



IMERY GROUP

PROMOTING SUSTAINABLE LIVING

www.imerygroup.com

Do you know your Home's MPG?

Agenda

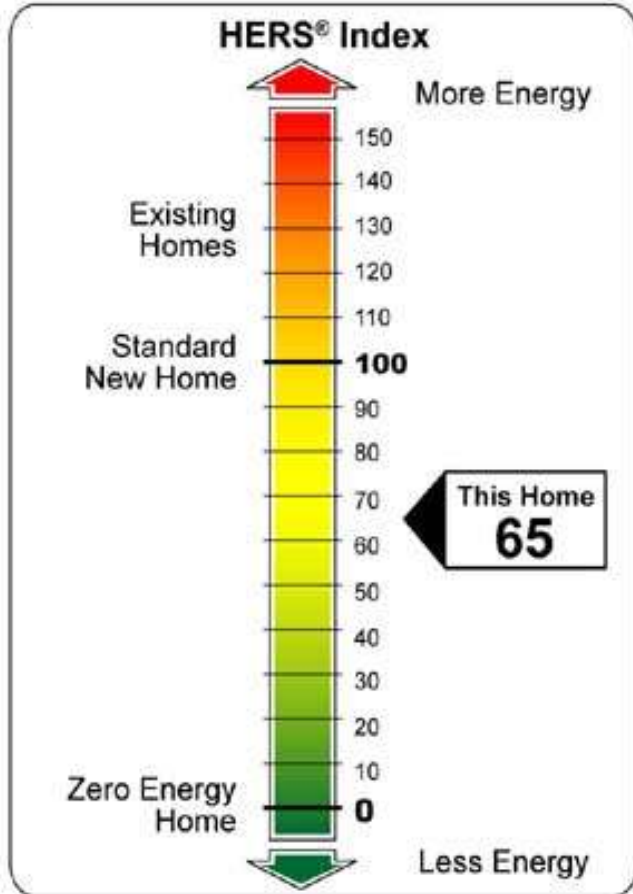
- Introduction
- Objective
- MPG on cars
- MPG on appliances
- Purpose of Energy Labels
- HERS Index
 - Concept
 - Interactive Tool
- HERS Index on:
 - Existing Homes
 - New Homes
- Are we alone?
- HERS Index & Green Building Programs
- Questions

Introduction

- Construction & Development
 - *Custom Homes & Built To Suit*
- Green Programs
 - *EarthSmart*
- Home Services
 - *Georgia*
- Energy Code Compliance & Testing
 - *New Georgia 2009 Energy Code*
- Real Estate Sales & Property Management
 - *Associated broker with Chastain Jenkins & Leathers*

**FOCUSED IN
SUSTAINABILITY**

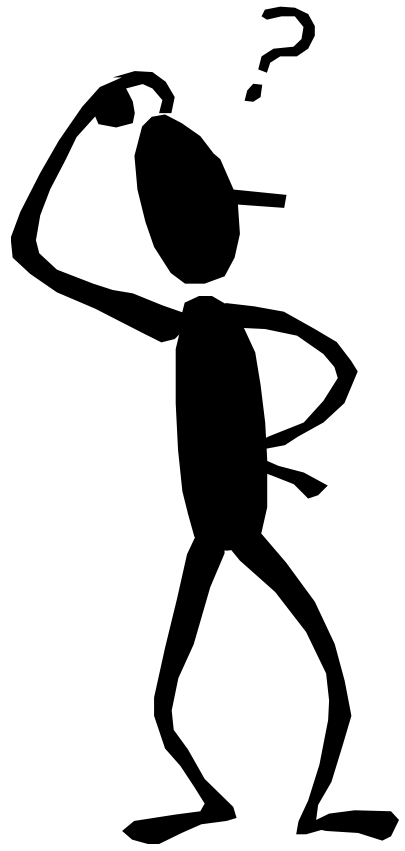
Objective



- Learn about what is becoming the norm nationwide on rating homes. Just as cars are designated with a MPG sticker, home will too

A.K.A = HERS INDEX

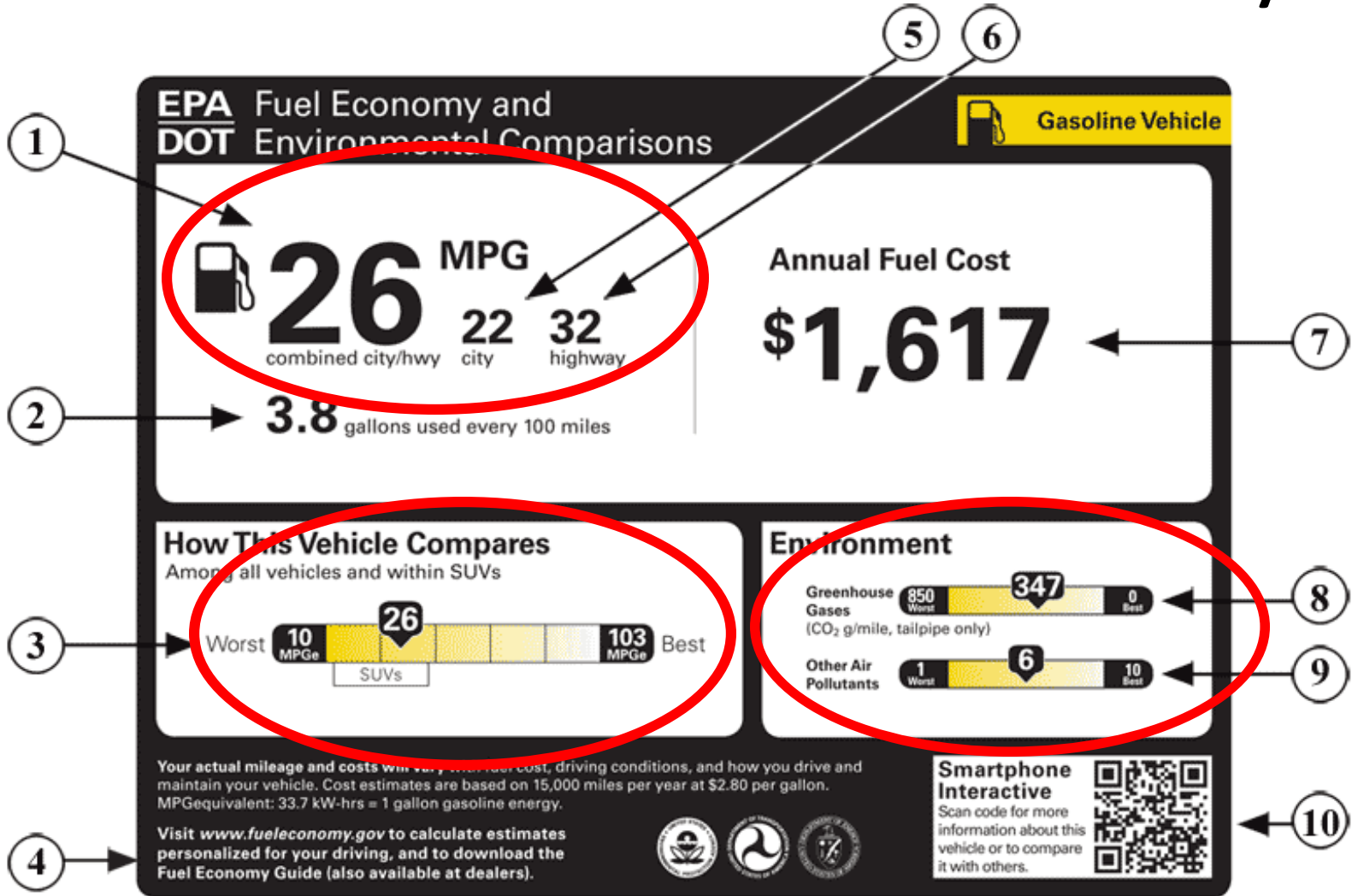
What do you do think when considering buying a car?



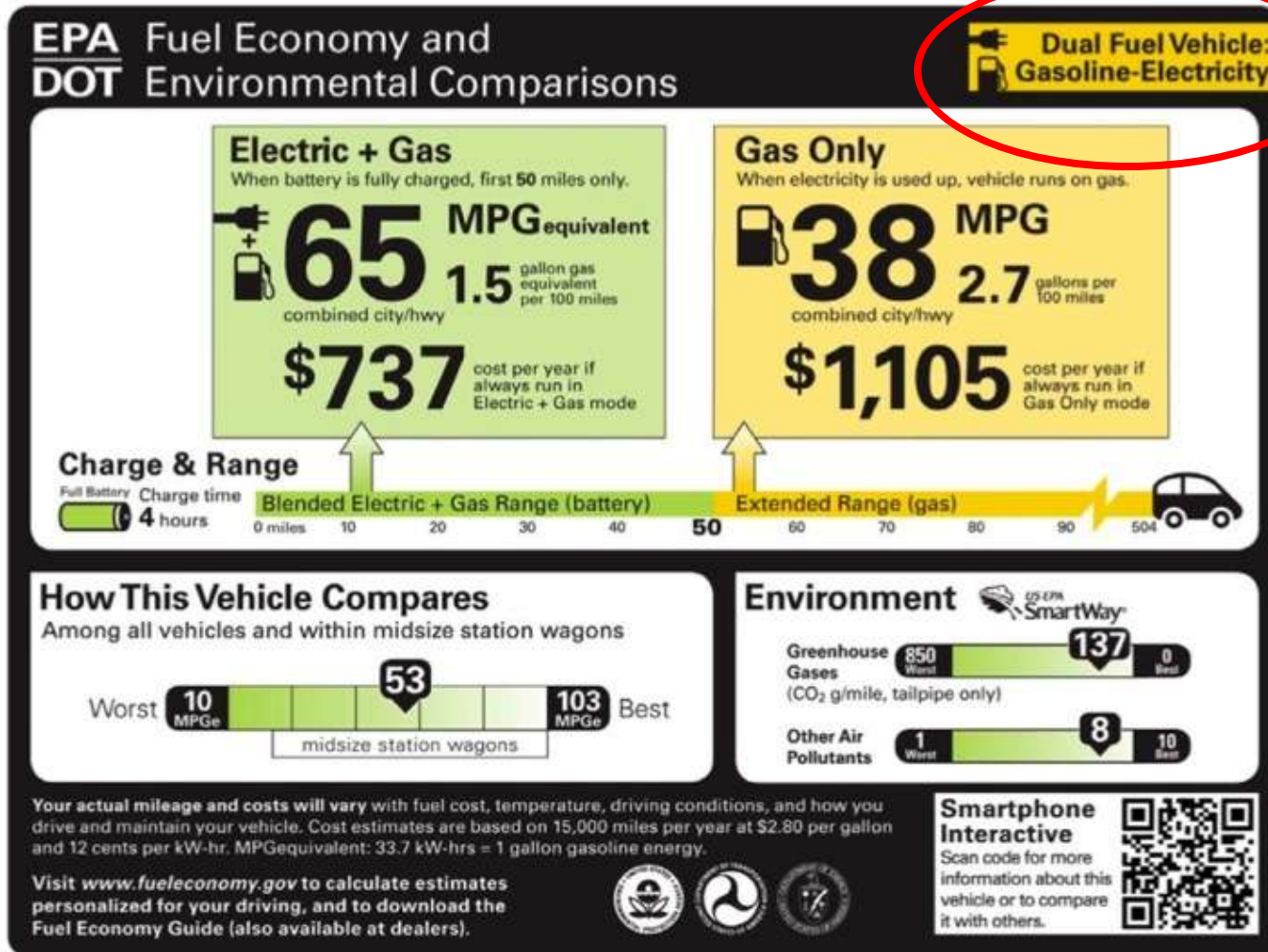
- Style
- Size
- Color
- **MPG's!!!**



MPG = Energy Label on Automobile Industry



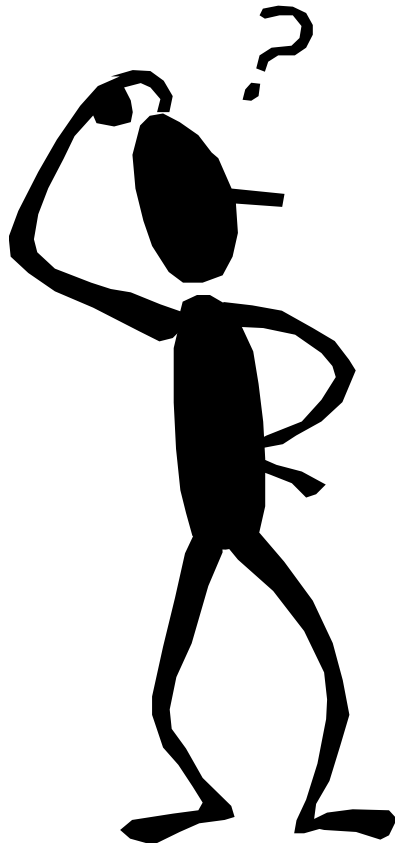
MPG = Energy Label on Automobile Industry



Or you can do this



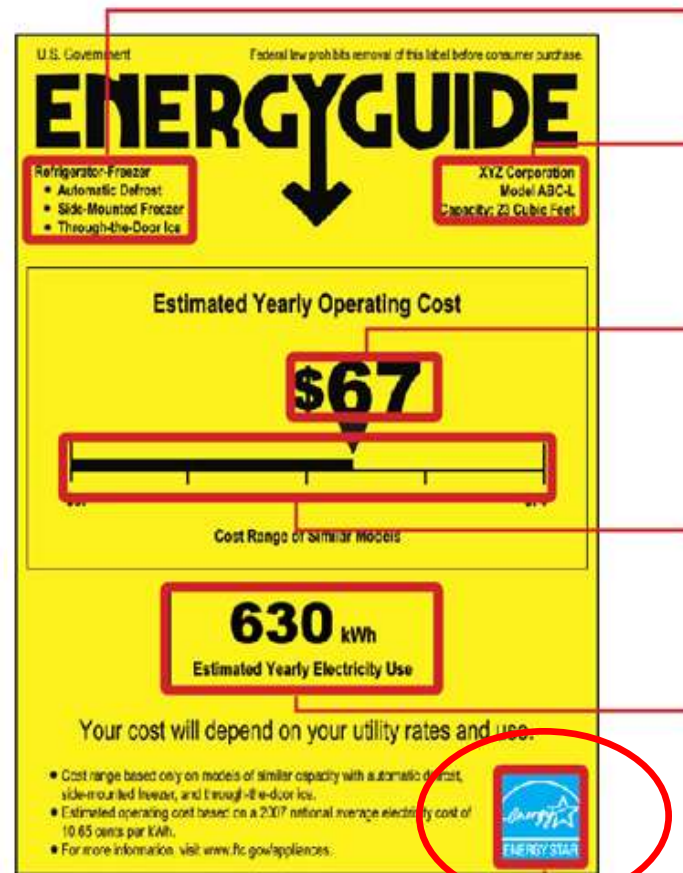
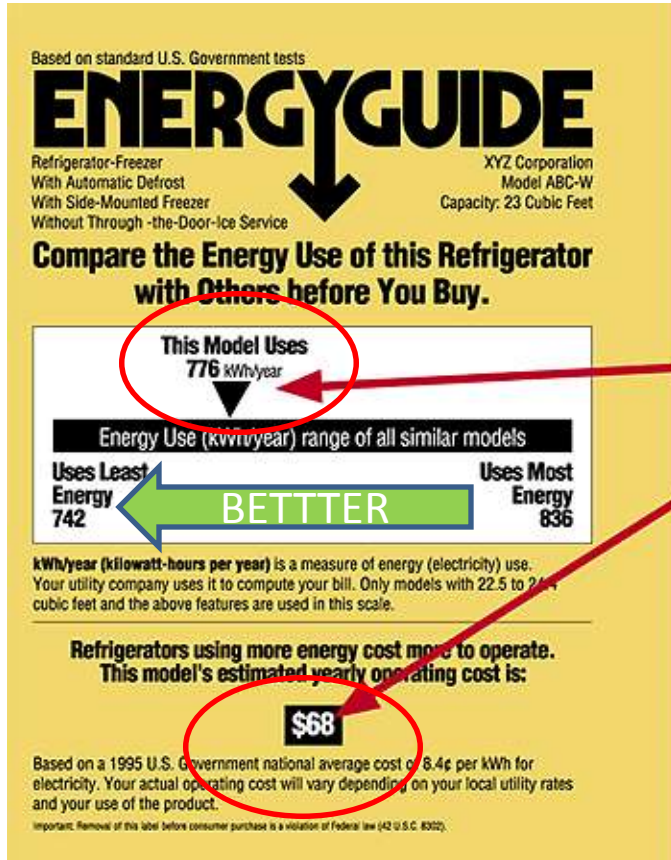
How about when buying an appliance?



- Style
- Size
- Color
- **Efficiency!!!**



ENERGYGUIDE for appliances



Key features of the appliance are listed here, for easy comparison between models.

Appliance information like make, model, and size are listed to give basic information about the appliance.

The estimated cost to run the appliance is based on electricity use and national electricity prices. Compare the estimated energy cost as you would feature of the appliance.

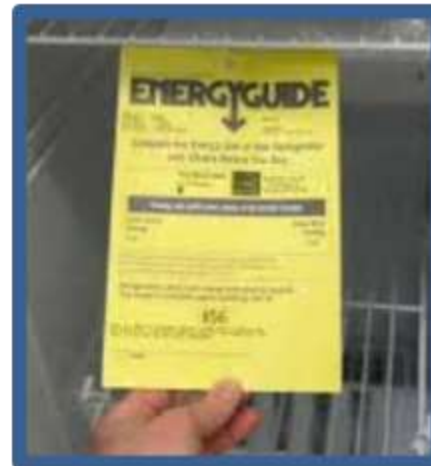
The cost range chart compares how much this appliance can potentially cost annually versus other similar models.

The annual estimated energy use based on average use. Simply multiply this number by the rate on your electricity bill and you will find the operating cost.

The Energy Star logo is visible when the appliance is Energy Star rated. Energy Star models are more energy

Source: www.ftc.gov

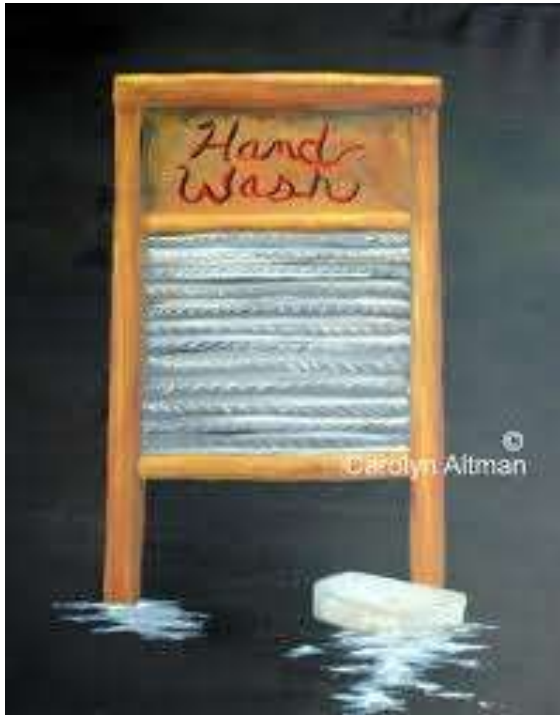
ENERGYGUIDE for appliances



An even BETTER label



Or you can do this

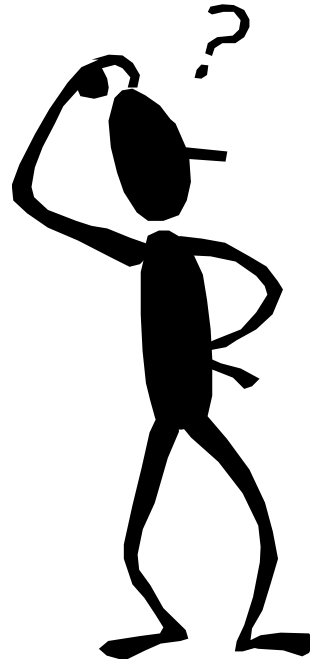


Purpose of Energy Labels & MPG

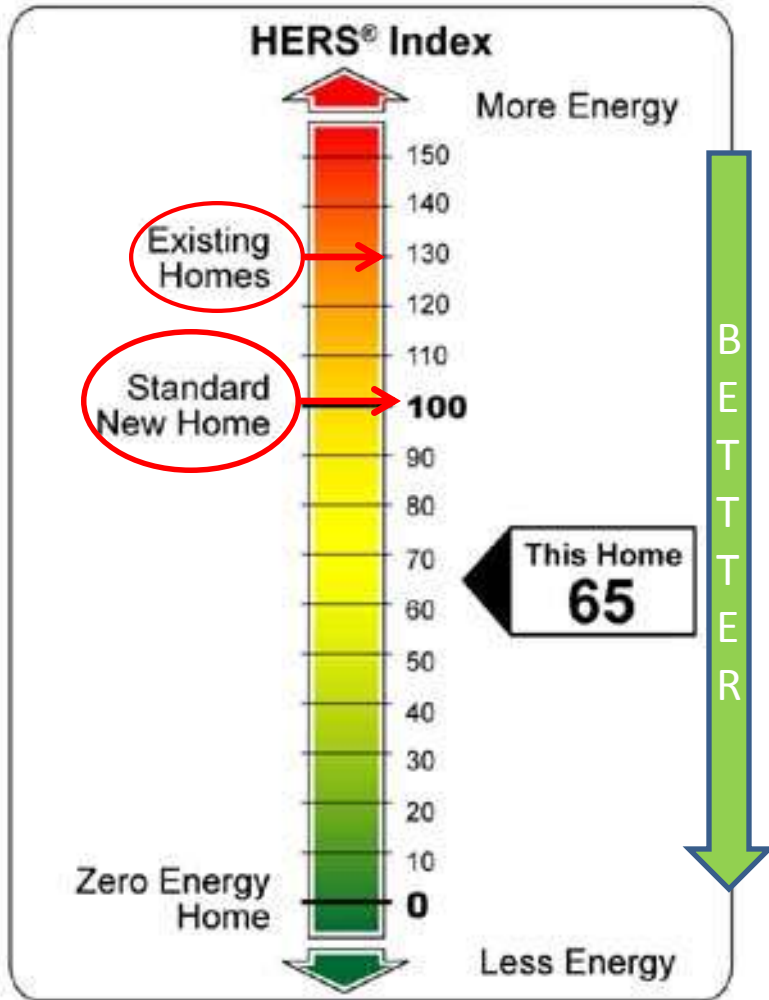
- Efficiency indicator
- Provide consumers with:
 - accurate
 - re
 - a
 - reg
 - other esse
- The label is uniform for all products in a given category

**CONSUMERS CAN MAKE
AN INFORMED DECISION**

How about an ENERGY LABEL for homes?



HERS Index



- The industry standard by which a home's energy efficiency is measured.
- Developed by **RESNET** and is the nationally recognized system for inspecting and calculating a home's energy performance.

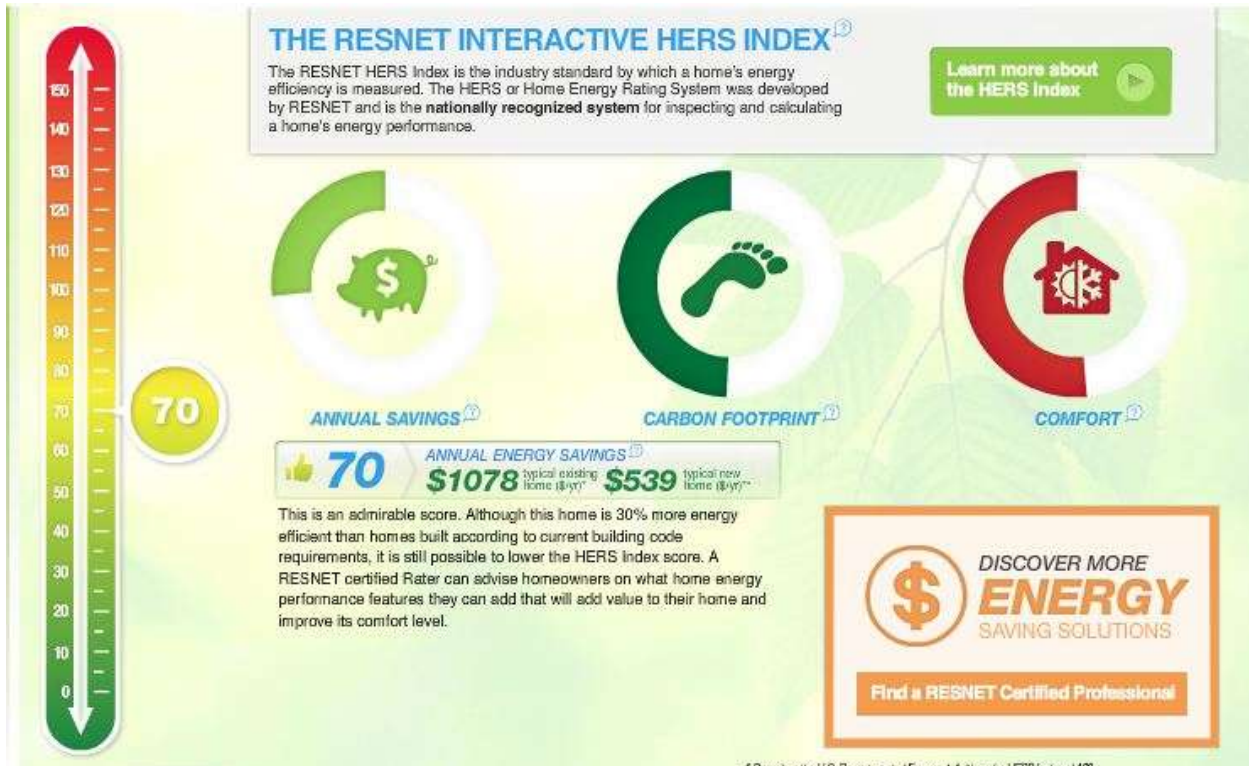
In short, a HERS index is the measuring stick for which all new homes & existing homes can be rated

More on HERS Index

- Is a measurement of a home's [energy efficiency](#),
- Works on existing homes or new homes.
- On existing home allows a homeowner to receive a report listing options for upgrading a home's energy efficiency.
- On a new home allows buyers to compare the energy efficiency of homes they are considering buying.
- Use to gauge the current energy efficiency of a home or estimate the efficiency of a home that is being constructed or improved.

HERS Index Interactive Tool

- <http://www.resnet.us/hers-index>



THE RESNET INTERACTIVE HERS INDEX[®]

The RESNET HERS Index is the industry standard by which a home's energy efficiency is measured. The HERS or Home Energy Rating System was developed by RESNET and is the **nationally recognized system** for inspecting and calculating a home's energy performance.

[Learn more about the HERS Index](#)

70

ANNUAL SAVINGS[®]

ANNUAL ENERGY SAVINGS[®]

\$1078 typical existing home (\$/yr) **\$539** typical new home (\$/yr)**

CARBON FOOTPRINT[®]

COMFORT[®]

This is an admirable score. Although this home is 30% more energy efficient than homes built according to current building code requirements, it is still possible to lower the HERS index score. A RESNET certified Rater can advise homeowners on what home energy performance features they can add that will add value to their home and improve its comfort level.

DISCOVER MORE ENERGY SAVING SOLUTIONS

Find a RESNET Certified Professional

* Based on the 11.8 Thermostat of Frame condition of a HERS Index of 131

How do I get a HERS Index?

Existing Homes

- Hire a HERS Rater
- HERS Rater will field verify:
 - Foundations
 - Walls
 - Roof/Ceiling
 - Rim Joist
 - Doors & Windows
 - [Air Leakage Home & Ducts](#)
 - Heating and Cooling System
 - Hot Water Heating
- Develops Energy Model of Home based on rated features
- Generate HERS Index using computer software
- Provide report to home owner

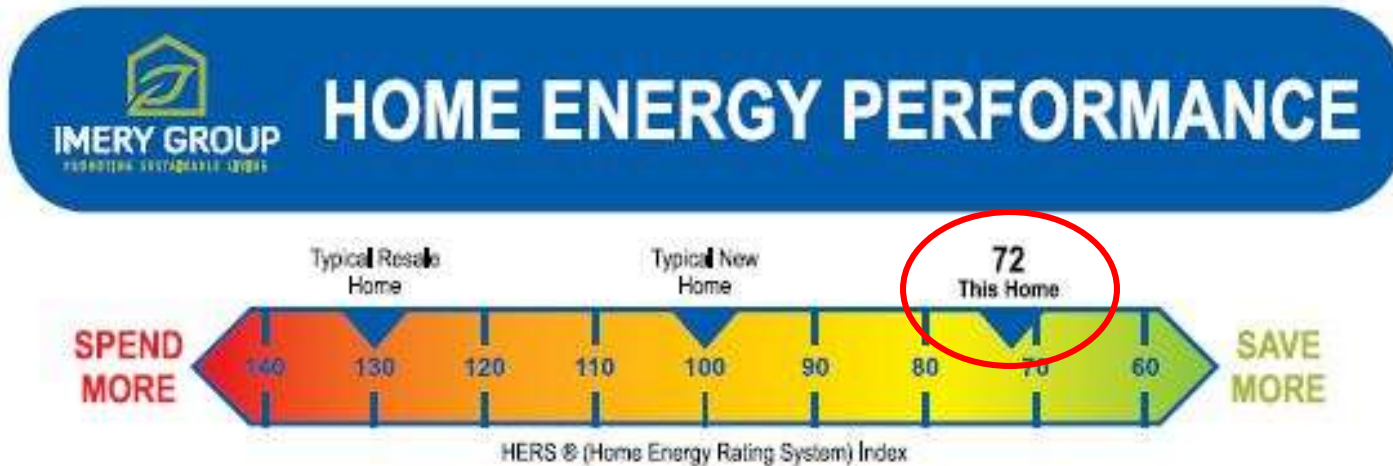


How do I get a HERS Index

New Construction

- Builder hires HERS Rater
- Rater reviews construction spec's:
 - Building Envelope Assembly
 - Insulation Values
 - Doors & Windows
 - Heating and Cooling System
 - Hot Water Heating
- Develops Energy Model & HERS Index
- Conducts field verification and infiltration testing
- Generates final HERS Index

Different ways a HERS Index is used

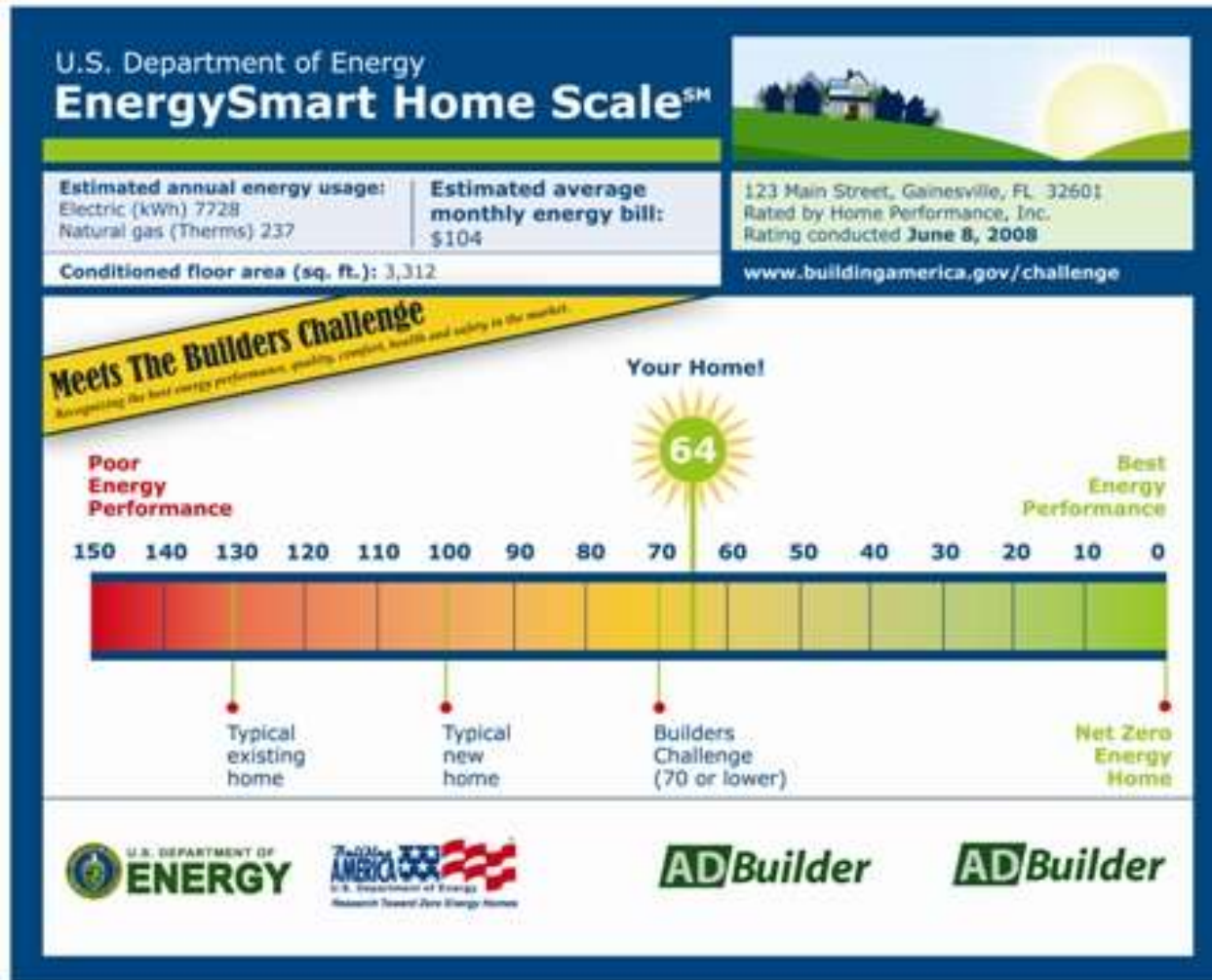


This Imery Group Home Includes:

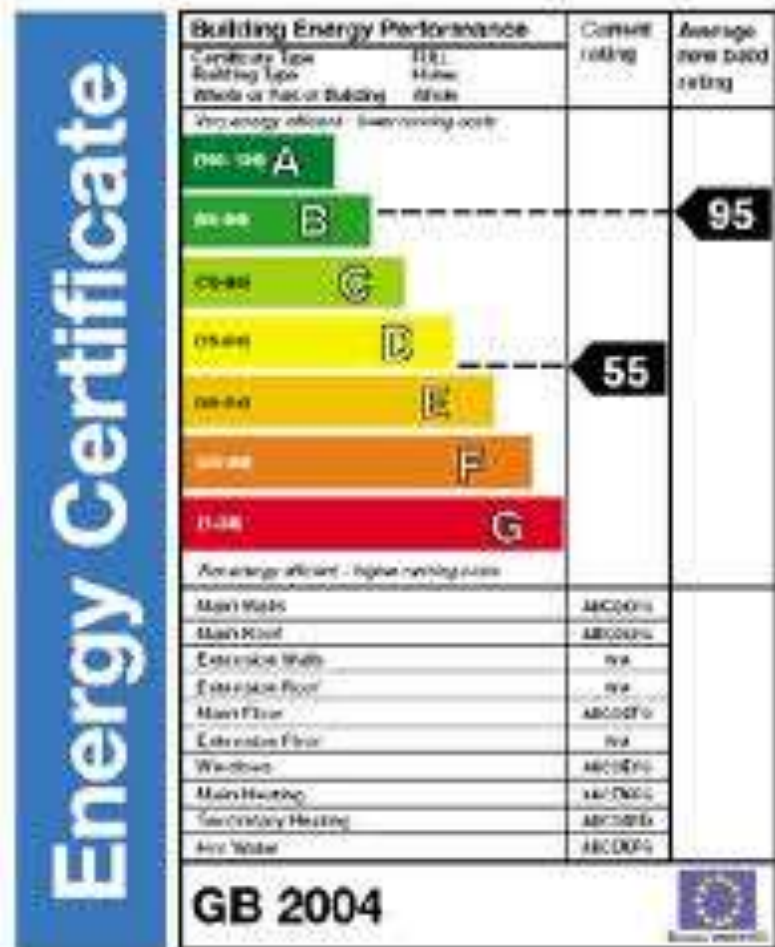
- EPA's ENERGY STAR & Indoor AirPlus Label
- Energy Star Lighting Package & Appliance
- High performance windows, HVAC system and Insulation
- Energy Star Roof
- Third Party Verified



Different ways a HERS Index is used



Are we alone?

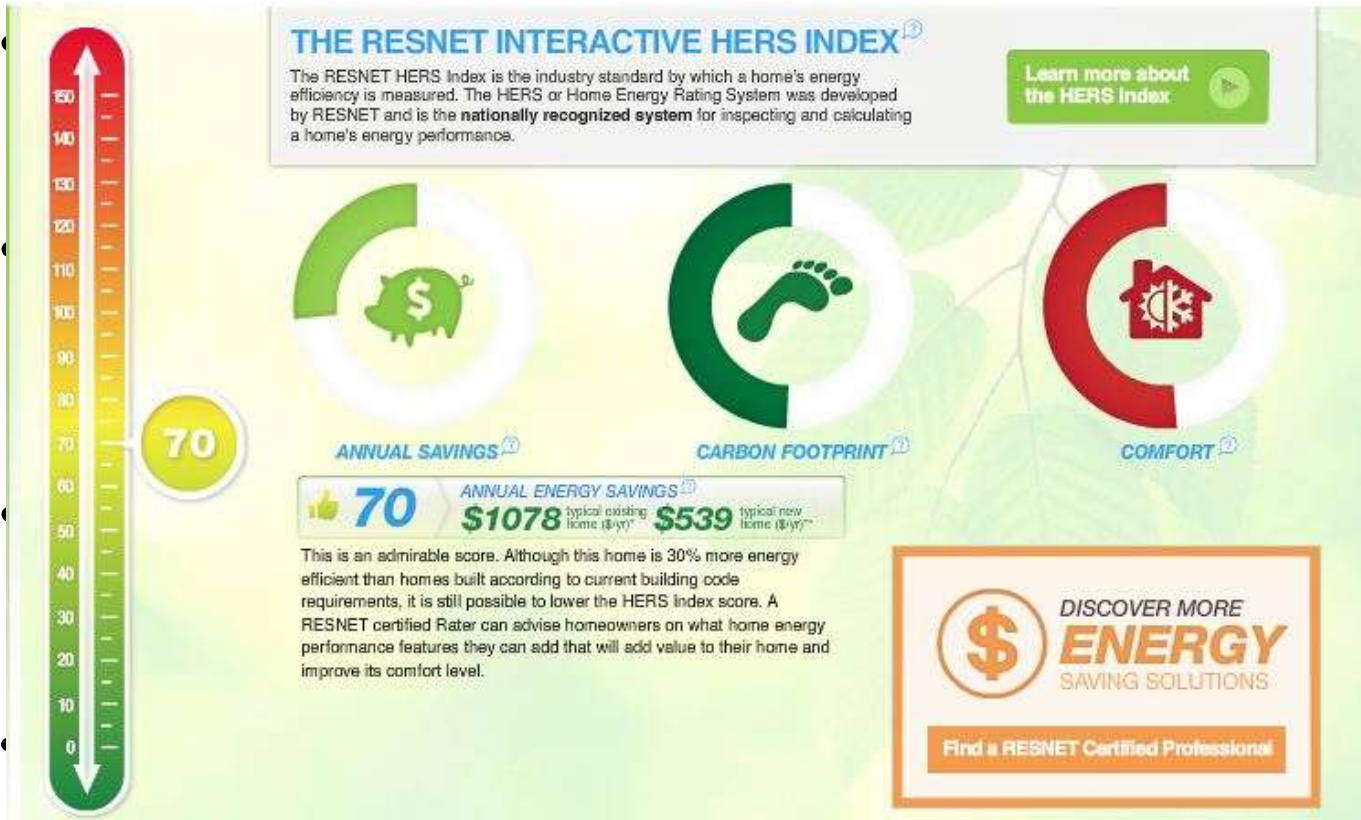


- EUROPEAN UNION
 - Mandatory !!!
 - Display in all buildings
 - Next to health score on public building

Green Building Programs



NAHB NATIONAL GREEN BUILDING PROGRAM™



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* Based on the U.S. Department of Energy definition of a HERS index of 131.

as ICC 700 National Green Building Standard™ which receive approval from the American National Standards Institute (ANSI).



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Thank You !!!

Pillar of Green Building

Up to
buildi
are r

ENERGY STAR - THE CORE OF ALL GREEN BUILDING PROGRAMS

Step 3

Step 1

Energy Efficiency

- Envelope
- Dis
- Equ
- Lighting
- Appliances



Environment

- Bulk Moisture
- Radon
- Pest Control
- Materials
- Commissioning



- Water

POINT BASED

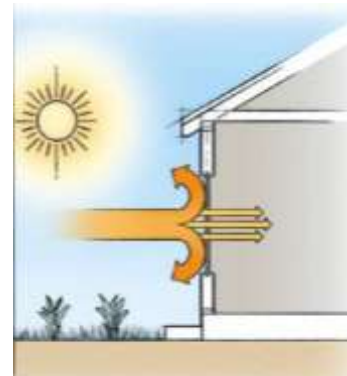
- Renewables

SET STANDARDS

ust. Safety



Achieving Energy Efficiency



HOME DESIGN AS A SYSTEM



**Efficient
Equipment**



**Lighting and
Appliances**

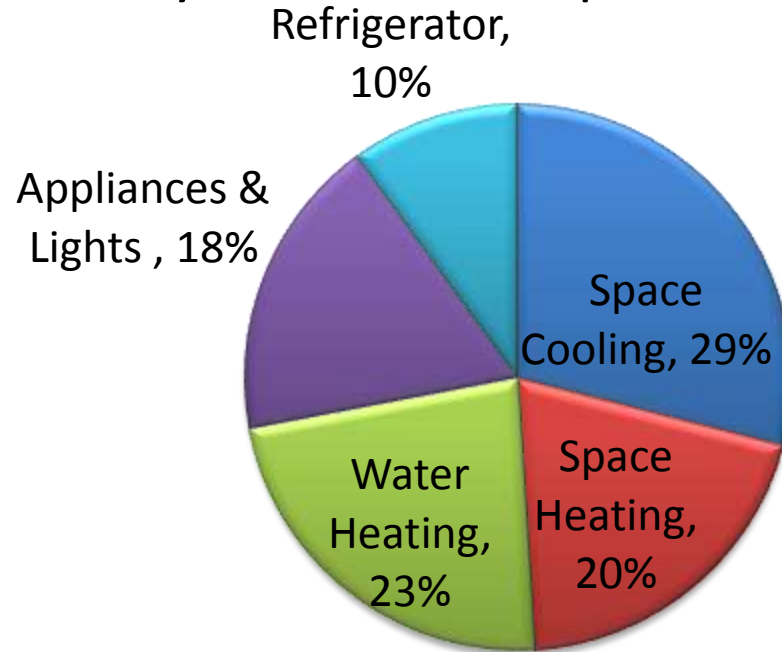
Jump to Third Party

[Jump to Indoor Environment](#)

Why Energy Efficiency



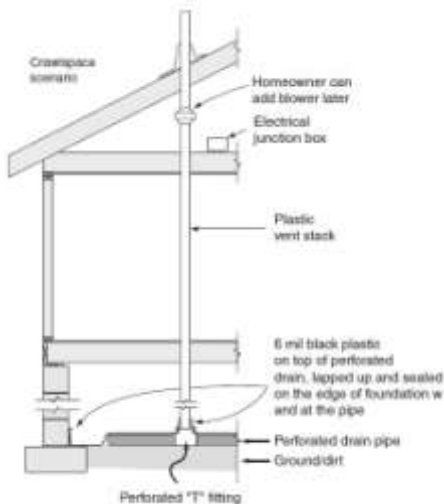
- 70% of energy use goes to heat and cool our home's air & water.
- Just focusing in reducing our energy consumption alone will substantially reduce our impact on the planet.



Indoor Environment



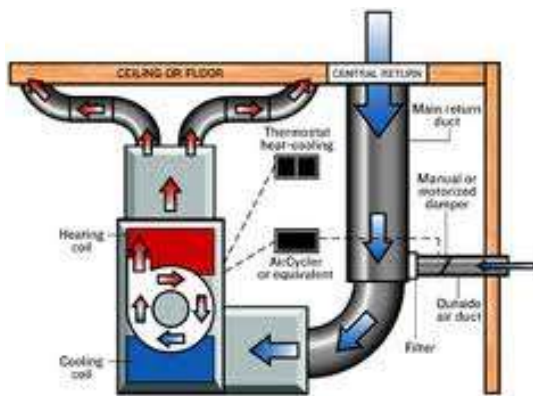
Moisture Control



Radon



Pest Control



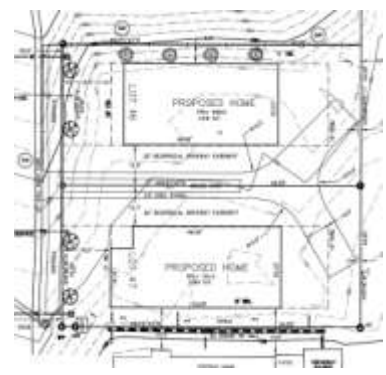
HVAC System – Fresh Air



Materials

Combustion Safety

Resource Efficiency



Site Planning



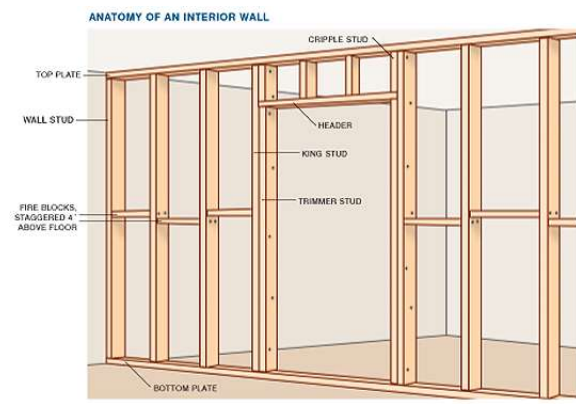
Waste Management



Indoor Water Use



Outdoor Water Use



Materials



Renewable

Third Party Verification



Here, a home energy rater is employing the blower door test to measure air leakage in the building envelope.



And here, a home energy rater is using the duct blaster test to measure the leakiness of ducts.

Why Athens?

- Ranked **#33 of America's 50 Greenest Cities** ([Popular Science](#) Feb.08)
- Athens-Clarke Government Objectives as of Feb 2007
 - Energy Conservation: Reduce by 15% from FY06 consumption
 - Decrease Water Usage: Reduce peak month water usage
 - Green space Acquisition: Increase green spaces
 - Solid Waste Enhancement: reduce by 25% per capita
 - Non Salary Incentive to reduce CO2 Foot Print by using public transit
- **Tree City USA** for the 7th year- National Arbor Day Foundation
- **18 “green organizations”** – Athens Grow Green Coalition
- **UGA** going green – March 2008 – long range plan to 2034



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Thank You !!!