is more than a recognizable logo. It is fundamentally about delivering on a promise of energy savings.

Marketing can help convince homeowners why to improve, but how to improve, and who can help them are key to delivering on the promise.

Home Performance with ENERGY STAR



Is more than a marketing campaign.

It is a program model for building a network of specially trained contractors that can fulfill the promise of whole-house improvements that reduce energy cost by at least 20%.

Comprehensive Energy Audit



- Inspect the whole house
 - Specialist trained in building science
 - Problem solving skills
- Diagnose performance problems
 - Completed before work
- Recommend Improvements
 - Summary of Findings
 - Proposed costs and savings



Present Results and Proposal



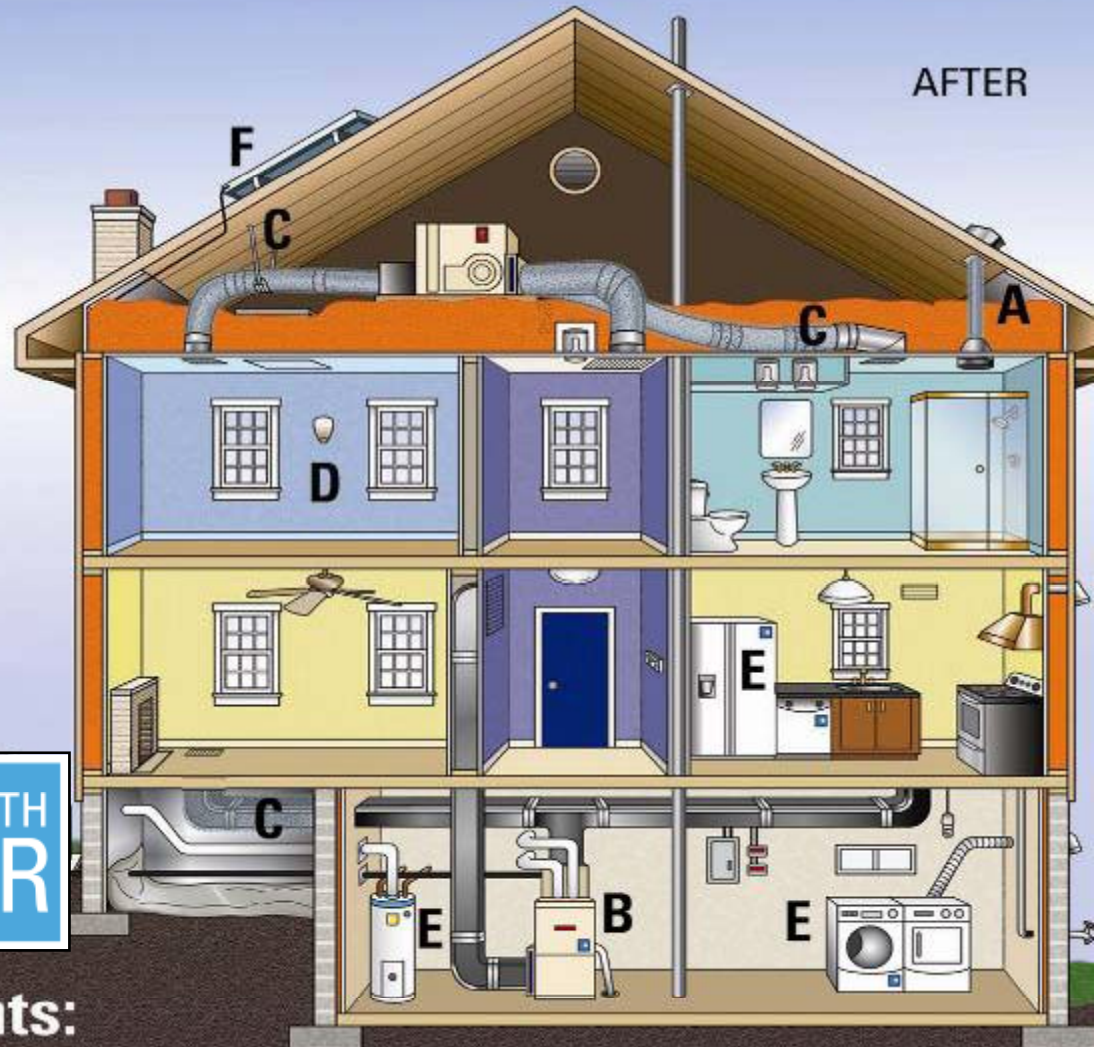
These improvements will reduce your annual energy costs by 20%.

Hmmm? I can be more comfortable and save money.

BEFORE



AFTER



Typical Home Improvements:

- A** Sealing Air Leaks and Adding Insulation
- B** Improving Heating and Cooling Systems
- C** Sealing Ductwork
- D** Replacing Windows
- E** Upgrading Lighting, Appliances, and Water Heating Equipment
- F** Installing Renewable Energy Systems

Post-work “Test-out”



- Test if ventilation meets standards
- Test that gas and oil burning appliances vent properly
- Test how much performance has improved
- Protects the consumer and contractor



Northern Virginia Program



- Package of improvements that saves at least 20% on total energy use.
- Building Performance Institute (BPI) selected to verify contractors meet eligibility criteria
 - Registrations, licensing and/or bonding required by state or local government
 - \$1 million in general inability insurance, Workers compensation insurance;
 - Perform a comprehensive home energy assessment;
 - Install energy efficiency improvements according to standards
 - Use quality management systems to record and track home performance and business metrics
 - Onsite review (additional requirement beyond accreditation)
- BPI Quality Assurance program to inspect 5% of jobs
- Training for contractors and Marketing Campaign

Home Performance Program Components



Supply of Contractors



Consumer Demand



Navigant Consulting
Sentech

ICF International
Cadmus Group
Shelton Group

QA/QC



Performance Systems Development
IBTS
Callahan/Roach & Garofalo
Utility Exchange



Northern Virginia HPwES



- **NoVA HPwES Web site and Marketing Campaign**
Monday, March 15, 2010
- **National Capital Contractor Forum - Growing Your Business in a Difficult Market**
Tuesday, April 6 - 7, 2010
- **BPI Building Envelope Training - Sentech**
Monday, April 12 - 21, 2010



- WHAT TO EXPECT
- TYPICAL IMPROVEMENTS
- FIND A CONTRACTOR
- HOME
- FAMILY STORIES
- WHY A HOME PERFORMANCE CONTRACTOR

Home Performance with ENERGY STAR®

It's the difference between a [home](#) and a [comfortable home](#).

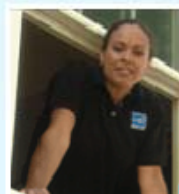
- A difference you'll feel throughout your home,
- A difference you'll see when you open your utility bill each month, and
- A difference you'll experience working with a specially-trained Home Performance with ENERGY STAR contractor.

Choose a home improvement contractor who uses the comprehensive, "whole-house approach" recommended by the government's Home Performance with ENERGY STAR program. These contractors are dedicated to helping you maximize energy efficiency and comfort, while minimizing wasteful spending.

Typical improvements include sealing air leaks and adding insulation; improving heating and cooling systems; repairing ductwork; replacing windows, upgrading lighting, appliances and water heating equipment; and installing renewable energy systems.

Discover the ENERGY STAR difference in your home.

- Utility bill savings of 20% or more
- Fewer drafts and more comfortable rooms
- Work performed by specially trained contractors
- Third-party quality assurance to make sure work gets done right



What to Expect

This short video answers many of the questions you may have about Home Performance with ENERGY STAR.

WATCH



What's Your Score?

Compare your household's energy use to others around the country and get recommendations for improvement.

LAUNCH



Find A Contractor

See list of participating Home Performance contractors in your area.

BECOME A HOME PERFORMANCE CONTRACTOR



YOUR HOME CONTRIBUTES TO THE QUALITY OF OUR ENVIRONMENT

U.S. Environmental Protection Agency · U.S. Department of Energy

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Home Performance with ENERGY STAR Video: A Comprehensive Approach to Home Improvement



[Chapter 1: A Comprehensive Approach to Home Improvement](#)



[Chapter 2: The Evaluation](#)

Length: 1:05

[Captioned Version](#)



[Chapter 3: Air Sealing and Adding Insulation](#)

Length: 1:36

[Captioned Version](#)



[Chapter 5: Ducts](#)

Length: 0:41

[Captioned Version](#)



[Chapter 6: Lighting and Appliances](#)

Length: 0:58

[Captioned Version](#)

WATCH VIDEO ▶



A Comprehensive Approach to Home Improvement



[Chapter 7: Getting the Job Done... Right](#)

Length: 1:23



ENERGY STAR Home Energy Yardstick

WHAT'S YOUR SCORE?

Compare your household's energy use to others across the country and get recommendations for improvement.

What you need to know to get started

- **Your energy use and costs for the last year:** You'll need your last month summary statement from your utility company.
- **Energy sources for your home:** natural gas, electricity, fuel oil, propane, etc.
- **The square footage of your home.**

Your Home

What is your 5-digit zip code?

How many people live in your home?

What is the square footage of your home, including the basement?

[More information](#)

Your Fuel Type

In addition to home use? Select all that apply:

Natural Gas

Fuel Oil

Your Energy Use

Would you like to use **annual** or **monthly** billing information to enter your energy use?

Annual

Monthly

Select the Start Date for the year covered:

Enter Totals for the year:

Electricity kWh

Max 70,000

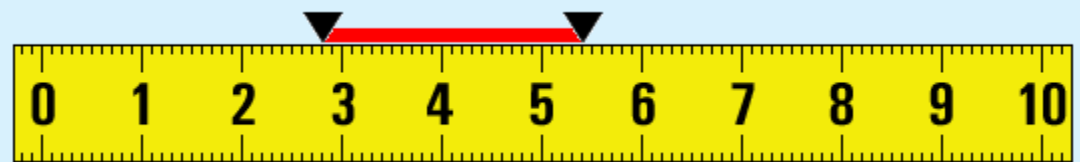
ENERGY STAR Home Energy Yardstick · RESULTS

The Home Energy Yardstick compares a household's energy use to similar homes and gives it a score between 0 and 10 (10 being the most energy efficient). An average household scores a 5.

Yardstick Score: 2.8*

[PRINT THESE RESULTS](#)

Annual pollution resulting from energy use in this household is **10 MtCO₂eq of greenhouse gas emissions** - the equivalent of 2 cars.



About Your Home [\(edit\)](#)

Zip code: 22046
 People living in your Home: 2
 Square Footage: 2,200
 Heating Degree Days: 4109
 Cooling Degree Days: 1623

Energy Use [\(edit\)](#)

Electricity Use: 12,450 kWh Cost: \$0
 Natural Gas Use: 700 Therms Cost: \$0
 Total Source Energy Consumption: 215,171 kBtu

Improve your Score

Set a Goal

Electricity: %

Goal Electricity Use: 9960.00 kWh

Natural Gas: %

Goal Natural Gas Use: 560.00 Therms

[UPDATE SCORE](#)

Set Energy Use Goal

New Yardstick Score:

Total \$ Savings:

Avoided Emissions:

HOME PERFORMANCE WITH ENERGY STAR STORIES



More than 75,000 families have had their homes improved through Home Performance with ENERGY STAR, a comprehensive, whole-house approach to improving energy efficiency and home comfort, while helping to protect the environment. These families are enjoying benefits like, fewer drafts, consistent temperatures across rooms, better ventilation and humidity control, and lower utility bills.

Stories from Home Performance with ENERGY STAR Families



Matt and Lisa Nutting • Fresno, California • Rare Service


When the Nutting family was battling asthma, respiratory problems, mold, and high energy bills, they called a local contractor participating in Home Performance with ENERGY STAR. The contractor, trained to diagnose and fix homes using a 'house as a system' approach, found leaky ducts, poor attic insulation, and unsealed can lights in the ceiling. To improve the health of the family and lower energy bills, the ducts were repaired and replaced, the attic insulation was upgraded, the can lights were sealed and the HVAC unit was replaced. The Nuttings could not be happier with their results.

[Read Full Story](#)  (862KB)

Tell Us Your Story

Does your family have a story to tell about the home improvements you've made through Home Performance with ENERGY STAR? We'd like to hear about your experience.

Share your Story and you might be featured here:

1. [Download](#)  (1.9MB) the Home Performance Profile form.
2. Summarize your improvement efforts and results.
3. Save the completed form by selecting the 'Save As' option under 'File.'
4. Attach the completed form to an email message and send to HomePerformance@energystar.gov with the subject 'ENERGY STAR Home Performance Profile.'
5. If you like, also attach a picture of your house or family.



DOWNLOAD 



Home Performance with ENERGY STAR.[®]

It's the difference between a home and a **comfortable home.**

- Maximize energy efficiency
- Minimize wasteful spending
- Protect the environment

Discover the ENERGY STAR difference in your home.
To find a specially-trained home improvement contractor, visit
NoVAHomePerformance.com.

ENERGY STAR, sponsored by the U.S. Environmental Protection Agency and the U.S. Department of Energy, helps us all save money and protect our environment. Learn more at www.energystar.gov.



HOME PERFORMANCE WITH
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