

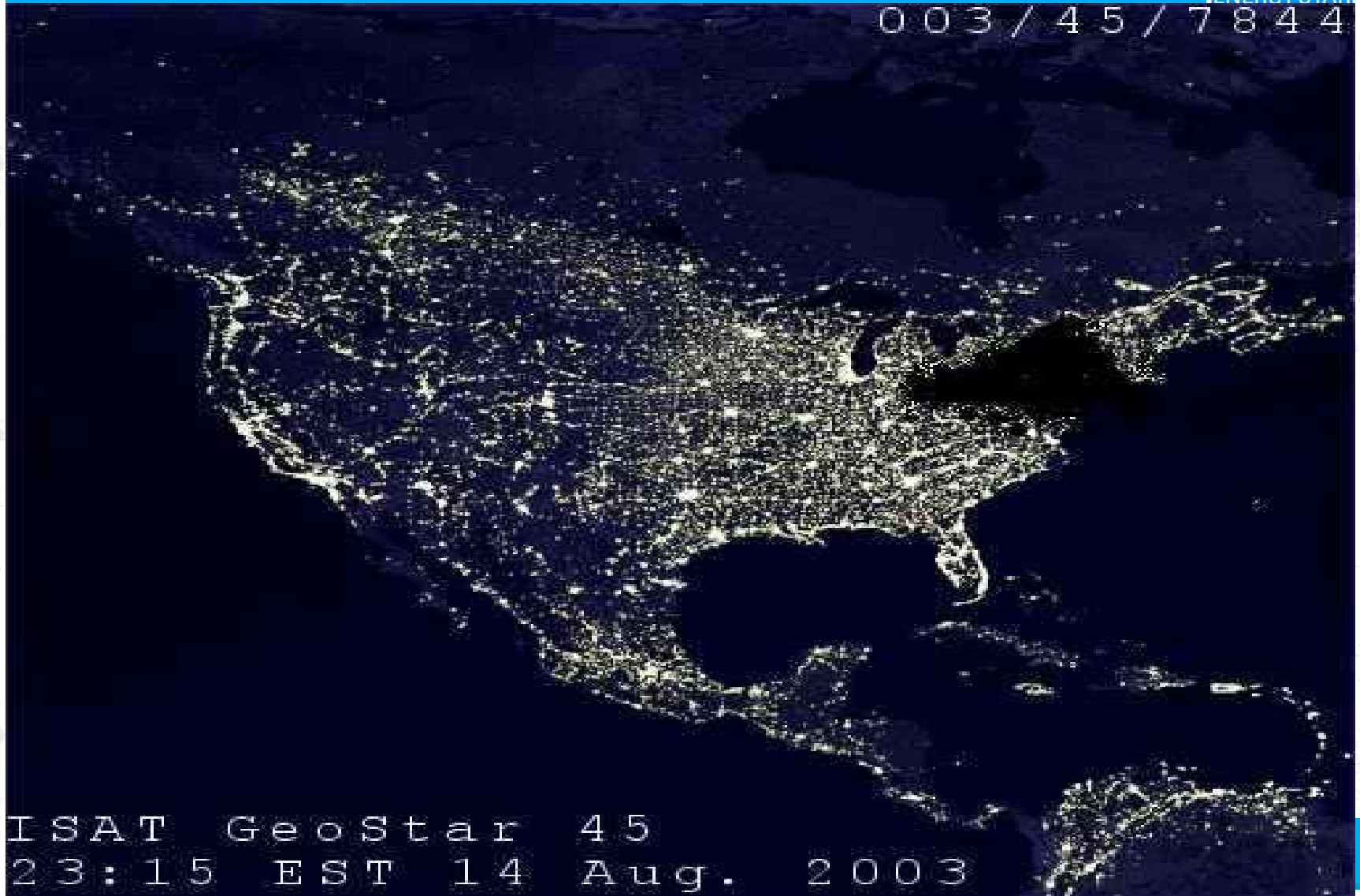
RESNET 2004

Towards the Future??



HOME
PERFORMANCE
WITH
ENERGY STAR

003 / 45 / 7844



ISAT GeoStar 45
23:15 EST 14 Aug. 2003

I am alone and unarmed, but I am prepared....

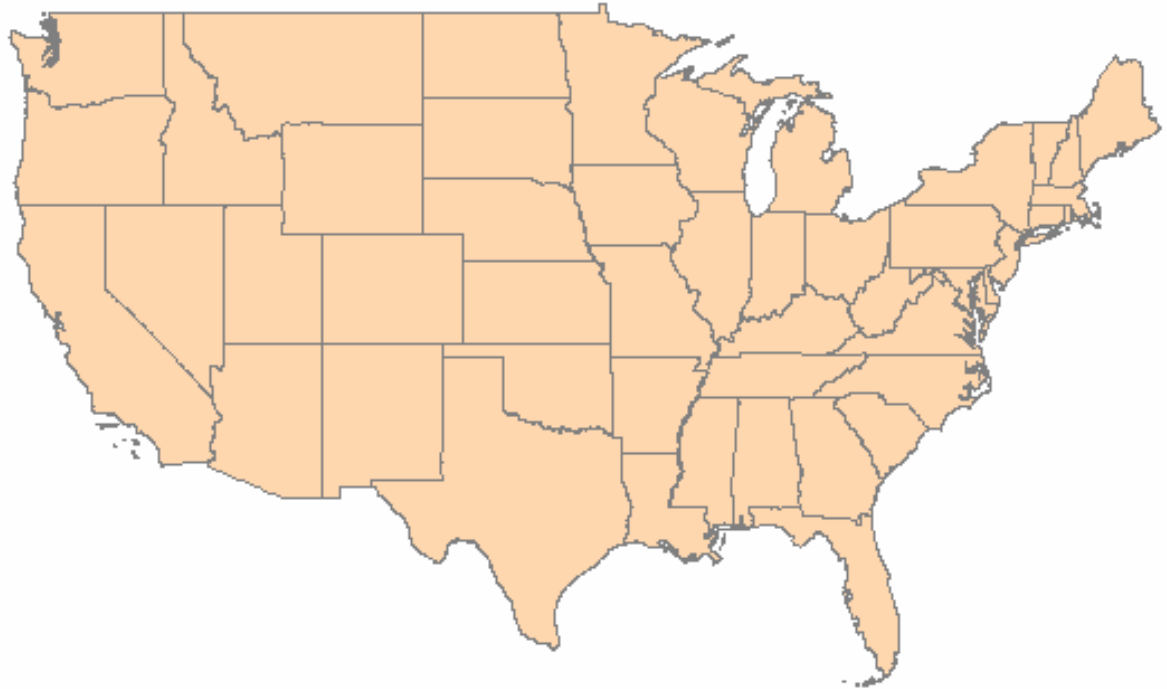
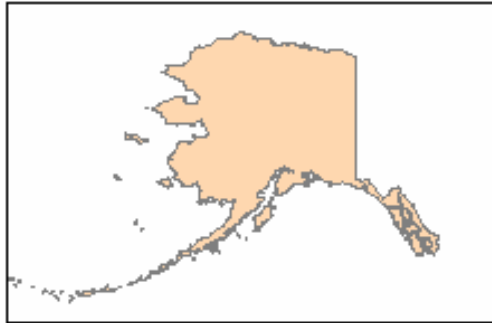


What I will talk about...



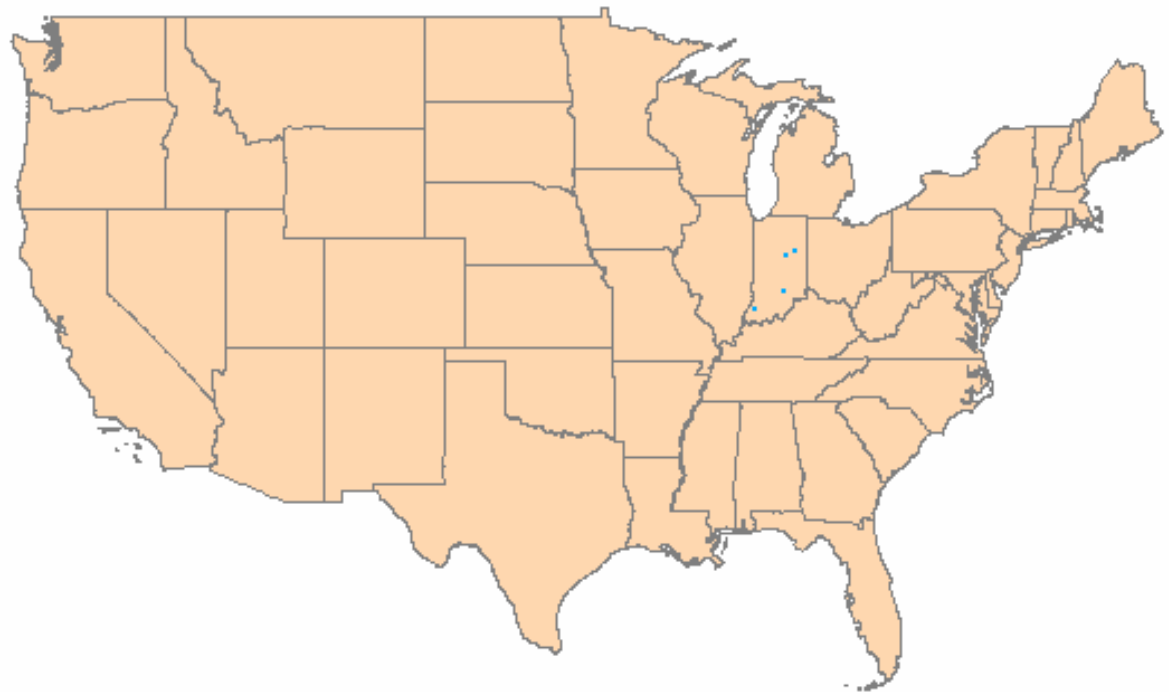
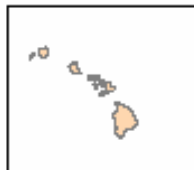
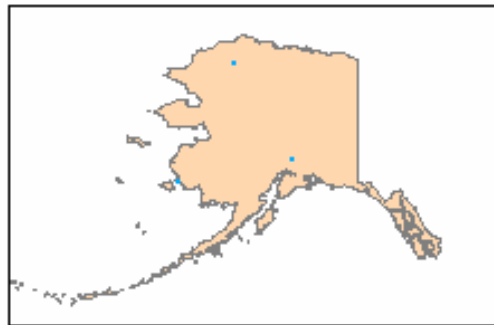
- ENERGY STAR Success
- 2004 STAR Award Winners
- Program ENERGY Stats
- Program Developments
 - Changes to the Sampling Protocol
 - Indoor Air Quality Specifications
 - 2004 Ad Campaign
 - Multi-family High Rise
 - Advance Lighting Pack
 - Home Performance with ENERGY STAR

Energy Star Labeled Homes Pre-1996



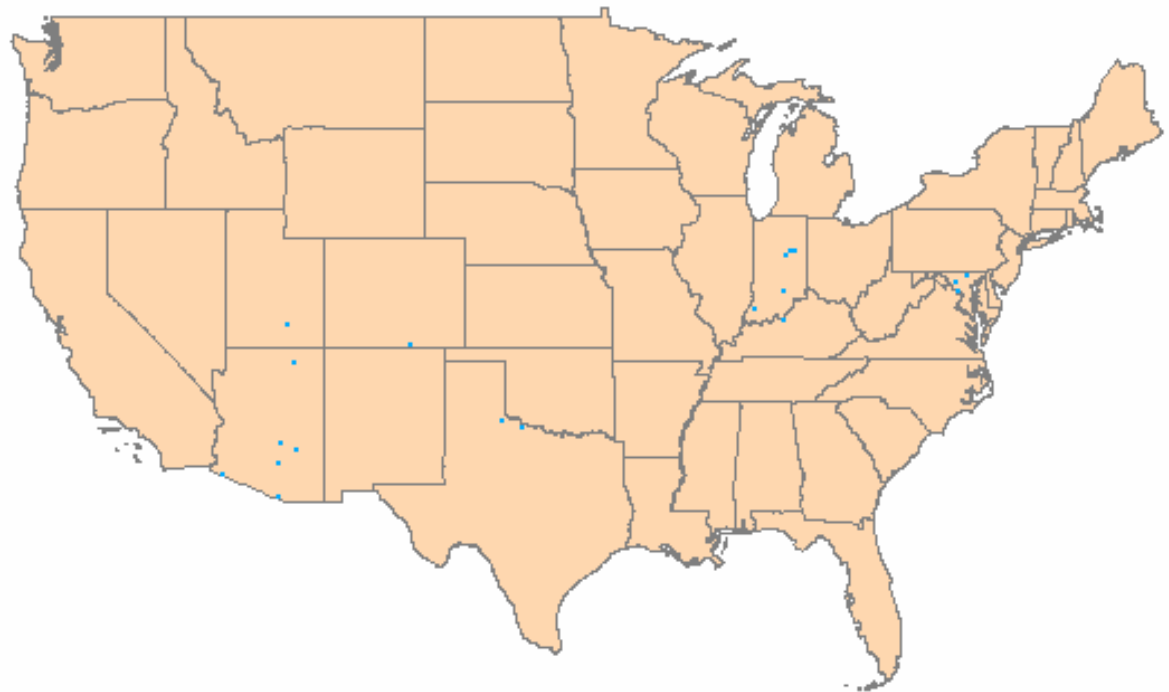
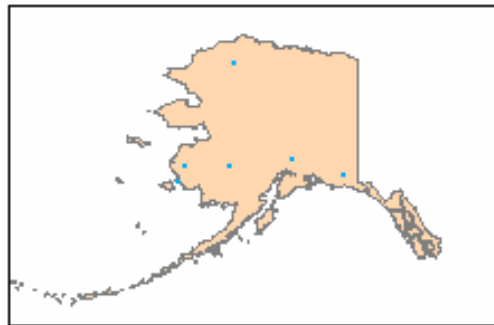
 1 dot = 50 Energy Star labeled homes


Energy Star Labeled Homes 1996



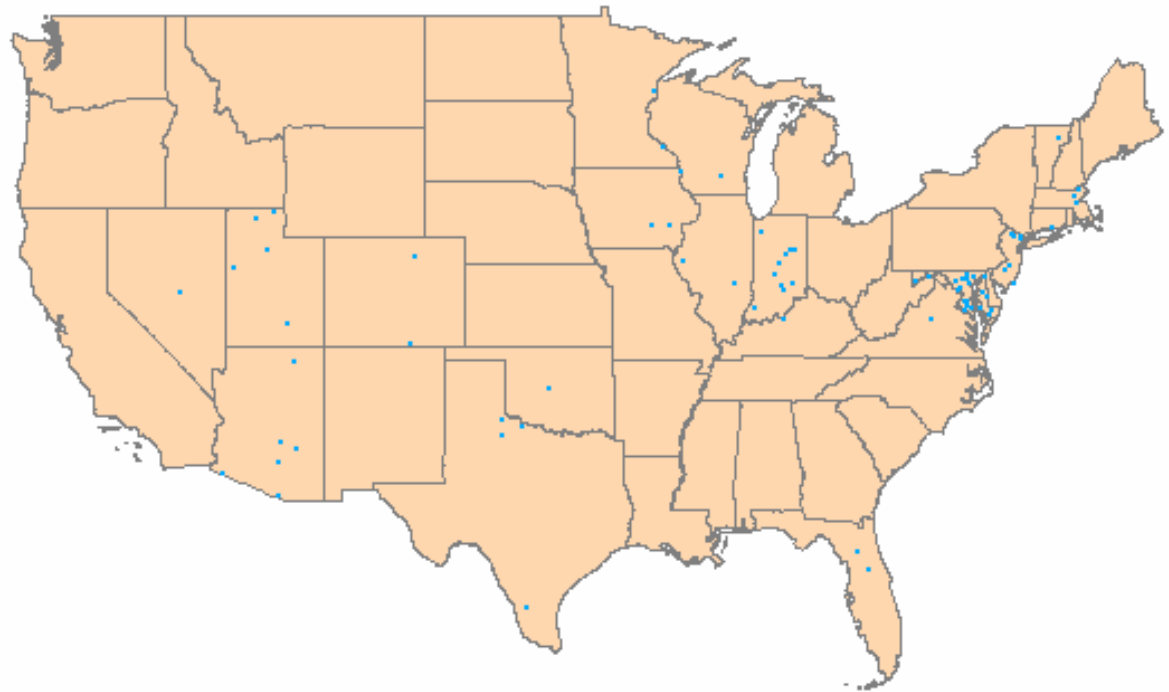
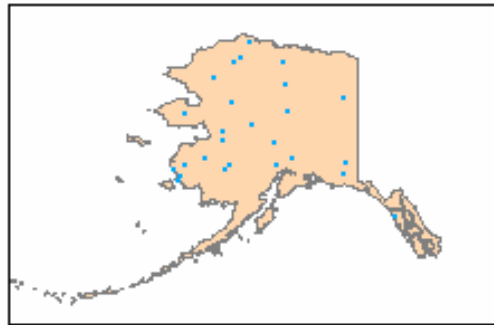
 1 dot = 50 Energy Star labeled homes


Energy Star Labeled Homes 1997



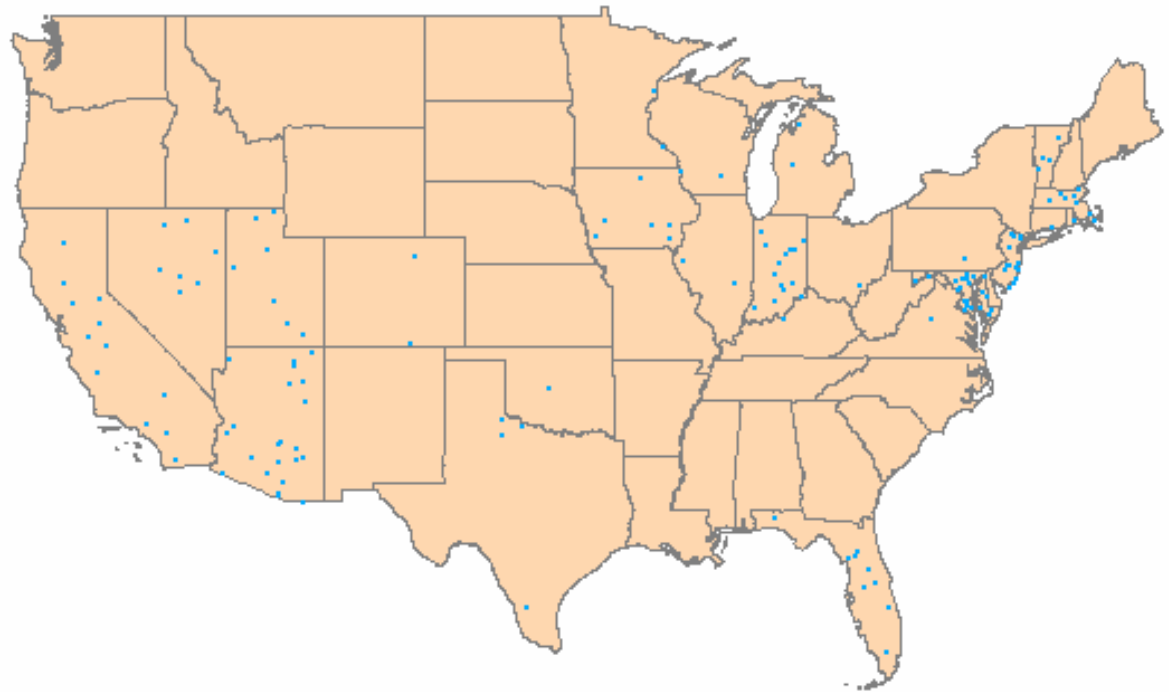
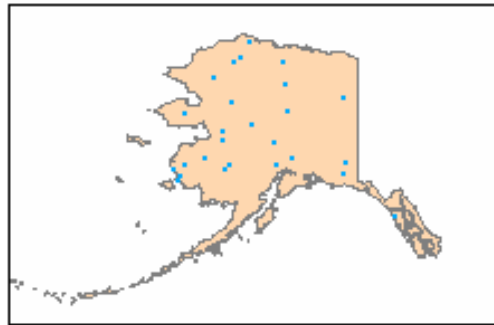
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Energy Star Labeled Homes 1998



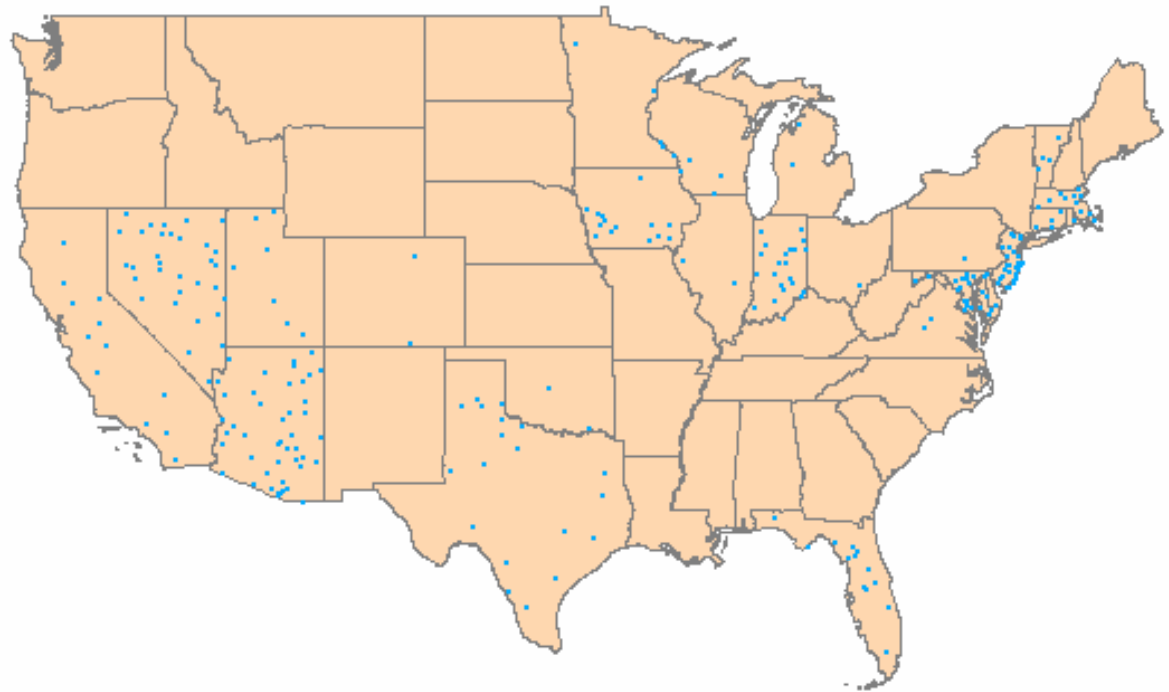
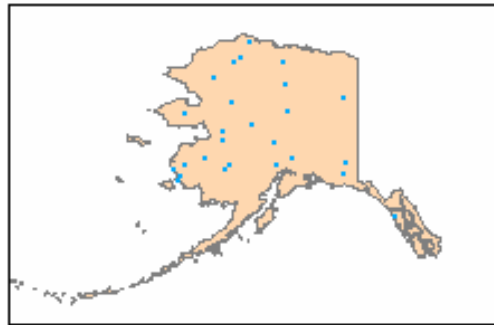
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Energy Star Labeled Homes 1999



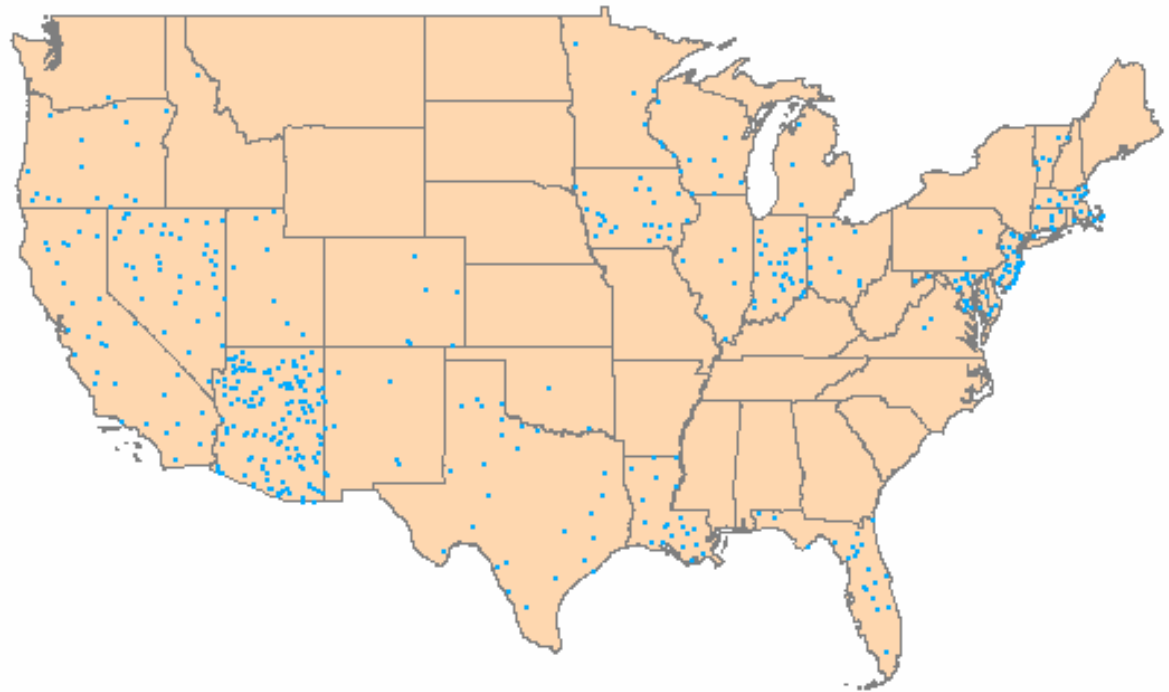
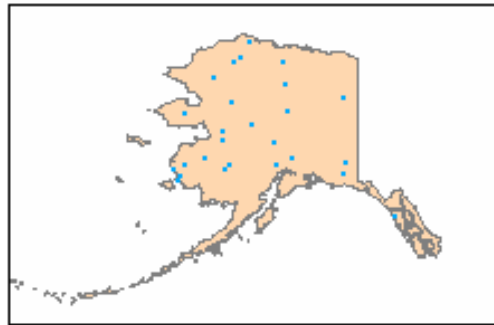
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Energy Star Labeled Homes 2000



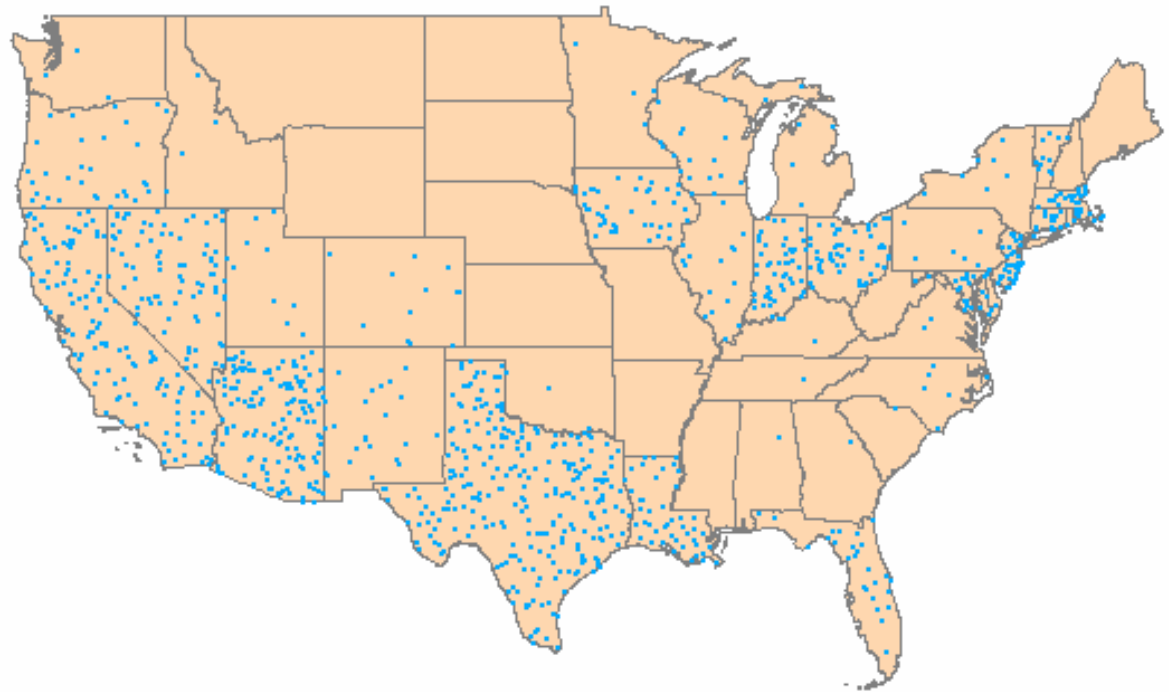
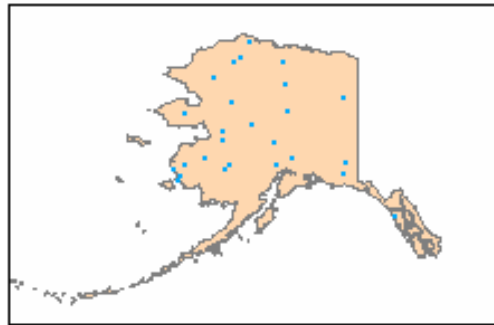
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Energy Star Labeled Homes 2001



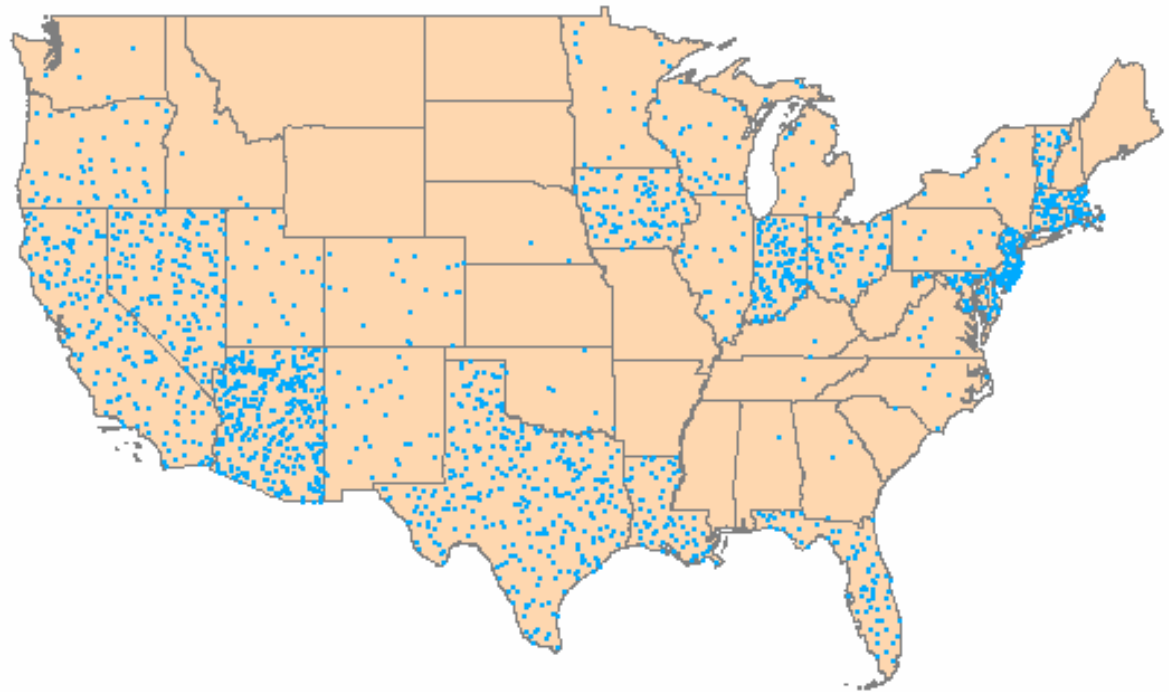
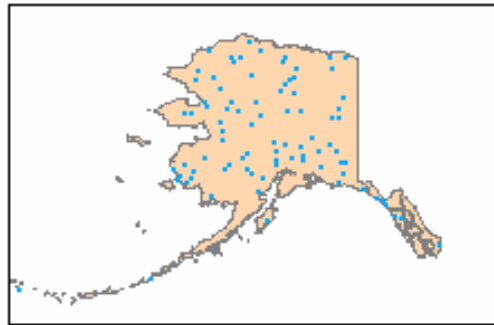
 1 dot = 50 Energy Star labeled homes

Energy Star Labeled Homes 2002



 1 dot = 50 Energy Star labeled homes

Energy Star Labeled Homes 2003

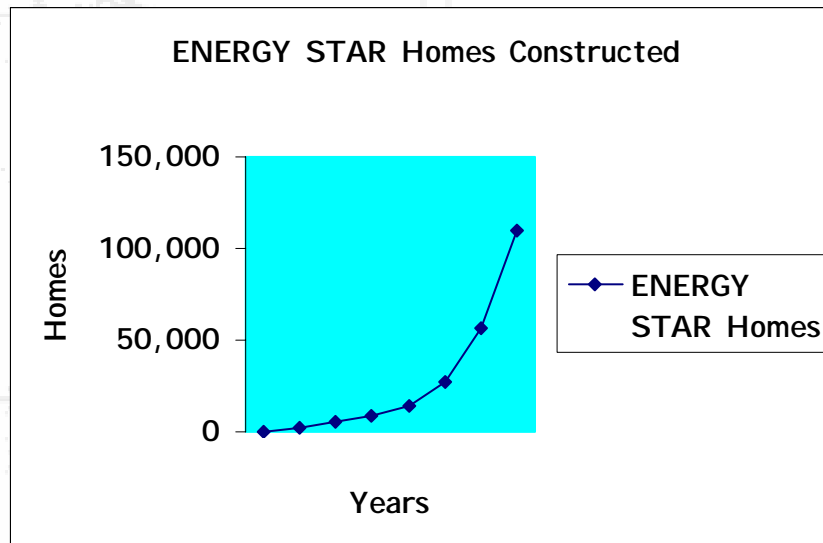


 1 dot = 50 Energy Star labeled homes

ENERGY STAR Homes Continues to Grow



- Over 110,000 homes constructed in 2003
- Over 200,000 homes in the ground
- Success is due to local champions like you



ENERGY STAR Recognizes the Important Role of its Champions



- Architectural Energy Corporation
- MaGrann Associates
- California Investor Owned Utilities
- Center Point Energy
- Oncor Electric Delivery Company
- New England Joint Management Committee
- NYSERDA
- Vermont ENERGY STAR Homes Service
- Wisconsin's Focus on Energy
- D.R. Wastchak, LLC
- Pardee Homes
- Pulte Homes Nevada Operations
- Veridian Homes
- Nevada ENERGY Star Partners
- Ence Homes
- Engle Homes in Colorado
- David Power Homes
- Energy Services Group

ENERGY STAR
2004 Award
Winners



New England JMC

Building Science

State-of-the-art building science ENERGY STAR homes are constructed with the latest science of construction that saves with one another, the use of the best of the house, and designed to be the most efficient. The goal is to keep the house as close to the ideal as possible. Typical homeowners problems such as heat loss, moisture and air leakage with complete replacement of house components and doors, windows and doors. In comparison to the building industry, the ENERGY STAR home system is able to perform the standard for performance products and structural design.

Healthy for you and the environment

When homeowners surveyed were asked what builders should do to help protect the environment, 82% answered "Build more energy efficient homes." This consistently shows that consumers have preferences for environmentally responsible products and are often willing to pay more for them. Now they can say that. Because ENERGY STAR homes can help to save 10% in air conditioning for the environment and your pocketbook.

Money in your pocket, higher resale value

Living in an ENERGY STAR home, you will save money each month—up to 30% less in energy costs compared with living in other homes nationwide. ENERGY STAR qualified new homes are substantially less energy for heating, cooling, and water heating, so you can expect to save about \$200-\$400 or more annually on your utility bills. Simply put, homes built to ENERGY STAR guidelines just save to operate because they feature better building practices and technologies, and other, energy-efficient lighting and appliances. Special financing is also available from lenders who offer incentives such as reduced closing costs or lower interest rates to ENERGY STAR home buyers. When it is time to sell your home, you may be able to sell at a higher price. Studies conducted since the year 1990 have consistently found that energy-efficient homes have a significantly higher resale price than average homes.*

Living in an ENERGY STAR qualified home will save you money on your utility bills each month.

ENERGY STAR HOMES

Home Owner Guide

"This is how all new homes should be built"

—Steve Thomas

Steve Thomas, head of America's favorite home improvement television show, participated in the consumer public awareness campaign promoting ENERGY STAR Labeled Homes.

Before you break ground on your next new home,

please call a Vermont Energy Star Homes program representative or visit www.stenergystarhomes.com

How can you be a part of this exclusive program to help increase sales of Energy Star Labeled Homes?

Part of a unique opportunity to increase sales of new homes, homes with ENERGY STAR Labeled Homes are built to ENERGY STAR guidelines and have to operate because they feature better building practices and technologies, and other, energy-efficient lighting and appliances. Special financing is also available from lenders who offer incentives such as reduced closing costs or lower interest rates to ENERGY STAR home buyers. When it is time to sell your home, you may be able to sell at a higher price. Studies conducted since the year 1990 have consistently found that energy-efficient homes have a significantly higher resale price than average homes.*

Contact:

Efficiency Vermont 800-933-1937

or, in Vermont, call Vermont Energy Star Homes 802-632-4333 ext. 318

Vermont ENERGY STAR Homes

Efficiency Vermont

VERMONT



Offer your customers a better value with ENERGY STAR Labeled Homes.

Building a new home is a big investment for your customers. With an Energy Star Labeled Home you can give your customers more to be proud of—superior performance, lower costs, and green comfort and value. From day one, your customers will have a home that offers:

- Lower energy bills
- A quiet, comfortable living environment
- Greater durability and lower maintenance
- Improved indoor air quality for greater health
- Peace of mind in knowing that the home is inspected, tested, and certified to meet high performance for energy efficiency and higher resale value

Vermont ENERGY STAR Homes

GET GREATER ENERGY SAVINGS UNDER ONE ROOF

WITH THESE COUPONS, THE SAVINGS BEGIN. WITH AN ENERGY STAR® HOME, THEY NEVER END.

CALIFORNIA ENERGY STAR HOMES

Pacific Gas and Electric Company

California ENERGY STAR Homes

Program Stats



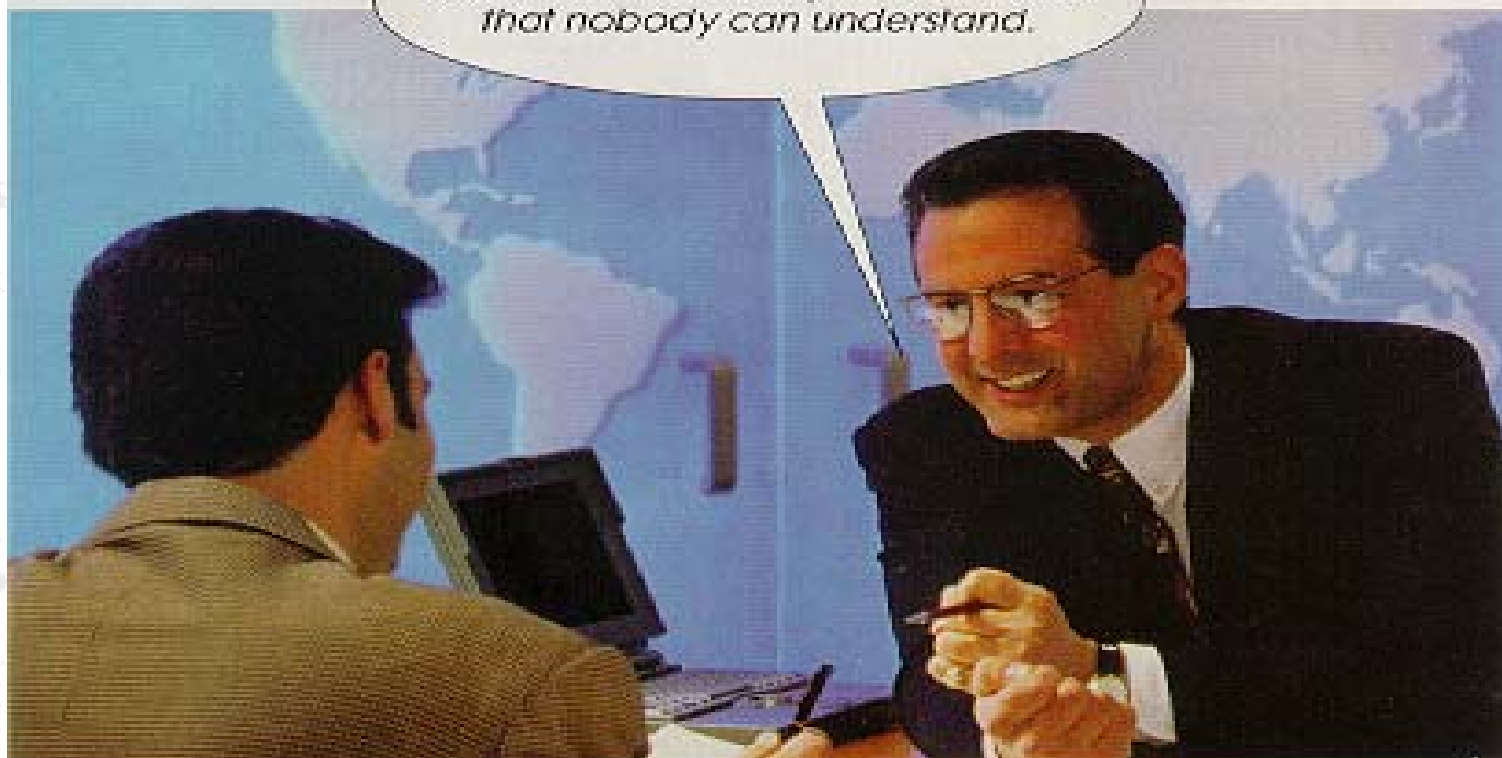
Rating Type	2003		Since 1996	
	Number	Percent	Number	Percent
Equivalent	1,442	1.31	2,803	1.22
Individual HERS	47,575	43.26	114,267	49.6
Sampled HERS	53,944	49.05	101,187	43.92
Manufactured	3,192	2.9	7,477	3.25
Multi-Family	3,831	3.48	4,643	2.02
Total	109,984	100	230,377	100.01

Program Developments



What you expect.

*Bear with me while I put this in terms
that nobody can understand.*



Revised Sampling Protocol

Break out Session
6, Tuesday,
3:30



ENERGY STAR FOR HOMES REVISED SAMPLING PROTOCOL GUIDELINES



This document provides guidance on using the Sampling Protocol to verify ENERGY STAR Homes. These guidelines are effective January 1, 2004. Two sets of guidelines are given: required procedures and best practices. While the required procedures must be followed, the best practices are given to help users successfully implement the Sampling Protocol. Please note that a different sampling protocol has been developed for manufactured housing that is integrated into the manufacturing process.

Implementation Steps	Required Procedures	Best Practice
<p>1. HERS Rater/Provider Qualification</p> <p>↓</p>	<p>a) Once RESNET initiates accreditation for HERS rater/provider sampling, this accreditation must be secured. This accreditation can be received by submitting either of the following application forms to RESNET (www.natresnet.org):</p> <ul style="list-style-type: none"> - 'Experience' form documenting at least 100 homes individually qualified as ENERGY STAR that can be checked on EPA's data base; or - 'Alternate Experience' form documenting experience other than verifying 100 ENERGY STAR qualified homes (e.g., research work, provider field technician). 	<ul style="list-style-type: none"> HERS rater/provider should also be qualified to train subcontractors on energy efficiency improvements (e.g., duct sealing, air sealing, insulation installation).
<p>2. Builder Qualification</p> <p>↓</p>	<p>a) Builder signs Partnership Agreement to become an ENERGY STAR Partner.</p> <p>b) To be eligible for sampling, the builder must either:</p> <ul style="list-style-type: none"> - build a min. of 85 homes per year; or - build subdivisions and apply sampling protocol to same floor plan with same sub-contractors. 	<ul style="list-style-type: none"> Builder has established procedures for training subcontractors and incorporating in-house quality control techniques.
<p>3. Select the initial batch of homes and energy efficient measures needed to meet Energy STAR.</p> <p>↓</p>	<p>a) Builder selects an initial batch of homes and contacts a 3rd party verifier qualified to do sampling (see ENERGY STAR Partner Locator Tool on www.energystar.gov/homes.)</p> <p>b) 3rd party verifier identifies energy efficient measures (options) needed to meet or exceed ENERGY STAR based on:</p> <ul style="list-style-type: none"> • HERS rating of individual plans for each model of homes in batch, or • EPA-approved Builder Options Packages (BOPs). <p>c) If custom HERS analyses are used to select energy measures, plan reviews must be based on a worst case configuration (e.g., worst orientation, all options that increase window area, and consider options like extended family rooms, sunrooms, etc.)</p> <p>d) Builder selects energy efficient measures based on 3rd party verifier recommendations.</p>	<ul style="list-style-type: none"> 3rd party verifier performs diagnostics on an existing model home to get a baseline for current air infiltration and duct leakage. This enables the 3rd party to identify the improvement needed in these areas. Builder should select one set of energy efficient measures for all plans if possible.



Proposed Indoor Air Specifications



- Proposed specs are found under “Partner Resources” on New Homes Page at www.energystar.gov. March 12 due date
- A home must first qualify as ENERGY STAR
- A complimentary label rather than add to ENERGY STAR Spec
- Spec addresses
 - moisture control
 - radon control
 - pest control
 - heating, ventilation and air conditioning
 - combustion safety
 - materials and commissioning

2004 Ad Partnership




BUY A NEW HOME TODAY.
PROTECT THE ENVIRONMENT OF TOMORROW.

Find ENERGY STAR builder partners near you at www.energystarhomes.com

HELP YOURSELF AND THE ENVIRONMENT WHEN YOU BUY AN ENERGY STAR® QUALIFIED HOME.

ENERGY STAR qualified homes meet EPA's strict guidelines for energy efficiency. These homes provide greater comfort and durability while lowering utility costs. Energy efficiency also protects the environment by significantly reducing the greenhouse gas emissions that contribute to global warming. Learn more. Visit www.energystar.gov



WHEN YOU BUY A NEW HOME,
KEEP THE FUTURE IN MIND.

Find ENERGY STAR builder partners near you at www.energystarhomes.com



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2004 Ad Partnership



- Partners provide:
 - Participation from at least 3 partners (at least two of which being builders)
 - Funds to run an 8-13 week placement of an EPA-developed ad (or equivalent alternate media plan)
- EPA provides:
 - Funds to run a complementary ad
 - Customized ad templates for each market (partner names, logos, local web site)
- Info and templates are posted. All providers and utilities notified. Commitment forms due April 2

Multi-Family High Rise



- Multi-family high rise remains a challenge
 - must demonstrate that technical issues can be resolved
 - must demonstrate good protocol to evaluate energy efficiency
- Multi-family high rise is at the intersection of two ENERGY STAR Programs
- EPA will allow modeling but will set a defined energy budget target

Advance Lighting Pack



Category	% ENERGY STAR Fixtures
<u>High-Use Rooms</u> Kitchen, Dining Room, Living Room, Family Room, Bathrooms, Halls, Stairways	50%
<u>Medium-Use Rooms</u> Bedrooms, Den, Office, Basement, Laundry Room, Garage, Closets, and all other rooms	25%
<u>Outdoor Lighting</u> Affixed to Home, Free-standing Poles excluding landscape and solar lighting	50%
<u>Ceiling Fans</u> [Where Provided]	100%

Home Performance with ENERGY STAR

Session #4,
Tuesday 10:30



- Home Performance with ENERGY STAR is a whole house approach to improving existing homes
 - strong emphasis on building science, from diagnostics to best practice installations
 - quality assurance is essential and integral
- Message is comfort, quality, safety and durability while saving energy
- Whole house retrofits provide opportunity for raters
- Any home that achieves an 86 on the HERS scale is an ENERGY STAR qualified home

Home Performance with ENERGY STAR



- New York -- 4,000 jobs completed (Jan 2004)
- Wisconsin -- Almost 1,200 homes served
- California
- Five DOE funded Home Performance Pilots started
- \$1 million grant solicitation for national certification and accreditation program

We might not always agree, but I will
always listen...(until I have had enough)

