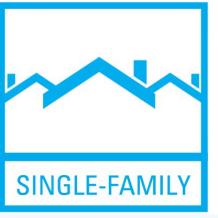


ENERGY STAR Residential New Construction Programs:The Year in Review/Year Ahead

Presented on September 21, 2021









Welcome



Jon Passe

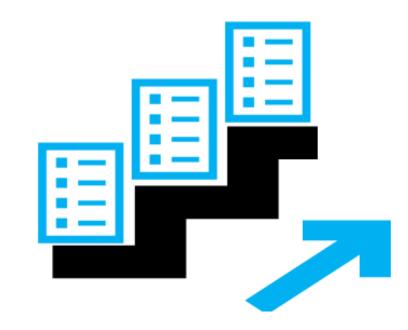
Chief

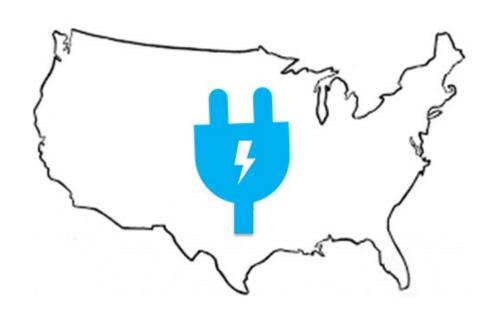
ENERGY STAR Residential Branch



The Future is Now







Look at ES Savings

Raise the Bar

Address decarbonization

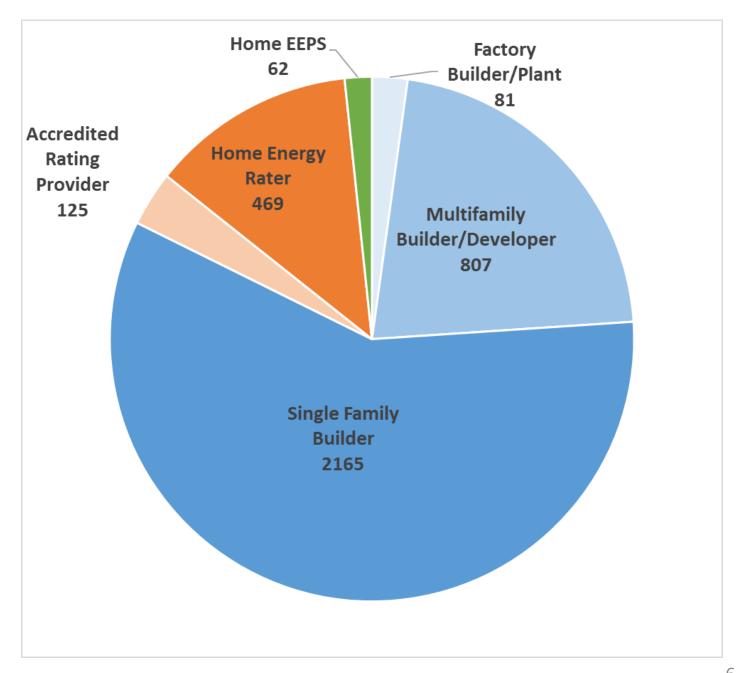




Zak Shadid Partner Support Manager ENERGY STAR Residential Branch

Partners by Organization Type

- Over 3,000 active Builder and Developer Partners
- Over 450 active Energy Rating Companies
- 62 Program Sponsor Partners





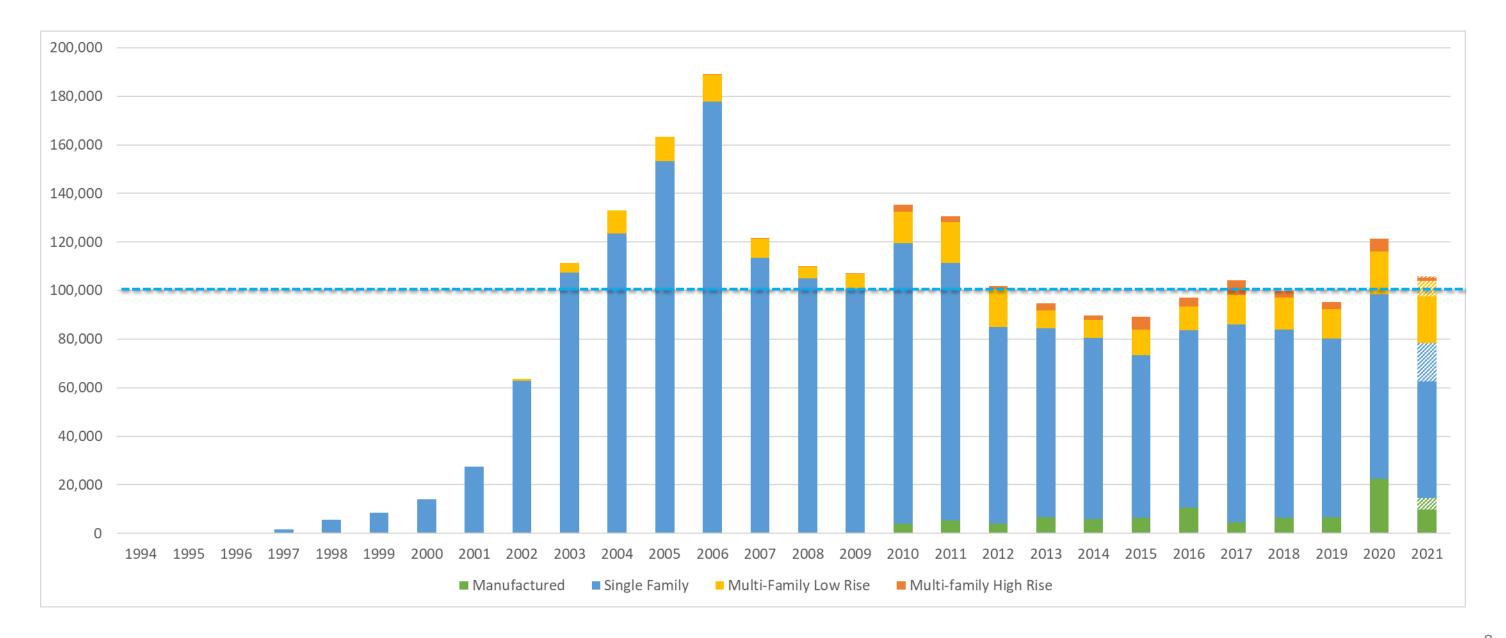
Top 25 Builders, 2021

Rank	Active ENERGY STAR Partner?	Company	2020 Total Closings	
1	ENERGY STAR PARTNER	D.R. Horton	71,292	
2	energy STAR PARTNER	Lennar Corp.	53,376	
3	energy STAR PARTNER	PulteGroup	24,624	☆10
4	Energy STAR PARTNER	NVR	19,766	☆1
5	energy STAR PARTNER	Taylor Morrison	12,524	☆10
6	energy STAR PARTNER	Meritage Homes	11,834	☆1
7	Energy STAR PARTNER	KB Home	10,672	☆1
8	Energy STAR PARTNER	Clayton Properties	9,475	
9	Energy STAR PARTNER	Century Communities	9,453	
10	Energy STAR PARTNER	LGI Homes	9,339	
11	ENERGY STAR PARTNER	Toll Brothers	8,496	
12	ENERGY STAR PARTNER	M.D.C Holdings	8,158	
13	ENERGY STAR PARTNER	M/I Homes	7,709	
	2 3 4 5 6 7 8 9 10 11 12	Rank ENERGY STAR Partner? 1 PARTNER 2 PARTNER 3 PARTNER 4 PARTNER 4 PARTNER 5 PARTNER 6 PARTNER 6 PARTNER 7 PARTNER 8 PARTNER 9 PARTNER 10 PARTNER 11 PARTNER 11 PARTNER 12 PARTNER 12 PARTNER 12 PARTNER ENERGY STAR PARTNER ENERGY STAR PARTNER ENERGY STAR PARTNER 11 PARTNER 12 PARTNER ENERGY STAR PARTNER 11 PARTNER ENERGY STAR PARTNER ENERGY STAR PARTNER 11 PARTNER 12 PARTNER ENERGY STAR PARTNER ENERGY STAR PARTNER 11 PARTNER ENERGY STAR PARTNER 12 PARTNER ENERGY STAR PARTNER	Rank ENERGY STAR Partner? D.R. Horton ENERGY STAR PARTNER D.R. Horton ENERGY STAR PARTNER Lennar Corp. PARTNER ENERGY STAR PARTNER PARTNER NVR ENERGY STAR PARTNER Taylor Morrison ENERGY STAR PARTNER Meritage Homes ENERGY STAR PARTNER KB Home ENERGY STAR PARTNER Clayton Properties ENERGY STAR PARTNER Clayton Properties ENERGY STAR PARTNER Century Communities LGI Homes LGI Homes Toll Brothers ENERGY STAR PARTNER Toll Brothers M.D.C Holdings ENERGY STAR PARTNER M.D.C Holdings ENERGY STAR PARTNER ENERGY STAR PARTNER M.D.C Holdings M.J. C Holdings M.J. C Homes	Rank ENERGY STAR Partner? D.R. Horton 71,292 ENERGY STAR PARTNER Lennar Corp. S3,376 PARTNER PARTNER PARTNER PARTNER NVR 19,766 FNERGY STAR PARTNER Taylor Morrison 12,524 Meritage Homes 11,834 Meritage Homes 11,834 Clayton Properties 9,475 ENERGY STAR PARTNER Century Communities 9,453 10 ENERGY STAR PARTNER LGI Homes 10,672 ENERGY STAR PARTNER LGI Homes 9,339 11 ENERGY STAR PARTNER LGI Homes 12,524 Meritage Homes 10,672 ENERGY STAR PARTNER Clayton Properties 9,475 9 ENERGY STAR PARTNER LGI Homes 9,339 11 ENERGY STAR PARTNER Toll Brothers 8,496 12 ENERGY STAR PARTNER M.D.C Holdings 8,158

		Rank	Active ENERGY STAR Partner?	Company	2020 Total Closings
		14	ENERGY STAR PARTNER	Hovnanian Enterprises	6,414
		15	ENERGY STAR PARTNER	Ashton Woods Homes	5,998
100)%	16	ENERGY STAR PARTNER	David Weekley Homes	5,560
LOC)%	17	ENERGY STAR PARTNER	Beazer Homes	5,492
LOC)%	18	ENERGY STAR PARTNER	Tri Pointe Homes	5,123
100)%	19	ENERGY STAR PARTNER	Mattamy Homes	4,228
LOC)%	20	ENERGY STAR PARTNER	Habitat for Humanity Int.	3,466
		21	ENERGY STAR PARTNER	Stanley Martin Homes	3,436
		22		Highland Homes	3,361
		23	ENERGY STAR PARTNER	Perry Homes	3,261
		24	ENERGY STAR PARTNER	Dream Finders Homes	3,154
		25	ENERGY STAR PARTNER	Gehan Homes	3,053



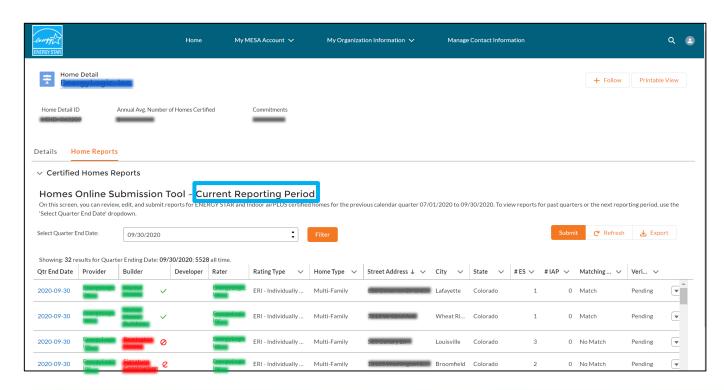
ENERGY STAR Certifications By Year





New Homes Online Submittal Tool (HOST)

- Uses an API to transmit specific data directly from the RESNET Registry
- Providers perform data quality/matching to org names in ES database
- Reduces manual data entry and improves data quality
- Increases consistency with RESNET Registry



Improvements Coming Soon

- Integration with Indoor airPLUS Reporting
- Improved 'matching' on names populated from the Registry
- Improved multifamily building roll-ups using the Building Name field



Communications Toolkit & Website



Marta Montoro
Communications



Marketing & Communications - Updated Program Materials released in April



We are proud to offer new homes that have earned the ENERGY STAR® label. ENERGY STAR certified new homes are designed and built to provide superior comfort and savings compared to most new homes currently on the market. Offering more than just efficient appliances, certified homes integrate energy efficiency from the ground up.

Get comfortable in an ENERGY STAR certified new home.

The right choice, for today and tomorrow.

ENERGY STAR certified new homes are energy efficient by design, with savings that start now and continue into the future. Better systems and construction features make all the difference throughout your home.

- . Advanced air sealing, high-quality insulation, and high-performance windows for reduced leaks and drafts provide more consistent temperatures and minimize dust pollen, and other allergens.
- · High-efficiency heating and cooling system for improved comfort.
- Comprehensive water management techniques protect against moisture damage.

Built on a foundation of trust.

For more than 25 years, ENERGY STAR certified new homes have set the standard for quality, efficiency, and lasting value.

- Meet strict requirements set by the U.S. Environmental Protection Agency.
- Tried-and-true best building practices.
- . Third-party tested, inspected, and certified



A better home for a better tomorrow.

ENERGY STAR certified new homes are just built better. More comfort, Increased

savings. A better, healthier world. That's what you can expect from your ENERGY STAR

Learn more about ENERGY STAR certified new homes at energystar.gov/newhomes.



designed and built so that all energy efficiency systems and features work together to deliver better performance. The ENERGY STAR label on a new home means it was designed and built to standards well above most other homes on the market. And energy efficiency is just the beginning. ENERGY STAR certified new homes deliver economic value today and hold that value far into the future, thanks to their high-quality features and systems.



hetter tomorrow ENERGY STAR certified new homes are just built better. More comfort. Increased savings. A better, healthier world. That's what you can expect from your ENERGY STAR certified new home.

Learn more about ENERGY STAR certified new homes at energystar.gov/newhomes.

increase efficiency, and keep you more comfortable. High-efficiency systems also provide better indoor air quality, moisture control, and quieter operation.

ENERGY STAR builder partners meet all the requirements of EPA's comprehensive HVAC Quality Installation to ensure . Equipment and associated ductwork are sized and

- installed correctly to maximize comfort and performance." Ducts are properly sealed to reduce air leakage
- ensure comfort, and safeguard indoor air quality
- · Ventilation and filtration systems are calibrated correct to reduce indoor air pollutants.

**A home may be certified as part of a sample set of hom undergone random testing and inspections.

Home Energy Raters work with ENERGY STAR builder partners. throughout the construction process to ensure:

features that fit your climate region.

The future

starts here.

- . Critical requirements are verified at each phase
- . Key systems in your new home are working properly to
- of construction.
- deliver better efficiency, durability, and comfort.



Learn more about ENERGY STAR certified new homes at energystar.gov/newhomes or scan the QR code

Lighting and Appliances

ENERGY STAR certified new homes often include lighting

and appliances in a complete energy efficient package

that meets EPA's rigorous guidelines. ENERGY STAR

certified lighting and appliances meet strict energy

efficiency standards to deliver better performance and quality, without sacrificing style and design.





It's Time to CELEBRATE!

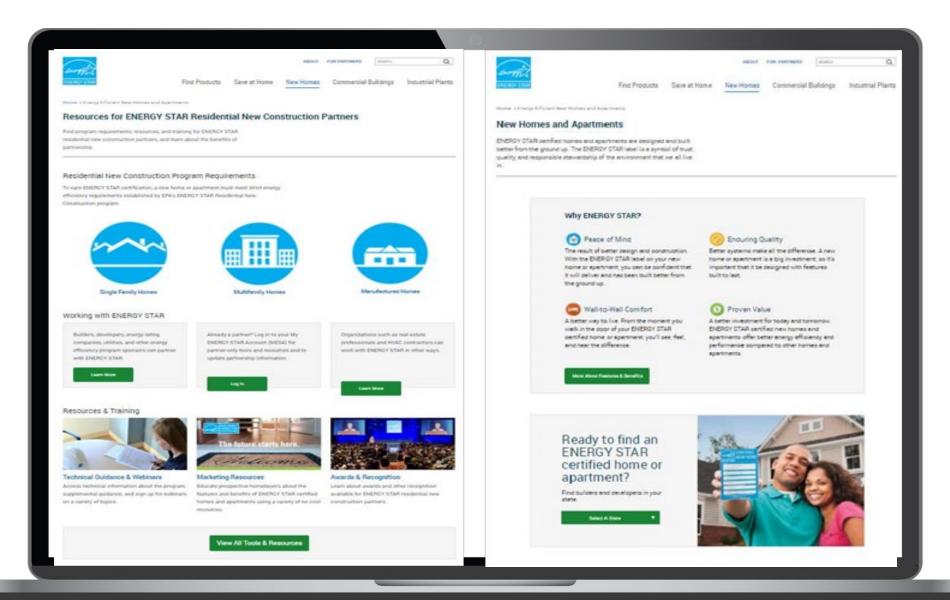
We're celebrating the major milestone of building over 2 million ENERGY STAR certified homes and counting. We're excited about this major accomplishment by our partners.

But not only are we excited-every family in America that has made a choice to live in an ENERGY STAR certified home has something to celebrate, too. They're creating a better future for their families and for their communities.

So join in the celebration!



Website Updates – Partner Resources & Consumer Landing Page



 Landing pages and some internal program pages have been updated with a new look and feel; imagery is consistent with the new media campaign.



Fall Communications Kit for Partners

EPA is creating a Fall Partner
Communications Kit with ads and other
assets. Materials will include:

- Variety of digital ads for Partners based upon the updated messaging pillars and design strategies.
 - Multiple images and dimensions
 - Multilingual versions (Spanish)
- Seasonal social media post content
- Co-brandable postcard





2 million reasons to celebrate.





ENERGY STAR Day 2021

- Tuesday, October 26
- Highlighting partner efforts to bring the benefits of energy efficiency to underserved communities
- EPA will be promoting these efforts across multiple media channels







ENERGY STAR® Day Toolkit 2021

Promotional Instructions, Messaging & Materials



Multifamily New Construction (MFNC) Transition Highlights



Rebecca Hudson Technical Manager ENERGY STAR Multifamily New Construction



July 2021 Transition to Multifamily New Construction



















First MFNC Certified Building







Expanding the option to use Advanced Framing

3. Reduced Thermal Bridging				
3.7 At above-grade walls and rim / band joists separating conditioned space from the exterior, one of the following	options us	ed: ^{23, 26}		
3.7.1 Continuous rigid insulation, insulated siding, or combination of the two is: ≥ R-3 in CZ 1-4; ≥ R-5 in CZ 5-8 ^{24, 25, 26, 27} , OR ;				
3.7.2 Structural Insulated Panels OR ; Insulated Concrete Forms OR ; Double-wall framing OR ; ^{24, 26, 28}				
3.7.3 Option only for wood-framed walls either in CZ 1- $\frac{5}{2}$ OR \leq 3 stories: 'advanced framing' details including all of	of the Items	s below: ²⁶	, 29	
3.7.3a Corners insulated ≥ R-6 to edge ³⁰ , AND ;				
3.7.3b Headers above windows & doors insulated ≥ R-3 for 2x4 framing or equivalent cavity width, and ≥ R-5 for all other assemblies (e.g., with 2x6 framing) ³¹ , AND ;				
3.7.3c Interior / exterior wall intersections insulated to same R value as rest of exterior wall. 32				
3.7.3d In Climate Zone 5, for > 3 stories, ≥ 5.5" framing depth used with wall cavity insulated ≥R-20.0.				



Key Improvements and Clarifications

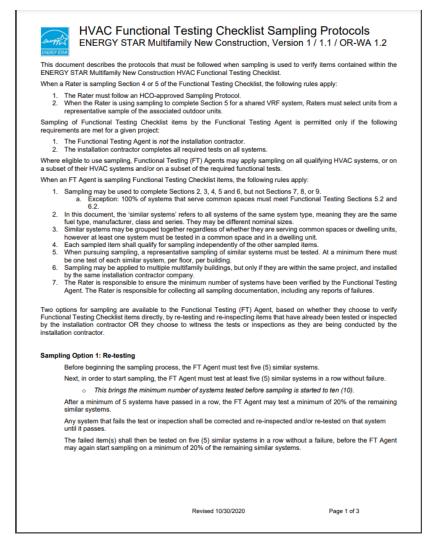
- Expanding the option to use advanced framing to CZ4 & CZ5
- Creating flexibility when meeting code-based minimum insulation requirements
- Coordinating with phius 2021 to create new source energy targets
- Requiring hot water delivery temperature measurement just at faucet, not showerhead
- Clarifying insulation requirements for concrete floors & perimeter edges

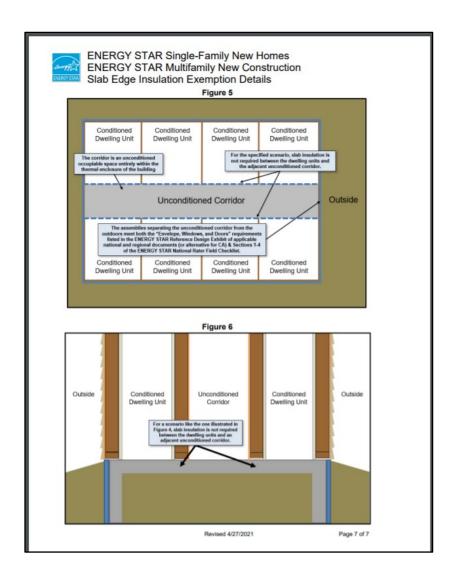




MFNC Resources

	ENERGY STAR Multifamily New Construction Certification Process for Raters				
	ERI	ASHRAE	Prescriptive		
	Confirm that your Developer/Builder and your Energy Rating Company (ERC) have signed a <u>partnership agreement</u> with EPA by checking the <u>ENERGY STAR Partner List</u>				
	Confirm that the Rater for the project (1) holds approved credentials (e.g., Certified Rater, Approved Inspector), (2) has completed required ESMFNC training and (3) (optionally) is listed on the MFNC Trained Raters list				
Getting Started	Confirm that the Functional Testing Agent has or will complete online orientation and confirm it, as the Rater, you will complete any aspects of the Functional Testing Checklist (i.e., Section 5 or by using HVAC Grading)				
8	Optional: Hold kick-off meeting and/or provide program documents to design team				
ij	Note: No ENERGY STAR project application is required to enroll in the MFNC program!				
,	Confirm Energy Rating Company is engaged with Home Certification Organization (HCO) and aware of	Engage <u>Multifamily Review</u> Organization (MRO) Confirm that the energy modeler has or	Engage Multifamily Review Organization (MRO)		
	quality assurance requirements	will complete the online orientation			
	Request	HVAC Design Report from HVAC designe	r or MEP		
	Complete Rater Desi	ign Review Checklist (PDF OR within the N	fultifamily Workbook)		
6	Optional: Review construction drawings to confirm design complies with all program requirements as listed in the 4 other key program documents (Rater Field, HVAC Design, HVAC Functional Testing & Water Management)				
Design	Strongly recommended: Submit proposed design documentation to oversight organization for review				
	Complete preliminary energy modeling (dwelling units)	Complete preliminary energy modeling (building)	(No modeling required)		
	Optional: Complete MF Workbook (with Design components completed)	Complete MF Workbook (with Design components completed)	Complete MF Workbook (with Design components completed)		
,	Verify all items on Rater Field Checklist (via inspections and diagnostic tests)				
Build	Collect HVAC Functional Testing Checklist, completing Section 5 if applicable				
_	Optional: Update MF Workbook	Update MF Workbook	Update MF Workbook		
it iction	Complete final energy model to reflect as-built conditions for all dwelling units	Complete final energy model to reflect as-built conditions	(No modeling required)		
Post Construction	Submit each dwelling unit's energy model to HGO	Submit As-Built Submittal (ABS) to MRO	Submit As-Built Submittal (ABS) to MRO		
	Save copies of all documents per oversight organization requirements				
elling	Send ENERGY STAR dwelling unit labels (and building certificates, if requested) to Developer/Builder				
Narketing &Labeling	Coordinate with <u>HCO or Rating</u> Provider to report certified units to EPA	No action required. MRO reports certified projects to EPA	No action required. MRO reports certified projects to EPA		
. 8	Follow <u>HCO</u> protocol for file/field quality assurance reviews	Follow MRO protocol for file/field quality assurance reviews	Follow MRO protocol for file/field quality assurance reviews		
Quality Assurance	[10% of units by Rater file-reviewed, 1% of units field-reviewed, including cample of common space in building)	[100% file review, 1% of all projects field-reviewed; based on MRO's volume, not by Rater]	[100% file review, 1% of all projects field-reviewed; based on MRO's volume, not by Rater]		





Certification Process Technical Bulletin

Functional Testing Sampling Protocols

Slab Edge Exemption Details

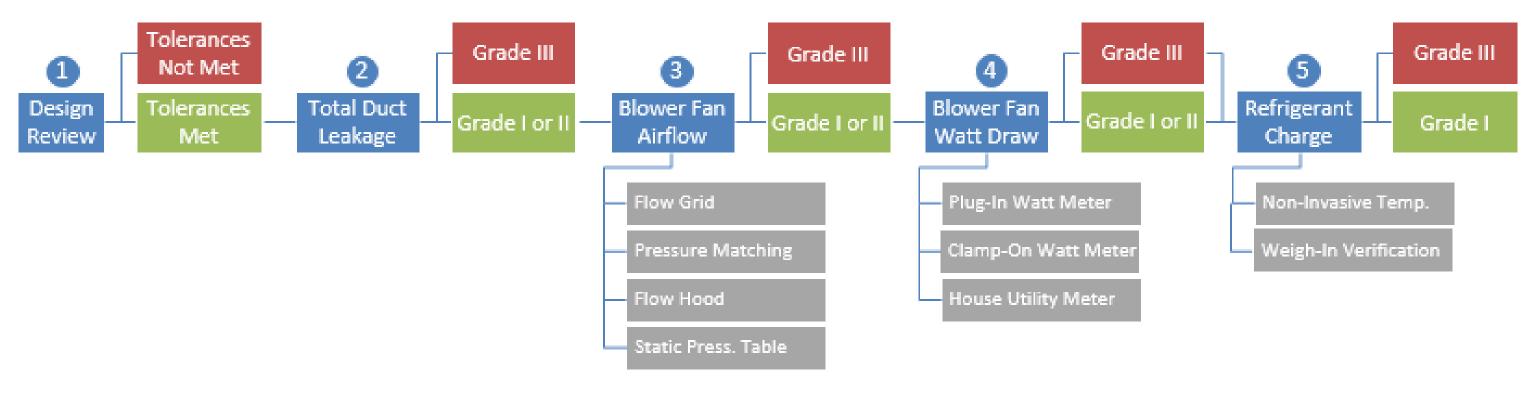


HVAC Grading Roll Out



Dean Gamble
Technical Manager
ENERGY STAR Single-Family New Homes







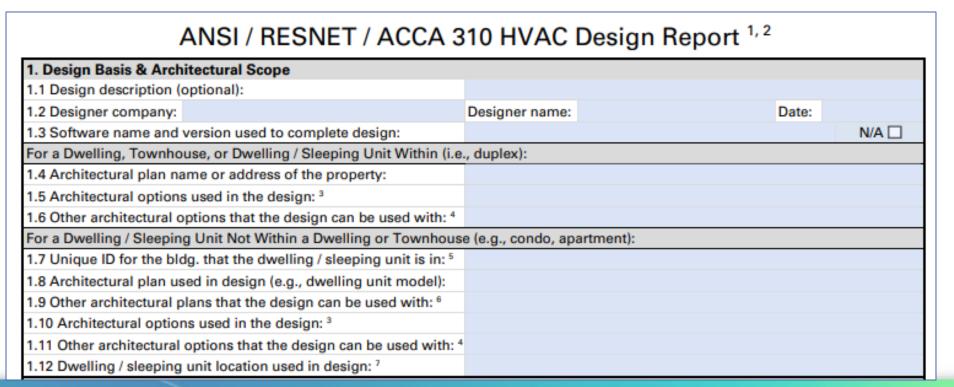
ERI points can now be earned for HVAC grading in all rating software programs.







- 2. Std. 310 HVAC Design Report template has been completed:
 - Go to: www.resnet.us/about/standards/resnet-ansi/ under Calculators & Tools.
 - Being programmed into design software, so designer can complete with ease:
 - Wrightsoft has completed this!
 - EnergyGauge USA will be adding it very soon.
 - Elite RHVAC has committed to adding it and is assessing their timeline.





- 3. ENERGY STAR Supplement to Std. 310 template has been completed:
 - Go to: www.energystar.gov/newhomesrequirements.
 - When using HVAC grading for ENERGY STAR, collect:
 - a) Std. 310 design report + this supplement, or,
 - b) Std. 310 design report + ENERGY STAR HVAC Design Report
 - Supplement can be used for SFNH and dwelling / sleeping units in MFNC.
 MFNC has an additional design supplement for common spaces.





- 3. ENERGY STAR Supplement to Std. 310 (cont.):
 - This supplement is also being programmed into design software:
 - Wrightsoft has committed to add this by the end of the year.
 - EnergyGauge USA has committed to add this and is assessing timeline.
 - Elite RHVAC has committed to add this and is assessing timeline.



4. HVAC grading tech bulletin and fact sheets for both SFNH and MFNC coming soon:



Track A - HVAC Grading Now Available for Use!

Track A - HVAC Grading is a collection of requirements built upon ANSI / RESNET / ACCA / ICC Standard 310 that can be used to satisfy many of the HVAC design and commissioning components of the ENERGY STAR Single-Family New Homes program.

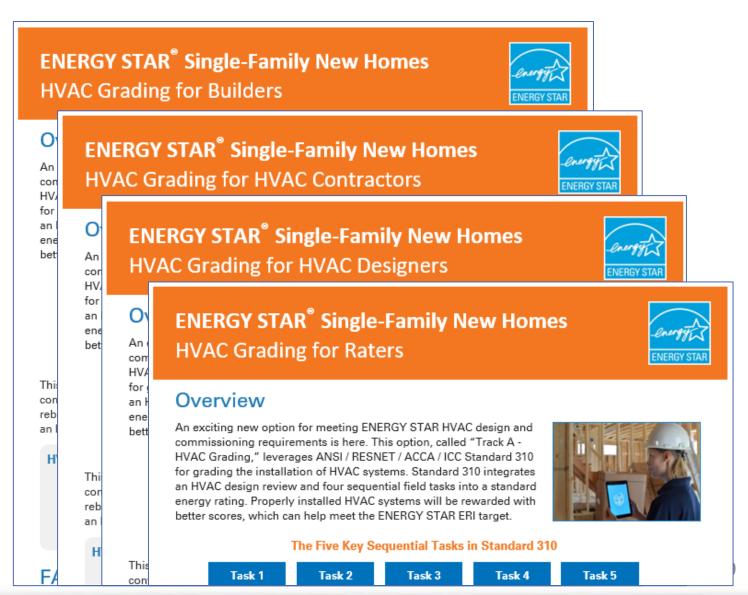
And now, with the release of updates for Ekotrope and EnergyGauge USA (and with the expected updates to REM/Rate coming soon), Track A - HVAC Grading, can now be used.

While this new track is available for use, partners are free to continue using Track B - HVAC Credential. Track B is a collection of requirements built upon the use of a credentialed HVAC contractor. While the name "Track B - HVAC Credential" is new, this is the familiar set of requirements that partners have been using to date.

Key Benefits of Track A - HVAC Grading

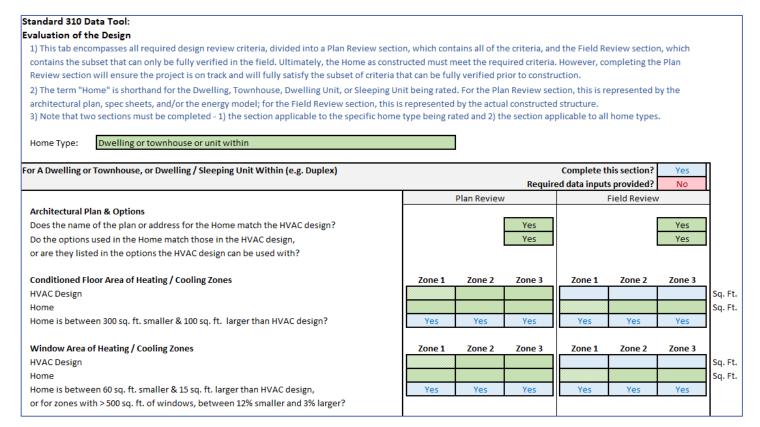
HVAC grading makes it easier to certify ENERGY STAR single-family new homes:

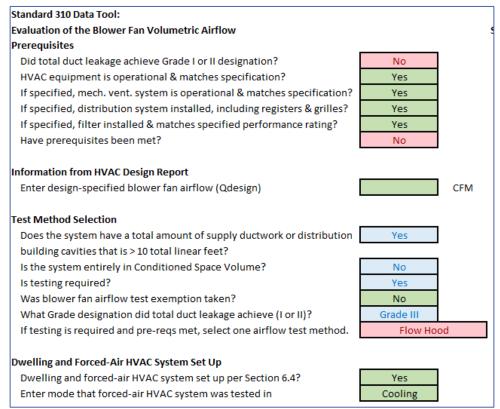
- Integrates most ENERGY STAR HVAC requirements into a standard energy rating
- Does not require the use of a credentialed HVAC contractor
- Does not require the contractor to complete the HVAC Commissioning Checklist
- · Rewards proper installation with ERI points and helps meet the 45L tax credit





- To-do list:
 - 1. RESNET Raters and RFI's, complete mandatory Std. 310 training.
 - 2. Model potential ERI impacts.
 - 3. Explore handy Excel "Std. 310 Data Tool" on RESNET's site.





4. Try out Std. 310 by assessing different test methods on several homes.



Program Requirements



Forthcoming Revisions to SFNH and MFNC program

A Revision...

1 Clarifies

2 Simplifies

3 Improves

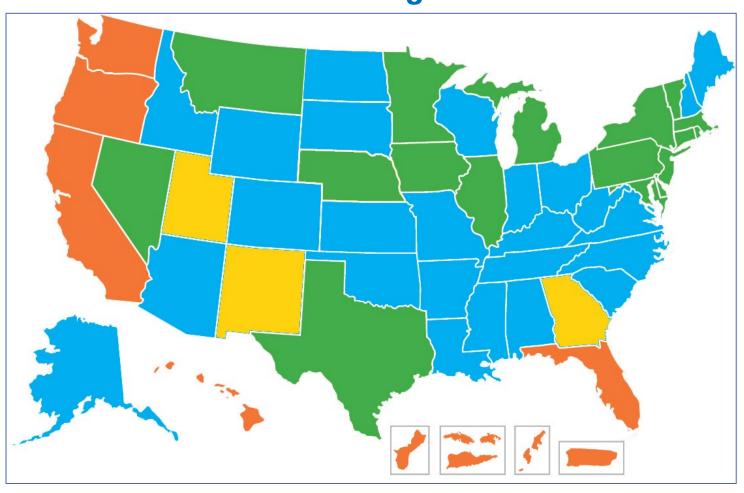
- SFNH Rev. 12 and MFNC Rev. 03 arriving this winter.
- Already covered the highlights for the MNFC program.
- For the SFNH program, not anticipating many / any significant changes.

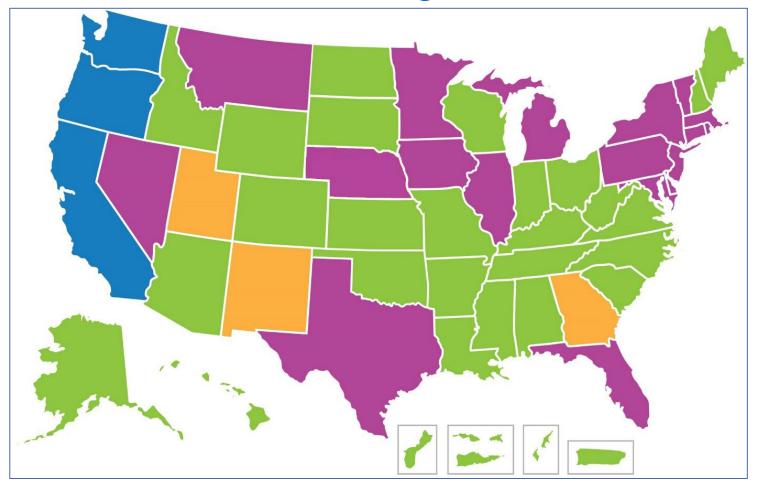


Current Implementation of Program Requirements

SFNH Program

MFNC Program





- **National v3 in effect**
 - National v3.1 date defined
- **Version 1 in effect**
- **Version 1.1 date defined**

- National v3.1 in effect
- **Regional Version in effect**
- **Version 1.1 in effect**
- Regional v1.2 in effect



National program Version updates

- New states implementing SFNH National Version 3.1 / MFNC National 1.1:
 - Georgia implementation date: 07/01/2022
 - New Mexico implementation date: 07/01/2022
 - Utah implementation date: 07/01/2022



State, Region, & Sector-Specific Program Modifications

 Modifications to our base program requirements are needed in several situations, continuing past practice of having differentiated versions:

- CA (SFNH & MFNC):

- Code exceeds 2021 IECC and uses a unique state-specific compliance metric.
- Stakeholder comment period for new version before end of year.

– WA (SFNH & MFNC):

- Code exceeds 2021 IECC and sets higher bar for gas homes than electric homes.
- Stakeholder comment period for new version before end of year.

Caribbean (SFNH & MFNC) & Pacific (SFNH):

- Due to unique climate & building practices, region-specific versions have been developed.
- SFNH is developing a new version for the Pacific in response to new HI code.

– Manufactured Homes:

- New HUD code has been proposed for comment (via DOE).
- Developing a new version in response.



Program Roadmap Preview Three New Initiatives



Elliot Seibert Implementation Manager ENERGY STAR Single-Family New Homes



RaterPRO Retirement

- RaterPRO is being retired
- We are working with users for smooth transition
- Open-Source code is available
- EPA remains strong advocate for digital data collection





Three New Initiatives

In early October, we'll have a stakeholder feedback period on:

- 1. National Transition to Version 3.1 and Version 1.1.
- 2. **Definition** of Version 3.2 and Version 1.2 for states that adopt the 2021 IECC.
- 3. Introduction of a new certification, above and beyond the current ENERGY STAR new construction programs, encompassing five forward-looking features.



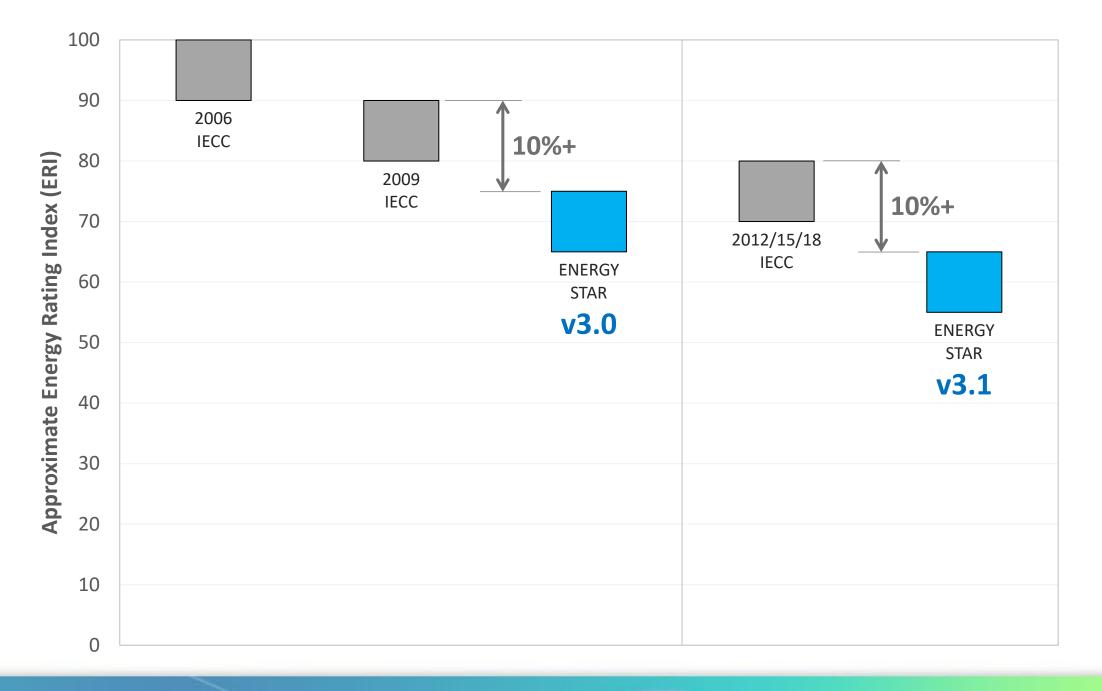
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National Transition to Version 3.1 and Version 1.1

(SFNH v3.1 & MFNC v1.1)

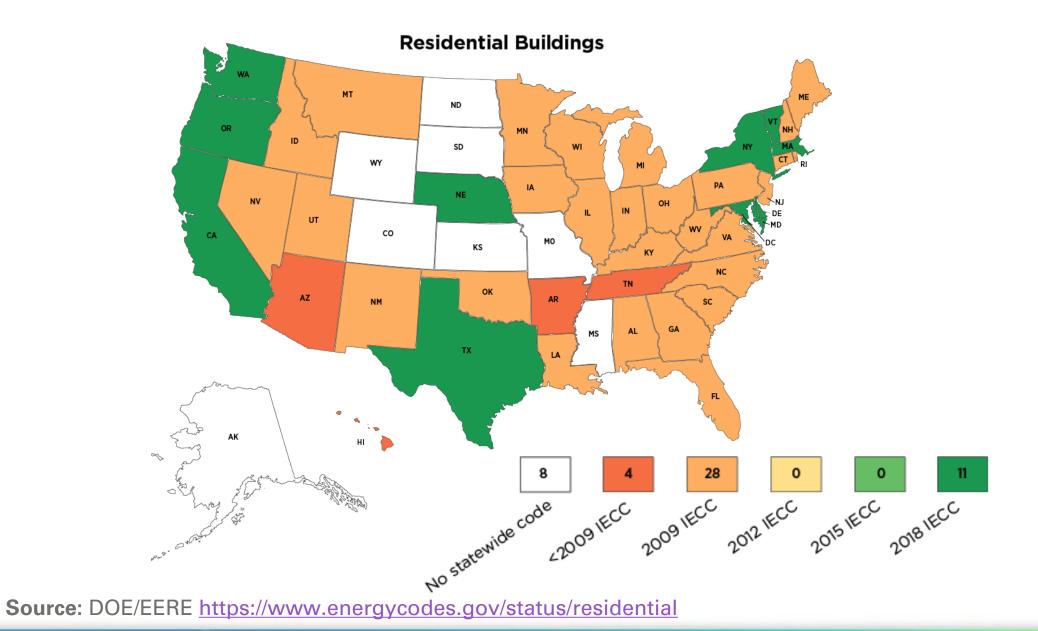


Modern code evolution

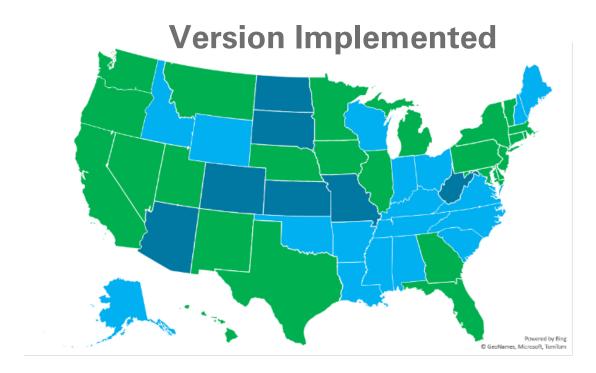




Adoption of state energy codes



National Transition to Version 3.1 and MFNC v1.1



- Version 3.1+ (national or regional), including 4 states with upcoming transition dates defined*
- 7 Version 3.0 due to home rule
- **18 Version 3.0** due to code ≤ IECC 2009

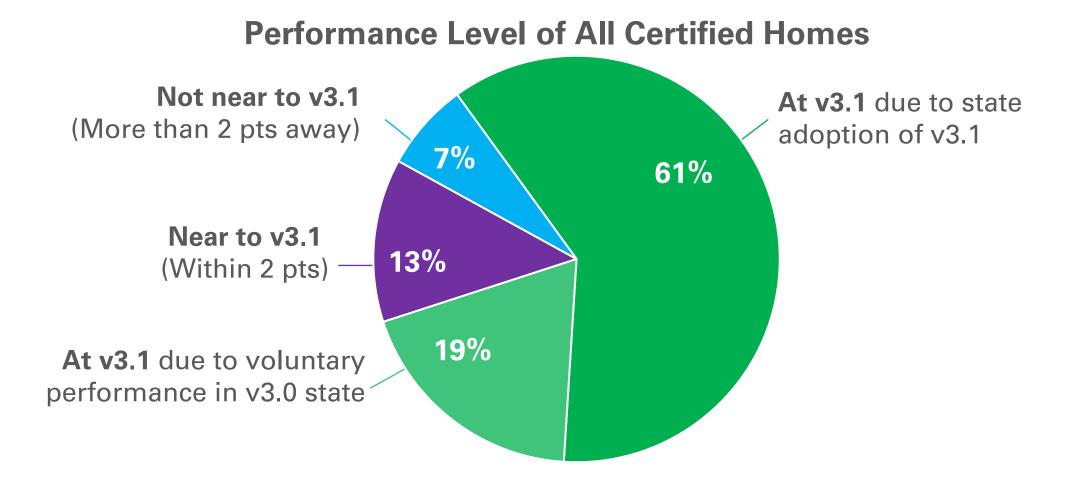
*Includes GA, UT and NM, for which EPA has already announced a transition to Version 3.1 based on state code updates.



42

National Transition to Version 3.1 and MFNC v1.1

• 93% of single-family homes certified as ENERGY STAR between 08/2019 and 08/2020 were already at or near the v3.1 level:





What are we proposing?

- Transitioning all states still using Version 3.0 to Version 3.1.
- For MFNC, similar transition of states using Version 1.0 to Version 1.1.
- Transition date of January 1, 2023 (based on permit date).
- Pending stakeholder feedback, final determination anticipated by the end of the year.

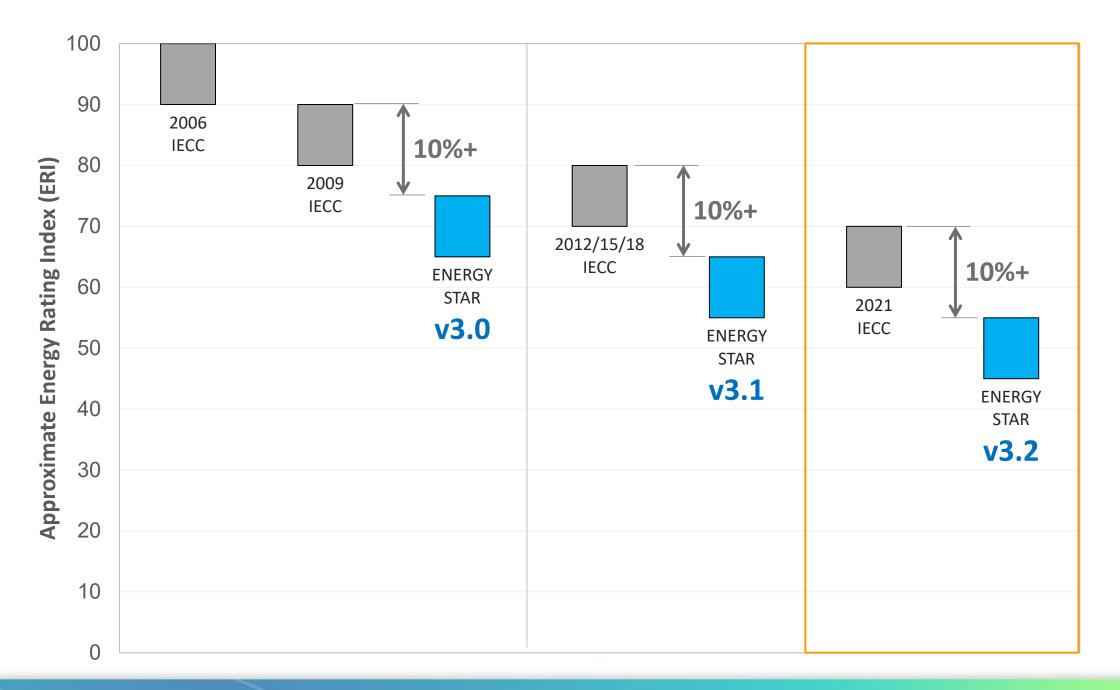
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Definition of Version 3.2 and Version 1.2

(SFNH v3.2 & MFNC v1.2)



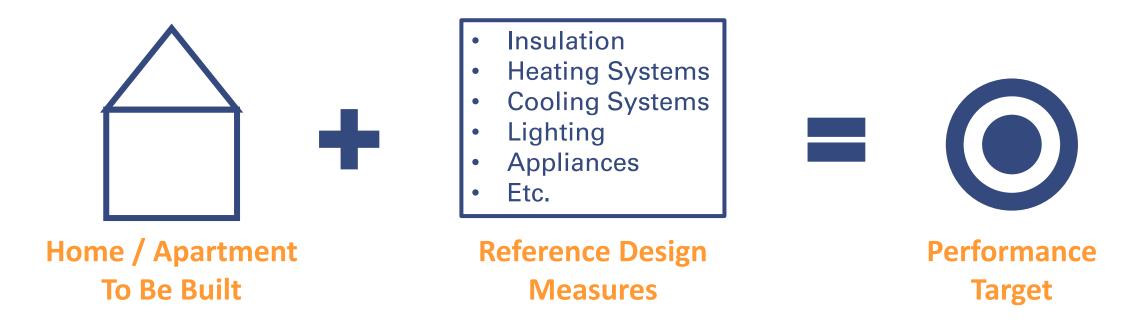
Modern code evolution





Process for developing new Versions

Performance target determined by defining a 'Reference Design.'



- Iterative energy modeling used to identify a package of measures that:
 - Generate at least 10% savings
 - Are practical for a builder to incorporate



What are we proposing?

New Versions of the ENERGY STAR program requirements to be implemented in states that adopt the 2021 IECC or equivalent; implementation date one year after enforcement of new state code.

ENERGY STAR Single-Family New Homes – National Version 3.2

• The only differences between National v3.1 and v3.2 are a more stringent ERI target (~50-55) and a new thermal backstop. No other changes.

ENERGY STAR Multifamily New Construction – National Version 1.2

- Again, more stringent ERI target and a new thermal backstop.
- In common spaces for the ERI Path, or in all spaces for the Prescriptive Path, higher efficiencies for central/commercial systems.
- ASHRAE Path performance target based on ASHRAE 90.1-2019.



#3

Introduction of a New Certification Program



Asa Foss

Program Development Manager



Program Vision

To help decarbonize the residential sector, we are proposing to introduce a new whole-house certification program, above and beyond the ENERGY STAR new construction programs, to inspire the industry and demonstrate that it is possible to build the homes we need for tomorrow, today.

- This new program is an opportunity to:
 - Provide recognition for decarbonized homes & the builders that construct them
 - Create a national platform for training, tools, & support for decarbonization in homes
 - Provide state & local policymakers with a national reference for emerging policies
 - Provide a basis for incentives as utilities begin to develop more sophisticated residential demand response programs
 - Offer a new opportunity for builders to demonstrate progress towards their environmental, social, and governance (ESG) goals



Proposed Requirements for the New Certification Program

- 1. Highly energy-efficient construction (ENERGY STAR v3.2/v1.2)
- 2. Multi-stage ENERGY STAR certified connected heat pump
- 3. ENERGY STAR certified connected heat pump water heater
- 4. Induction cooktop and electric oven
- 5. Electric vehicle charging capability



Rater Field Checklist



ENERGY STAR New Whole-House Certification Program National Rater Field Checklist, Public Comment Draft

Home/Building Address:	ing Address: State: F		Permit Date:			
1. ENERGY STAR Certification Baseline				Must Correct	Rater Verified	N/A
1.1 Home or building certi California Projects Only:	fied under one of the following ENERGY Single Family New Homes (SFNH) □ SFNH National Version 3.2 □ SFNH California Version 3.3	STAR New Construction programs <u>Multifamily New Construction</u> ☐ MFNC National Version 1. ☐ MFNC California Version 1	(MFNC) 2			,
2. Dwelling Unit Space Heating						
ENERGY STAR certified two-speed or variable-speed heat pump(s) installed and sized in accordance with the HVAC Design Report						-
2.1.1 Blower fan volumetric airflow, blower fan watt draw, and refrigerant charge are Grade I per ANSI / RESNET / ACCA Std. 310						
2.1.2 In CZ 5-8, installed heat pumps are ENERGY STAR Cold Climate certified						
2.2 Each heat pump meets EPA's 'connected' criteria or is controlled by an ENERGY STAR certified smart thermostat						•
3. Dwelling Unit Water Heating						
3.1 ENERGY STAR certifi	ied heat pump water heater that meets El	PA's 'connected' criteria is installed				
3.2 Each heat pump water Bedrooms: Minimum Tank Capa	r heater is 240 volts, with minimum tank of 1 2 3 city: 40 50 65	capacity as follows: 4+ 80				
3.3 Each heat pump water heater located within occupiable space has a sone rating ≤ 55 dBA						
4. Cooking						
4.1 Cooktops and range elements/burners use induction technology, and ovens are electric						
5. Electric Vehicle Charging Infrastructure - For one and two-family dwellings with a private driveway or garage, comply with Item 5.1 For all other dwellings and dwelling units, comply with either Item 5.1 or 5.2						
5.1 EV-Ready: One parkir	ng space is provided per dwelling unit that	t includes all of the items below:		-	-	
5.1.1 A powered 208/240 receptacle is installed in garage or within 3 feet of driveway or dedicated parking space						1
5.1.2 The electric service panel includes a 40-amp breaker and panel directory identifies the branch circuit as "Electric vehicle charging"						1
5.2 EV-Chargers and EV-Capable parking spaces are installed, including alLof the items below:				-	-	
	stall (at a minimum) the following number ed' criteria as follows: es: 1-10 spaces 11-20 spaces 2 1 2	r of ENERGY STAR certified EV-Ch 21-30 spaces 31-40 spaces 3 4	argers that meet 41+ spaces 5			,
5.2.2 <u>EV-Capable</u> : Conduit is installed that runs continuously from the electrical panel to a junction box that terminates within 3 feet of at least 20% of the development's parking spaces						-
Rater Name: Rater Inspection Date: Rater Initials:						



Next Steps and Timeline

Stakeholder feedback

Final specification release (Expected: Q1 2022)

Full deployment (Expected: January 1, 2023)

- Branding
- Supplemental Materials
- Training



Upcoming Partner Meeting Webinar Series Sessions

• **ENERGY STAR Marketing & Communications**

Thursday, September 23, 2021

• Raising the Bar: Advancing the Versions of ENERGY STAR Residential New Construction

Monday, September 27, 2021

ENERGY STAR: The Decade Ahead Starts Now

Wednesday, September 29, 2021

A New Day for Building ENERGY STAR

Thursday, September 30, 2021

Office Hours

Tuesday, October 5, 2021

DOE Zero Energy Ready Homes and the Year Ahead

Thursday, October 7, 2021 (DOE presenting)





