

# Welcome!

September 6-7, 2018

Phoenix, Arizona

## ENERGY STAR® CERTIFIED HOMES STAKEHOLDER MEETING

Utility Sponsors | Builders | Home Energy Raters





ENERGY STAR. The simple choice for energy efficiency.



## **Carolyn Snyder**

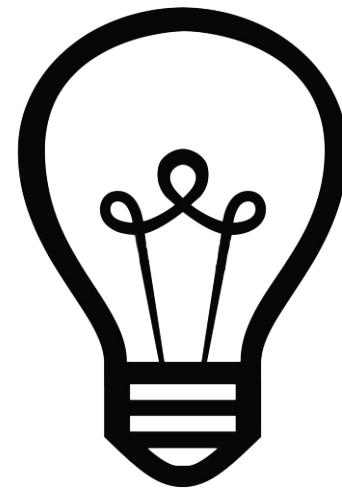
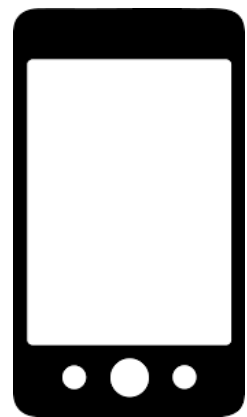
Director of U.S. EPA's Climate  
Protection Partnerships Division







WiFi: SheratonMeetingRooms  
Passcode: energystar2018



## Attention Presenters/Panelists:



Fun Fact



Last Vacation



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The organizations in the room represent

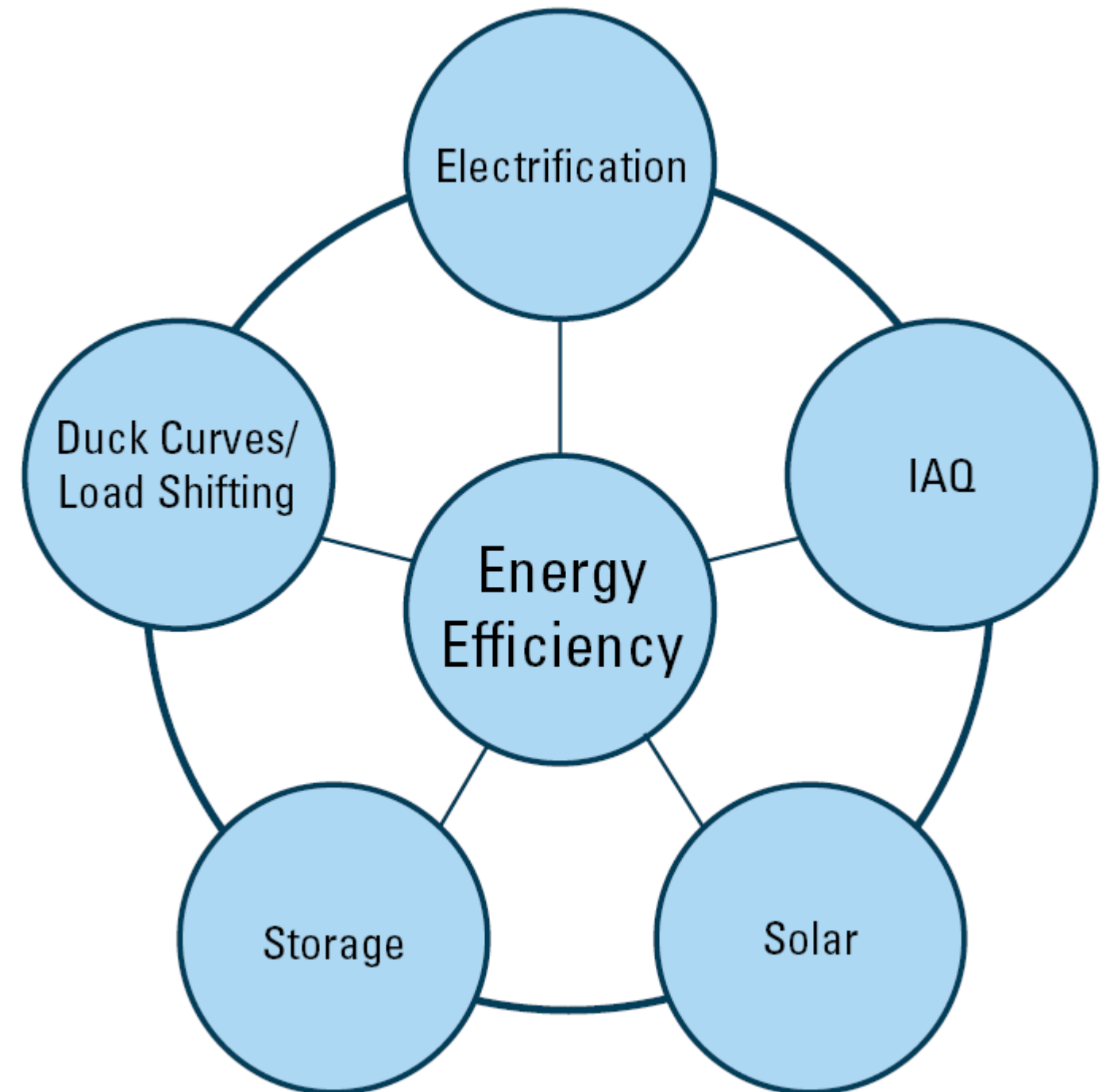


over 40%

of all ENERGY STAR Certified Homes built.



**Energy Efficiency continues to play an important role in all of these emerging trends in the market.**





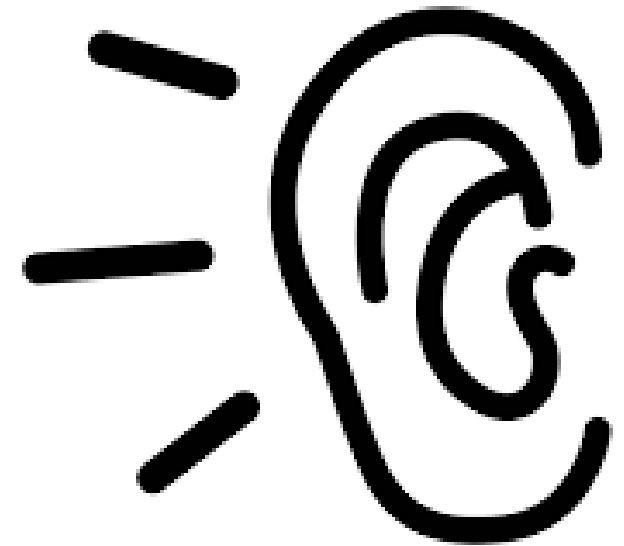
**This year the focus of the meeting will be three-fold.**



**Program Priorities**



**Market Trends**



**Listening**





# We're Listening: What's on Your Mind with ENERGY STAR?

Friday at 11:15am-12:00pm

What are we getting wrong, and how can we improve it?

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Retain this card for Friday's "We're Listening" session. Instructions will be provided Thursday.

A

What are we getting right? How can we build on this success?

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Retain this card for Friday's "We're Listening" session. Instructions will be provided Thursday.

A



THE

ENERGY STAR®

TOP  
TEN

LIST

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# #10

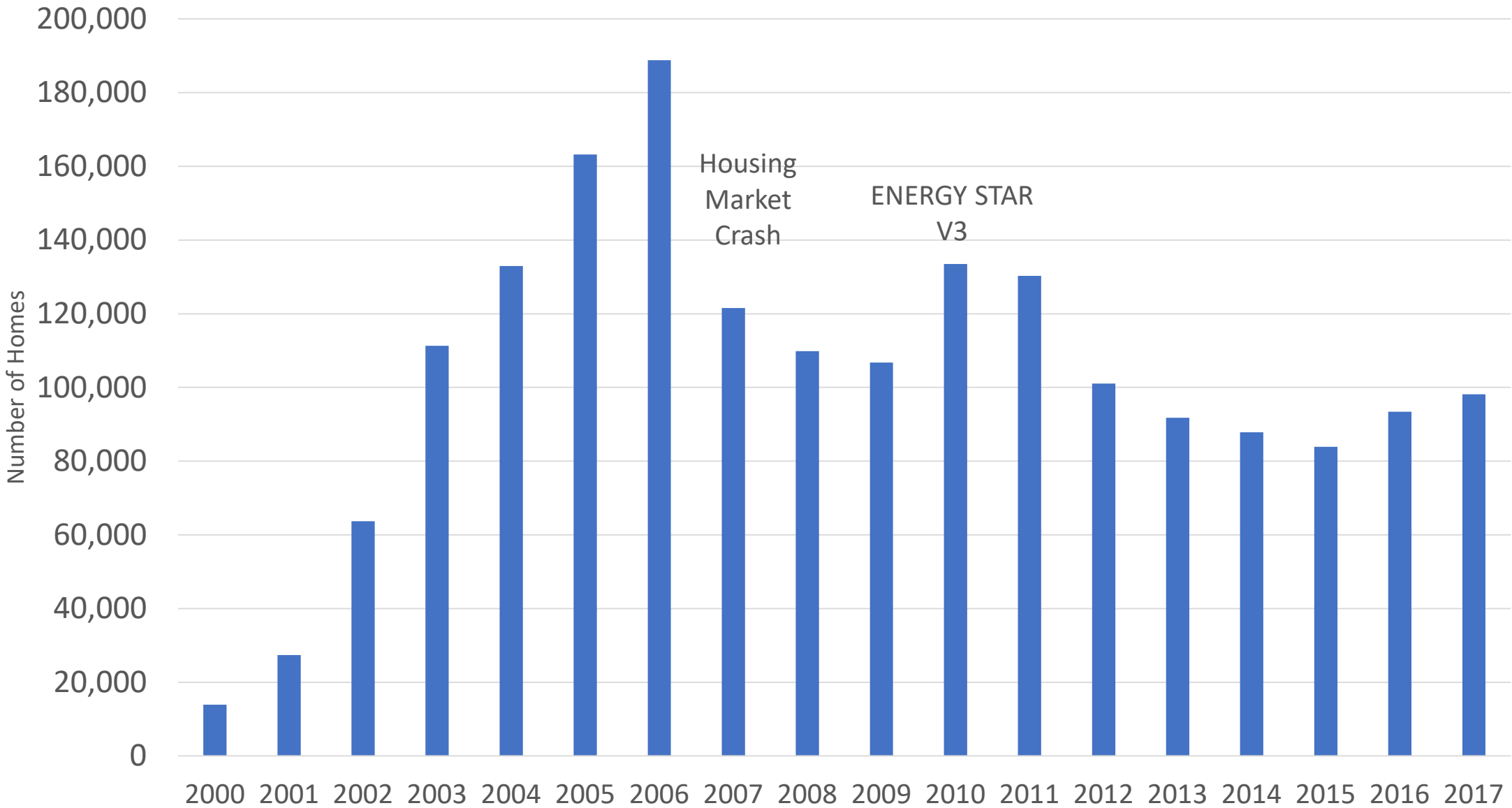
## The Numbers





# ENERGY STAR has experienced steady growth throughout housing boom.

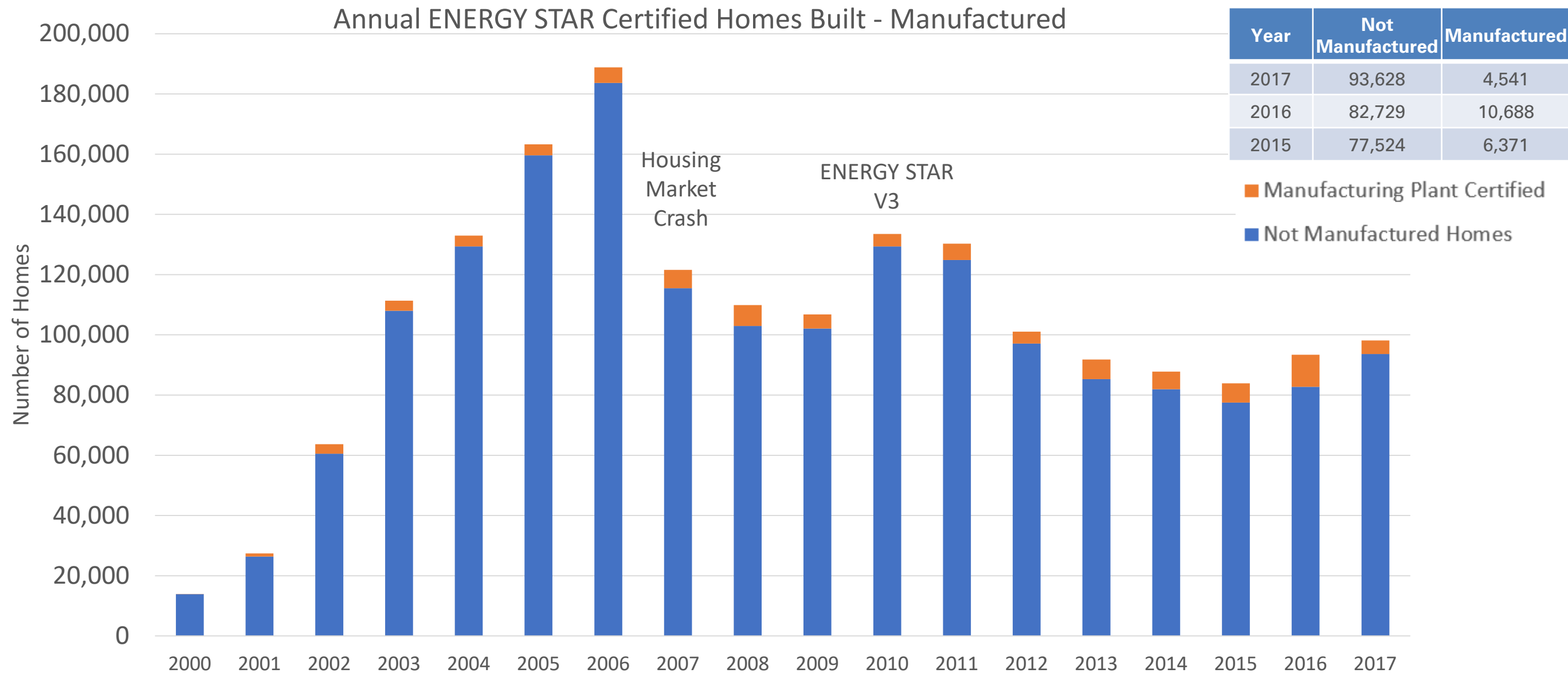
Annual ENERGY STAR Certified Homes Built - Aggregate



Year	Homes Reported
2017	98,169
2016	93,417
2015	83,895



# Manufactured homes saw a drop of 58% 2016 to 2017 with the expiration of tax credit.

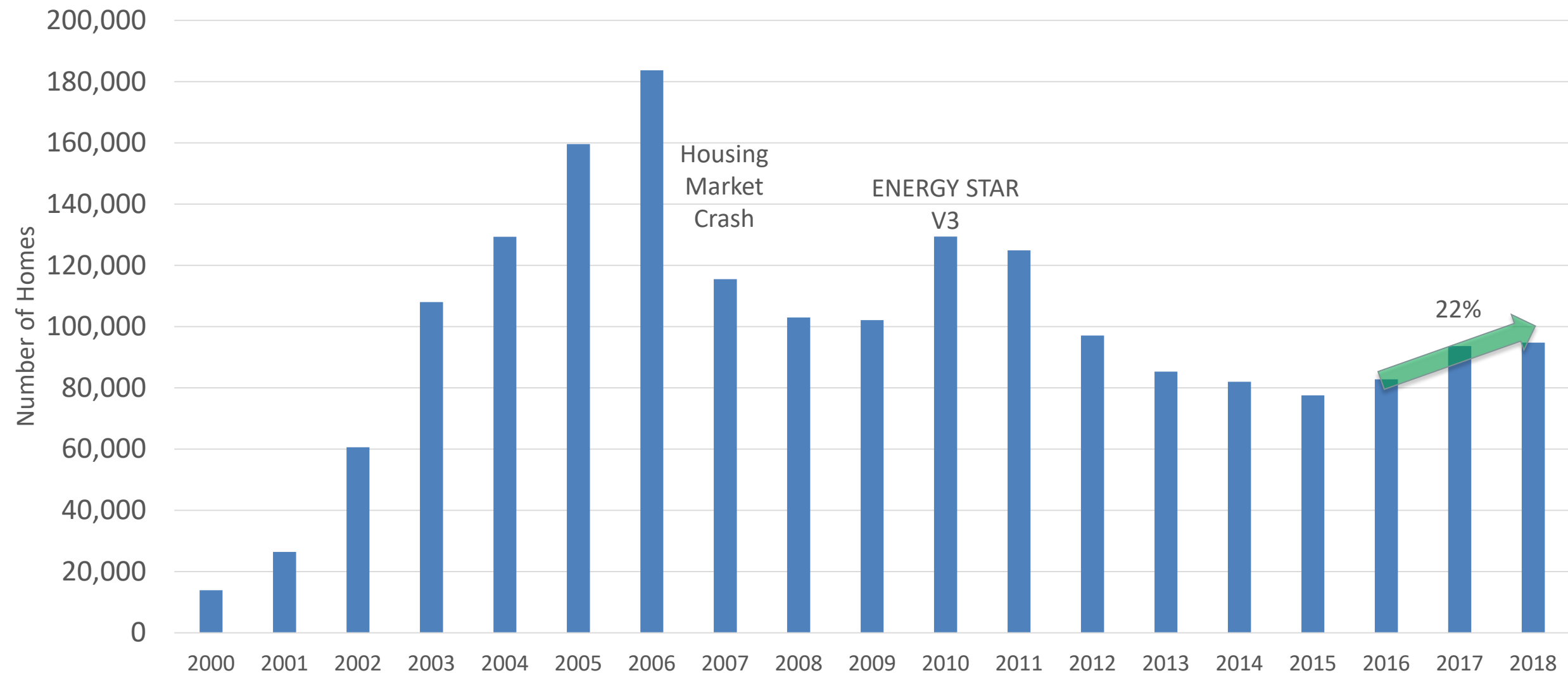






## Excluding Manufactured Homes, ENERGY STAR homes numbers have increased by 22% since 2015.

Annual ENERGY STAR Certified Homes Built – Excluding Manufactured



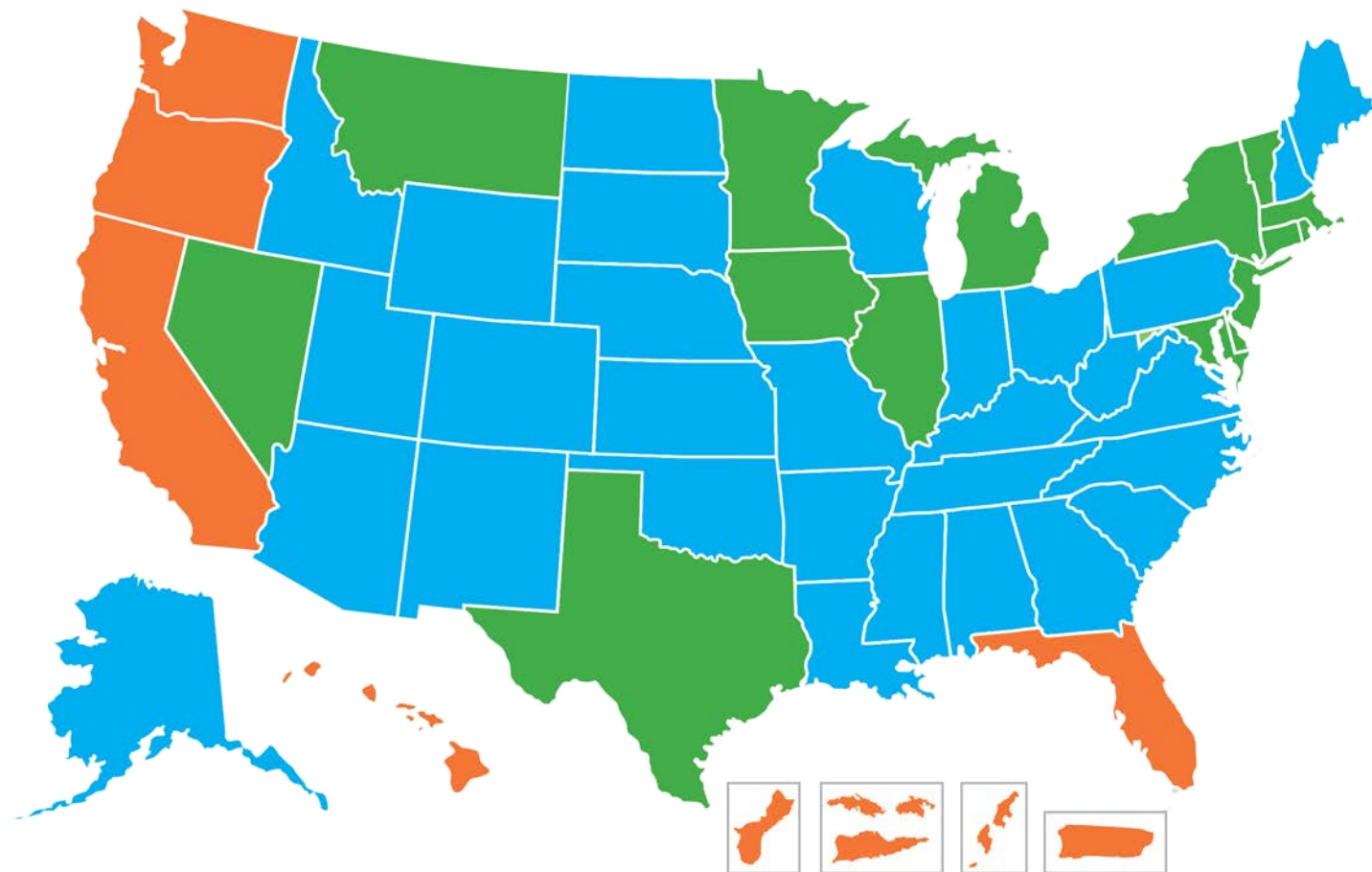


# #9

## Program Requirements



## Program Requirements



- There are now **15** states, plus D.C., for which the v3.1 implementation date has been defined, plus regional v3.1 requirements for FL, and, regional v3.2 requirements for CA, OR, and WA.

[www.energystar.gov/newhomesrequirements](http://www.energystar.gov/newhomesrequirements)



# #8

Upgraded HOST reporting with  
RESNET Registry syncing



## Simplification of reporting for partners.



- HOST will be automatically pre-populated by syncing with the RESNET registry
- Providers will still log into HOST each quarter to verify totals and rectify builder names
- This will mean a little bit less work for Providers
- It's also a huge win for industry quality assurance by providing certainty that every ENERGY STAR certification corresponds 1-to-1 with a confirmed HERS rating

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# #7

## Rev 9





## Revision 09 is here.


- **Revision 09** of the National Program Requirements, v3 and v3.1, have now been posted to the ENERGY STAR website.
- **Partners are permitted to use this Revision immediately, but must apply this Revision to all homes permitted on or after January 01, 2019.**
- Revision 09 **Webinar – September 19<sup>th</sup>**, 12:00PM EST

### Help Us Design Rev. 10 – Part 1

Dean Gamble; **Thursday** at 9:00-10:00am

### Working Session for Rev. 10 – Part 2

Dean Gamble; **Thursday** at 10:15-10:45am

**LEARN MORE AT**  
[energystar.gov](http://energystar.gov)

ENERGY STAR®, a U.S. Environmental Protection Agency program, helps us all save money and protect our environment through energy efficient products and practices. For more information, visit [www.energystar.gov](http://www.energystar.gov).

### Highlights from National Program Requirements, Version 3 and 3.1, Revision 09

Revision 09 of the National Program Requirements, v3 and v3.1, have now been posted to the [ENERGY STAR website](http://ENERGY STAR website). Partners are permitted to use this Revision immediately, at their discretion, but must apply this Revision to all homes permitted on or after January 01, 2019.

As part of this Revision, all major program documents have been updated. A Revision 09 Version Tracking Document, which contains all of the specific changes in this Revision, has also been created. EPA strongly encourages partners to review these documents. The most substantial updates are summarized below:

#### National Program Requirements Version 3 / 3.1

- Criteria related to heating, cooling, and hot water systems have been removed from the eligibility requirements for four and five story buildings. Footnote 4 has been revised to recommend that centralized heating, cooling, and hot water systems be modeled using the RESNET Guidelines for Multifamily Ratings.
- The plant-certification path for modular homes has been eliminated due to infrequent use. Modular homes will be certified using the remaining Rater-verification path, which is the same path used for site-built homes. To reflect this the Eligibility Requirements section has been updated to include modular homes, and includes a new footnote defining a modular home. Also, Step 4 of the ENERGY STAR Certification Process section has been updated to emphasize that some requirements will require Rater-verification in the plant, prior to shipment.
- While previously implied, Step 4 of the ENERGY STAR Certification Process has been updated to explicitly require homes to receive a rating and be registered with an EPA-approved Verification Oversight Organization.
- To help ensure partners are aware of the implementation timeline(s) applicable to the homes that they certify, the structure and format of the Effective Date section has been revised for greater clarity.

#### National Rater Design Review & Rater Field Checklist

- The National Rater Design Review and Field Checklists have been separated into their own individual documents.
- Item 6.2 of the National Rater Field Checklist has been revised to specify a low-end bedroom pressure-balancing limit of -3 Pa (or -5 Pa for bedrooms with a design airflow  $\geq$  150 CFM), and a high-end limit of +3 Pa (or +5 Pa for bedrooms with a design airflow  $\geq$  150 CFM). Any measured value between these limits will meet this requirement. Guidance on door configurations during testing has also been added to Footnote 34.
- To address the challenge of meeting the filter access requirement in certain homes with HVAC equipment in the attic, an alternative compliance option has been added to Footnote 52 of the National Rater Field Checklist to allow arm-length access from a portable ladder, if the ceiling height where access is provided is  $\leq$  12 ft.

#### National HVAC Commissioning Checklist

- While previously ambiguous, a document retention period of three years has been specified for the HVAC contractor to ensure that completed checklists are available for quality assurance activities.

#### National HVAC Design Report

- Item 4.2.3 has been revised to allow the conditioned floor area used in loads to be up to 100 sq. ft. smaller than the home to be certified, instead of the prior limit of zero sq. ft.
- Item 4.2.4 has been revised to allow the window area used in loads to be up to 15 sq. ft. smaller and 60 sq. ft. larger than the home to be certified, or, for homes to be certified with  $>$  500 sq. ft. of window area, between 3% smaller and 12% larger. The prior low-end limit had been zero sq. ft.
- Due to limited product availability, the allowed heating sizing limit for furnaces paired with cooling in Item 4.21 has been increased from 200% to 400%. The cooling sizing limits remain unchanged.
- To clarify that exemptions for mini-split / multi-split air conditioners do not depend on the duct length, the definition of a mini-split / multi-split system has been revised to state that, while duct runs are often limited to  $\leq$  10 ft., the length of the duct system is not a determinant for meeting this definition.

#### National ERI Target Procedure Version 3 and 3.1

- For both Version 3 and 3.1, in the Service Water Heating System section, the tank capacity specified when the rated home has a gas instantaneous hot water heater has been changed from 40 to 50 gallons.
- To address the challenges that partners faced in meeting the Version 3.1 ENERGY STAR ERI Target for Climate Zone 3, the Gas Furnace AFUE for CZ 3 in the Heating Systems section has been revised from 90 to 80. Additionally, the Size Adjustment Factor (SAF) has been eliminated in all climate zones, for Version 3.1 only, to address the same challenges.

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# #6

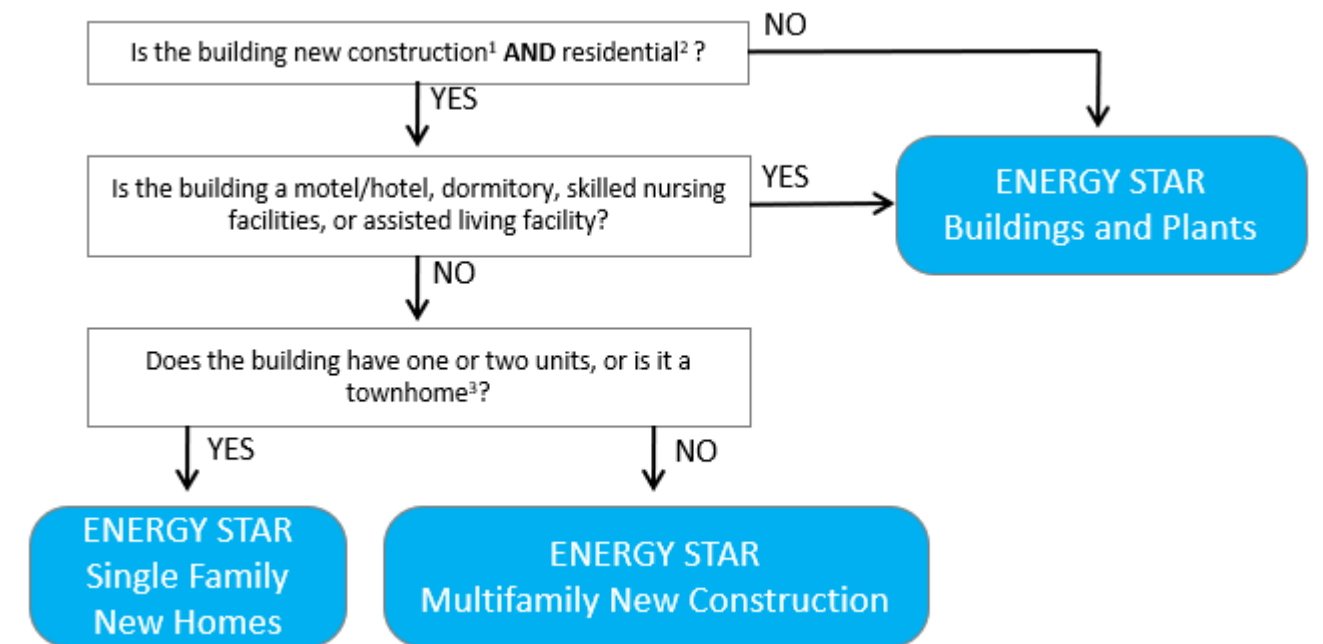
# OneMultifamily





## To better serve the multifamily sector, EPA is in the process of creating a single ENERGY STAR multifamily program.

- Program Documents Posted [November 2018](#)
- Programmatic Webinar [November 28, 2018](#)
- Effective [January 2019](#)



### Breakout Discussion on New Multifamily Certified Homes Program

Gayathri Vijayakumar; [Thursday](#) at 5:00pm

### New ENERGY STAR Multifamily Program and What it Means for Low-Rise Builders

Gayathri Vijayakumar; [Friday](#) at 10:25-11:15am

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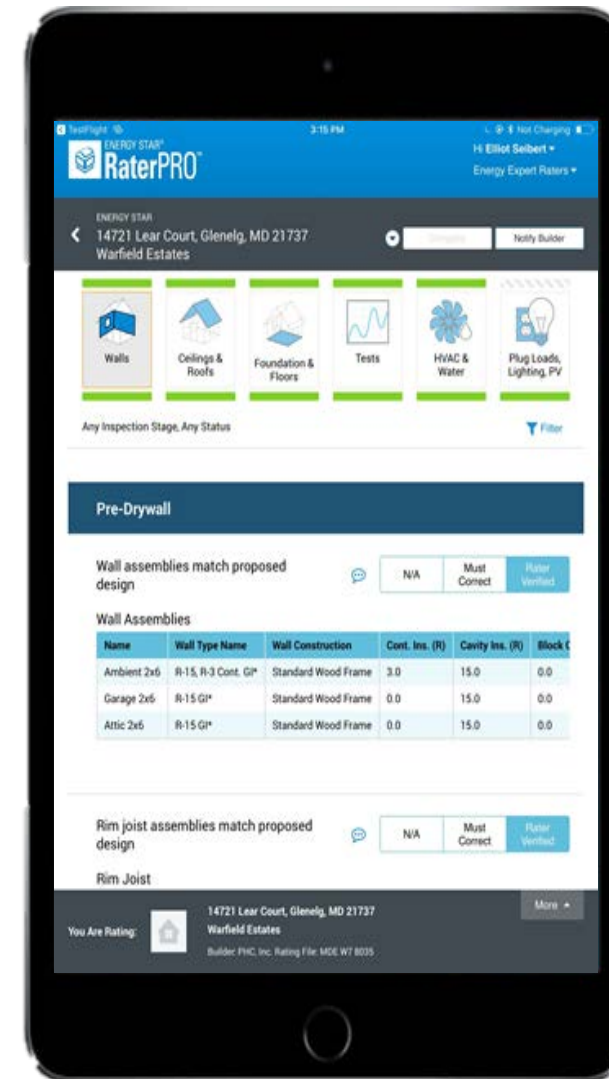
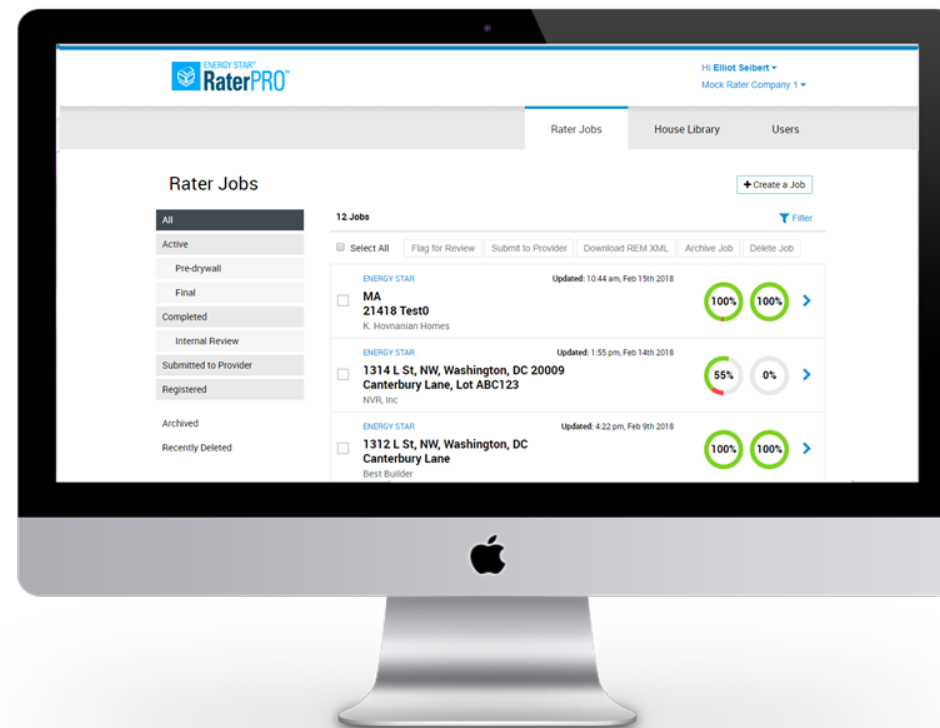
# #5

## RaterPRO

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# RaterPRO is in BETA, and expected to be live by late February 2019.







# #4

## HVAC Design Credit

## ENERGY STAR is working towards having the HVAC Design Credit Standard ready for use by late 2019.

A graphic of a document with a folded corner, outlined in black. The text "Standard for Grading the Installation of HVAC Systems" is centered on the page. A large, light gray "DRAFT" watermark is oriented diagonally across the page.

### Standard for Grading the Installation of HVAC Systems

- HERS point credits for properly installed HVAC units.
- Similar to insulation grading.
- Major step towards unifying ENERGY STAR and HERS rating.

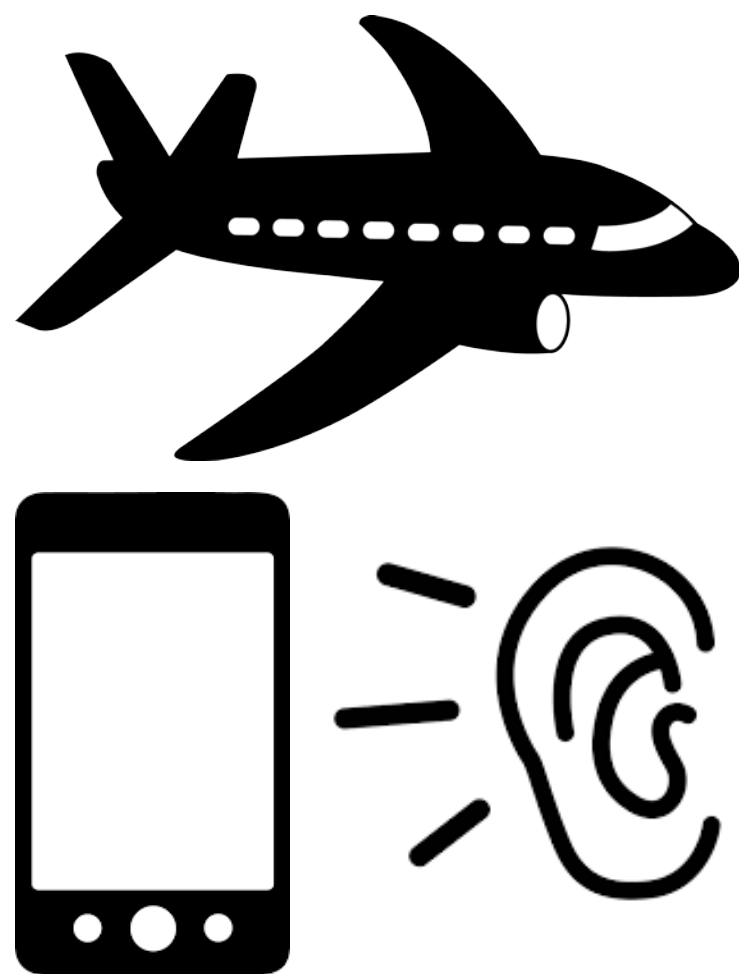


# #3

## Builder Recruitment



**We are recruiting builders, and we want your help.**





# #2

## Verification Oversight Organization **Request for Information**

## **EPA is requesting feedback on expanding eligibility of Verification Oversight Organizations (VVO) to those organizations that are 17065 recognized.**



**Comments Close November 9th**



## Understanding the roles of a 17065.

An internationally recognized standard for organizations that certify products and provides a set of criteria for various certifying organizations to help implement an effective and accredited Management System based on objective testing.





# #1

## Sales Training Kit 2.0



# What’s new with this version of sales training?

## Selling ENERGY STAR

Putting the little blue label in context

For over 25 years, EPA's ENERGY STAR program has been America's resource for saving energy and protecting the environment. While approximately 90% of American households recognize the little blue ENERGY STAR label, it is only with consumer products and appliances. Home buyers may not know much about the entire new home can be certified. The information below highlights the value and proven track record of the program.

### ENERGY STAR Program

- ENERGY STAR is the government-backed symbol for energy efficiency, providing simple, credible, and unbiased information that consumers and businesses rely on to make well-informed decisions.
- ENERGY STAR and its partners have saved American families and businesses \$430 billion on their energy bills since 1992.
- The ENERGY STAR label can be found on more than 70 product categories.

### ENERGY STAR Certified Homes



- ENERGY STAR certified homes are independently verified for energy efficiency, typically designed to be **energy efficient than a home built to code.**
- The ENERGY STAR label provides home buyers with a **built, more comfortable, and energy-efficient homes**
- ENERGY STAR certified homes are **designed and built to building practices** to deliver a home with better durability and lower maintenance costs.
- More than 1.8 million ENERGY STAR certified homes**
- Families living in ENERGY STAR certified homes have **\$350 million on their utility bills.**

More information on EPA's ENERGY STAR Certified Homes program is available at [www.energystar.gov](http://www.energystar.gov)

## Communicating the Benefits of ENERGY STAR® Certified Homes with Signage

### How to Use

This resource provides examples of displays and recommended language that can be used to showcase the features and benefits of ENERGY STAR certification. These tools are particularly important for builders to successfully highlight many of the energy efficient features found in ENERGY STAR certified homes that are not readily visible to homebuyers.

Choose from the benefit statements below and use them on printed placards, brochures, or other resources throughout your model home or apartment to draw attention to ENERGY STAR certified home features. Consider customizing these by adding your name/logo or more detailed information about the specific features that have been incorporated into your homes.

### Recommended Language

Feature	Benefit
Third-Party Verification	ENERGY STAR certified homes undergo more inspections and testing than typical homes. Gain peace of mind knowing that our homes are independently verified to meet all ENERGY STAR program requirements.
ENERGY STAR Label and Certificate	This document that a home has been third-party verified to meet ENERGY STAR program requirements and may contribute toward higher appraised value if shared with real estate professionals at time of resale.
Whole-House Approach to Design and Construction	A fully integrated approach to design and construction provides a home with better durability, better comfort, and reduced utility and maintenance costs.
Wall-to-Wall Comfort	You'll enjoy consistent temperatures between and across every room in the house. Warm and cold spots have been minimized so your entire living space is comfortable year-round.
Air-Sealed Thermal Enclosure	A comprehensive air sealing strategy minimizes leaks through the outer walls, windows, doors and other openings. Sealing these holes eliminates drafts and keeps utility bills low.
Air Sealing	A well-sealed home means better air quality because pollen, pests, and moisture can't get in as easily.
Properly Installed Insulation	Insulation in ENERGY STAR certified homes is inspected for proper installation to help maintain consistent temperatures throughout, reduce energy use, and improve comfort, especially on the hottest and coldest days.
High-Performance Windows	ENERGY STAR certified windows help keep heat in during winter and out during summer – translating into real energy savings.

- Updated Client Profiles, Source: [Energy Pulse 2017](#) by Shelton Group
- Updated Resources
  - Marketing Tools\*
  - Important Resources to Remember
- New Resources
  - Selling ENERGY STAR
  - Communicating the Benefits of ENERGY STAR\*
  - Certificate of Completion Template + Printing Tool





**Thanks to the EPA Team!!**

**Zak  
Shadid**



**Marta  
Montoro**



**Brice  
Lang**



**Rebecca  
Hudson**



**Jon  
Passe**



**Brain  
Ng**



**Elliot  
Seibert**



**Dean  
Gamble**

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**Thank you ICF and SWA!!**



Nicole



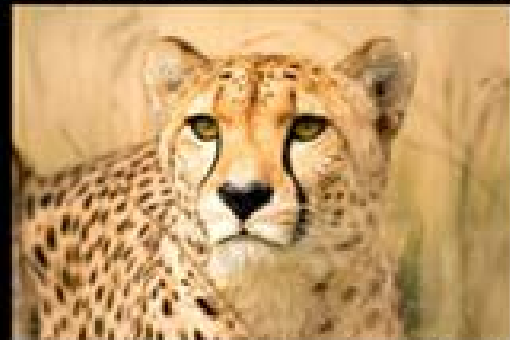
Rick



Cindy



Michael



Hillary



Thalib



Evan



Molly



Gayathri



## Agenda - Day 1



8:30-9:00am

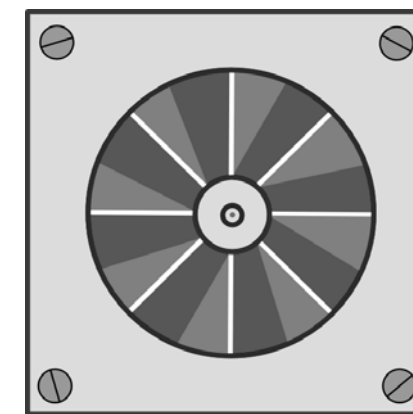


9:00-10:00am

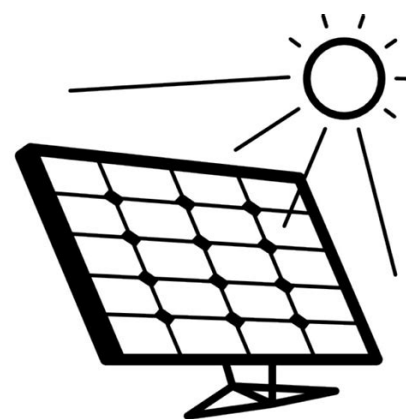
10:15-10:45am



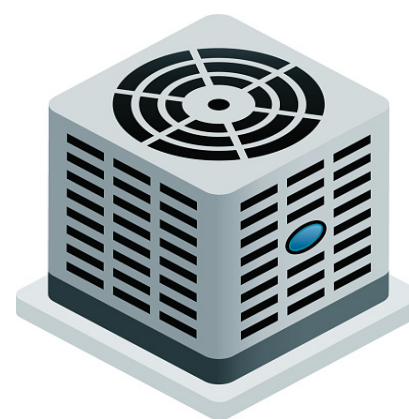
10:45-11:25am



11:25-12:15pm



1:15-2:30pm



2:30-3:15pm



3:30-5:00pm

## RaterPRO: Where We Are and Where We Are Going

