





For more than 20 years, EPA's ENERGY STAR program has identified the most energy efficient products, buildings, plants, and new homes – all based on the latest government-backed standards and a rigorous third-party certification process.











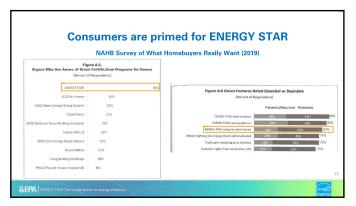






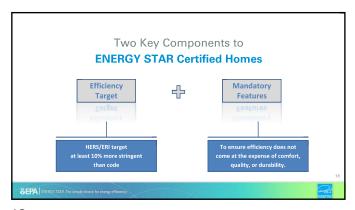




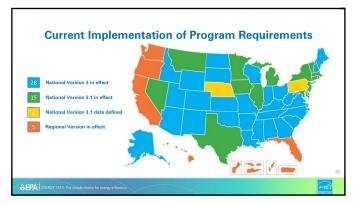


Participation in Pennsylvania Over 25,000 homes certified to date. Close to 1,250 homes certified last year alone. Over 100 partners are participating in the program. Small sample of builders/developers: Avalon Bay Commodore Homes Common Ground NVR-Ryan K. Hovnanian Habitat for Humanity Colony Factory Crafted Homes Tern Construction & Development Pleasant Valley Modular Homes Blue Rock Construction, LLC

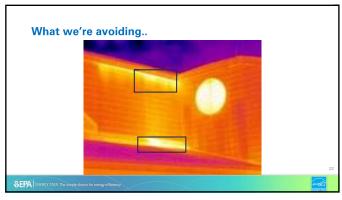




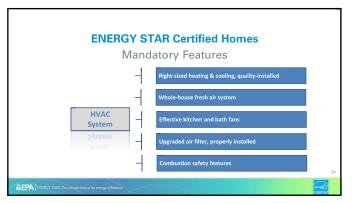












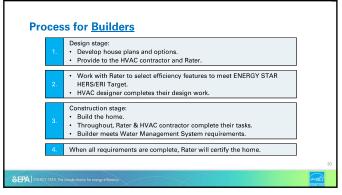




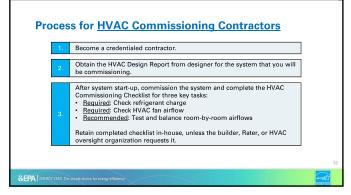


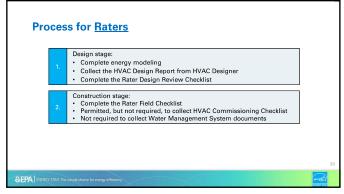






1.	Obtain plan, options, and efficiency features from builder or Rater.	
2.	Decide whether to do a site-specific design or group design.	
3.	Design the ventilation system, Perform room-by-room load calculations, Select the equipment, and, Design the duct system.	
4.	Complete the HVAC Design Report for each system design. Provide it to the builder or HVAC contractor, and to the Rater, once per system design.	
		31
SEPA ENERGY STAR, The	s simple choice for energy efficiency	COSTOC COUR





Value for builders Greater quality and process control. Reduced costs from warranty issues & customer complaints. Maximum value for money invested.

34

Value for HVAC professionals Reduced callbacks for comfort issues. Justification to invest in higher-value products and services. **SEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).** **CEPA | Intalic (1988 | The inspire chance for every efficiency).**

35



Incremental cost from code to ENERGY STAR • Full incremental cost from baseline code: - Version 3: - \$2,000 - Version 3.1: -\$1,100 • However, most ENERGY STAR builders aren't starting from baseline code. • Incremental cost from typical construction practices of our builders: ~\$350-500.

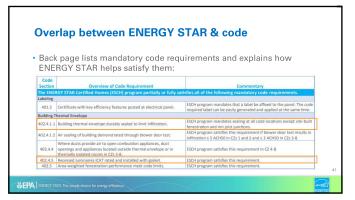
37



38

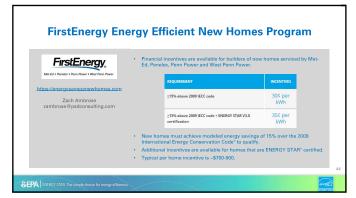
Overlap between ENERGY STAR & code • Factsheets available at: www.energystar.gov/newhomesguidance • One page front and back • Created for: - Version 3 vs the 2009 IECC • Version 3.1 vs the 2012 IECC • Version 3.1 vs the 2015 IECC

Overlap between ENERGY STAR & code • Front page: — What is an ENERGY STAR Certified Home? — How does ENERGY STAR intersect with code? — How can a Code Official use this information? Zo15 IECC states that "the code official, shall be permitted to deem a national, energy efficiency program to exceed the energy efficiency required by this code. Buildings approved in writing by such an energy efficiency program shall be considered in compliance with this code. The requirements identified as 'mandatory' in Ch. 4 shall be met."

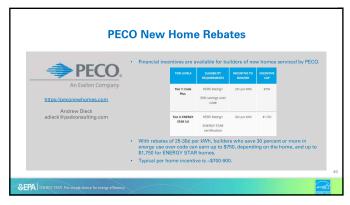




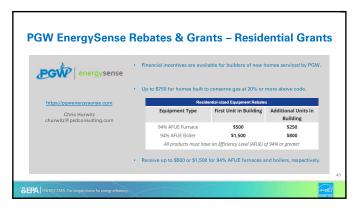


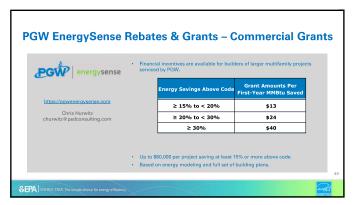




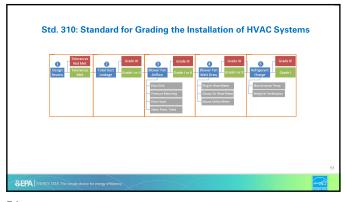














Key Benefits of HVAC Grading Path Does not require use of credentialed contractor. Rewards properly installed HVAC equipment with ERI / HERS points. Integrates most ENERGY STAR HVAC requirements into a standard rating.



How to G	et Started						
1. Find a rate	er at: <u>www.energystar.</u>	go	v/p	artner	locate	<u>or</u>	
	New Homes Partners and Incentives in Pe	nnsy	Ivania				
	Program Indication in Principles Community of International Assessment (Community of International Assessment (Community of International Assessment (Community of International Assessment (Community of International Community of Internat						
	Back to National Search				▼ Expand Al	Collapse All	
	Find Builders in Pennsylvania Find Incentives in Pennsylvania						
	▼Find Raters Serving Pennsylvania						
	Time		Frederic Steet 1	Homes Cortified Age 2015 - Mar 9830*	Hones Certified State Tela?	Homes Certified Grand Total	
	CLEASured, New England SS-35-500 (Mrs. Content)	0	1996	34	7	22,744	
	MaGrann Associates 554-723-919 Abenton-Gethelmen Eastor, Eric, New York Hewark-Jensey City, Philadelphia-Camden- Viterminis Philadelphia	0	1966	591	2,290	51,637	
	Energy Services Group 303:334-650 Philodephia Camdeo Wilmington, York Hanover	5	1967	484	1,67	29,558	
SEPA ENERGY STAR. The simple ch	pice for energy efficiency.						empli

How to Get Started	
Work with Rater to model your homes to see how close you are to hitting the ENERGY STAR HERS / ERI target and if you're already including some of the big mandatory features:	
A. Whole-home fresh air system	
B. Kitchen exhaust to the outside	
c. Total duct leakage testing	
D. Any type of HVAC design review and/or install commissioning	
E. ≥70 CFM rated bath fans in full baths (to achieve ≥50 CFM in field)	
F. Bedroom pressure balancing	56
SEPA ENERGY STAR. The Simple choice for energy efficiency.	antile.

How to Get Started 3. Review all partnership requirements and complete the partnership agreement at: www.energystar.gov/partner resources/residential new/working





