

EXPANDING THE TOOLBOX

STRATEGIES FOR SUCCESSFUL RATERS

Neil Grigsby, NEEA | October 16, 2013







WHO IS NEEA?

Northwest Energy Efficiency Alliance (NEEA) is a non-profit org. using the market power of the region to accelerate the innovation and adoption of energy-efficient products, services and practices.

NEEA is supported by & collaborates with the Bonneville Power Administration, Energy Trust of Oregon and 100+ Northwest utilities.



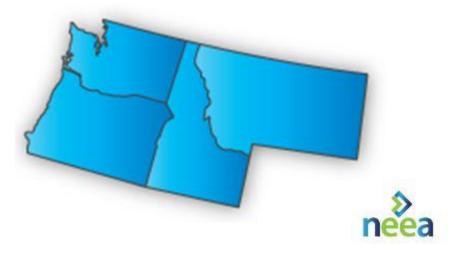


PROGRAM GOAL

Drive market adoption of energyefficient homes in new construction.

MARKET SNAPSHOT

- 22,000 Certified single-family homes since 2005
- 1,020 Multifamily homes
- **161** Builders
- **37** Rating organizations





PROGRAM PROGRESSION

2008

Recruit & train verifiers

that can drive the program forward

2013

Transition phase;

hand-off components of NW program to market

2005

Develop infrastructure;

develop custom spec for achieving savings

2010

Educate consumers

& generate demand; ramp-up for v3 2012 Develop training & marketing tools for partners





WHAT WE'RE UP AGAINST

- Lack of incentives for builders
- Code & technical requirements more stringent in NW
- Inadequate recouped cost for upgrades
- Version 3, particularly HVAC
- Decrease in builder participation
- Transition to new data tracking system
- Provider model shifting to open market
- Transition to Performance Path model





MARKET TRANSFORMATION

As NEEA looks forward to advanced building products and practices that will help shape the industry 10+ years from now, it is **handing off greater responsibility for the success and continued implementation of ENERGY STAR** to its Verifiers and Raters, including:

- Technical support
- Market development
- Training





ALIGNMENT WITH NATIONAL PROGRAM MODEL

- Open-market Providers under RESNET purview
- Online Partner Agreements signed with EPA
- Access to EPA resources

Committed to Building 100% ENERGY STAR





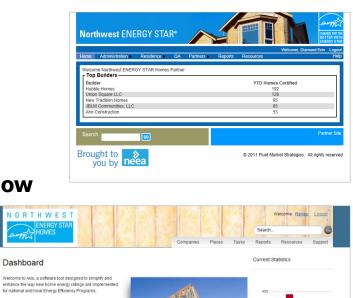
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DATABASE TRANSITION

Adapted to better support:

- V3 requirements
- More granular data
- Evolving technologies
- **Open-market Providership**



Site News:

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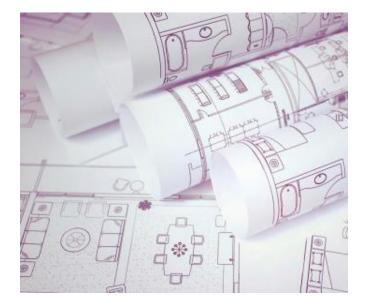
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07/18/13 No Geocoding Matches - What gives! Central to Axis is the ability to peocode a location. The geocoding process involves taking an address (or an intersection) you entered and feeding that to a number of GIS (Geographic Information Services)... Read More... 09/12/13 New Release 2.0.13 A new release of the Axis user interface has been released with some important changes which may affect you... Read Certification Stats More... 1 Messages YTD Certifications 246 MTD Certifications Show 25 💌 entries Last Month Certifications 131 Search: Clear Last Year Certifications Message d Level Mark as Read Created Jonathan Jones has updated the Sustainable Homes Info Read Latest Homes Consulting, LLC profile. View current profile 1119 Maple St. #123. (Lot 123) Showing 1 to 1 of 1 entries Eirst Previous 1 Next Last · 1110 Maple St. #133, (Lot 133) Copy 👔 CSV 🐩 Excel 🐩 PDF 党 Print 🚔 520 Chestnut St. 142, (Lot: 142) 1210 Maple St. #122 (Lot: 122) 1210 Maple St. #121, (Lot: 121) • 1210 Maple St. #120. (Lot: 120) 1210 Maple St. #119. (Lot 119) • 1210 Maple St. #118, (Lot. 118)



TRANSITION TO NORTHWEST PERFORMANCE PATH

- Relieves the administrative burden of trade-offs, code changes
- Increases builder flexibility
- Provides validated energy savings







NORTHWEST REM/RATETM

The problem:

- The Regional Technical Forum (RTF) won't accept savings on HERS Scores
- They use a tool they feel is more accurate to our climate & region

The solution:

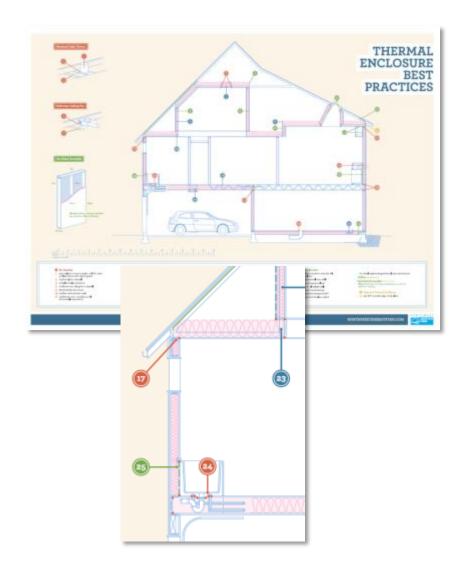
■ Northwest REM/*Rate*[™] can produce equivalent results





THERMAL ENCLOSURE BEST PRACTICES POSTER

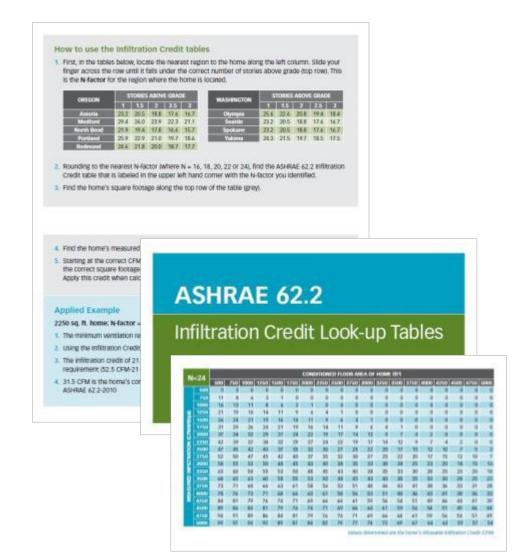
A weatherproof construction site poster that details thermal enclosure best practices for meeting the program checklists and ensuring a tight envelope.





ASHRAE WALLET CARDS

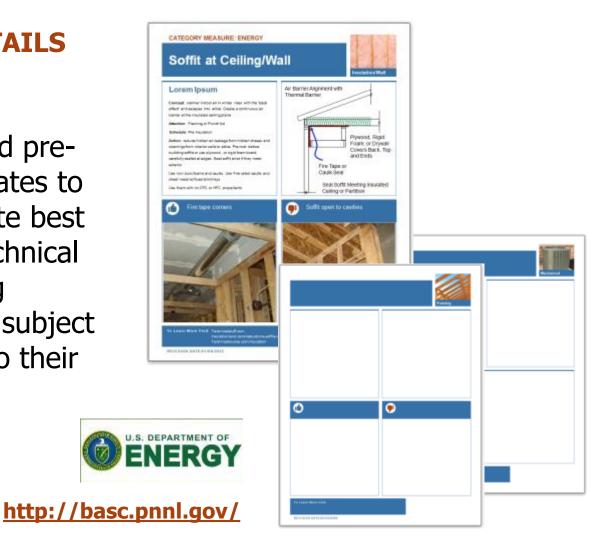
The fold-up infiltration credit look-up table is an HVAC contractor tool that eliminates the need for complex formulas or use of bulky manuals in the field.





TECHNICAL DETAILS TEMPLATES

Customizable and preformatted templates to help Raters create best practices and technical tools, positioning themselves as a subject matter experts to their builders.





FREQUENTLY ASKED QUESTIONS RESOURCE GUIDE

A quick-reference guide for common technical questions in the NW. Developed to reduce program calls for tech support and put answers in the hands of Raters.

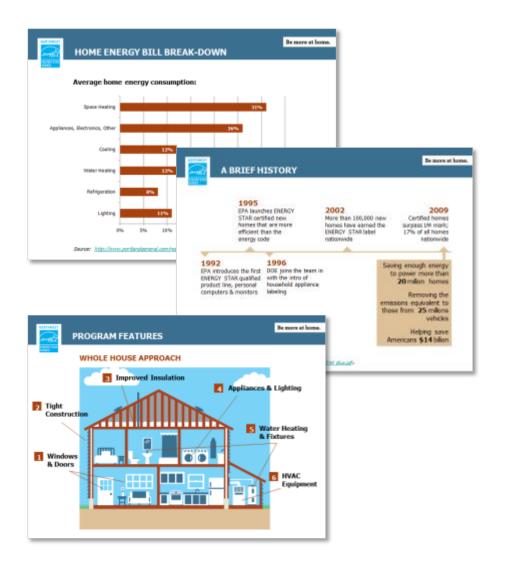
Northwest ENERGY STAR® Homes FREQUENTLY ASKED QUESTIONS CLICK & TOPIC BELOW TO GET STARTED. WATER MANAGEMENT CHECKLIST HVAC, VERIFIER/RATER & CONTRA FRAMING & INSULATION DETAILS MULTIFAMILY BOP WATER MANAGEMENT CHECKLIST MEASUREMENT & VERIFICATION GENERAL QUESTIONS 1] Line item 1.2 of the Water Hanagement Checklist requires that backfill has been tamped and final grade is sloped 2.0.5 inches/loot for 10 font. This requirement can be difficult to result for in-fill hones. If a builder fiels that they can meet the intent of this recasser - presumably to seard water collection around the foundation - can they sign off an this line item without meeting the exact slape requirements? As long as the builder is confident that the design and final grading around the horse will avoid water intrusce to both the home being built and any neighboring homes, the Hortkeest DHLRDY STAR Homes program will allow the builder to fill out the checklast item requirement. When the area around the stdex of a home is less than 10 feet, ensuring adequate slope away from the humar's foundation is of primary concern. If less than 1.0 feet, a bio availe, French drain or similar measure may be required to carro water awas from the Install 2) Line item 1.6 prohibits the use of a class 2 super retarder on the inside of below-grade walk but my building orders inspector disagrees because the exposed Elemon insulation has potential t enter the HEAC system. Does the building code sverride Northwest UNUSLY STAR Humes Yes, Mate and local codes take prevedence over floathwest SNURCH S180 House program recurrented HVAC, VERIFIER/RATER & CONTRACTOR CHECKLISTS 1) Are dust mass in a floor casity insated above a garage considered to be inside the canditioned space? Duct rule passing through a cargon from it will be considered made the conditioned space if the following specifications are met Manager Irons death of 14 pulses" Only ducts delivering air to the conditioned space above the garage are allowed in the floer Haviment of two registers to the living spece above the garage Managers 3 such dassetter cluster Ducts must be in direct contact with autificor, sociapt where truss members interfare that's must be permanently supported with strapping at a minimum of every 2 feet Ducks must be pulled light in seduce patential restriction Exterior hand joint recet be realed FG that insulation is not allowed. However manufactor is required for the entire floor system Hast pass the Regional Technical Porces (RTP) and of 4007H to the exterior test *12 tech flaor trasses can be used, but a minimum of 8-29 insulation must be contained underneath file duct rare regardless of trues size 2) What are the spat condition requirements for laws located in an ENERGY STAR condition hume? The Northwest DIERCY STAR Homes program requires that all spot ventilation fana used within the home be ENERGY STAR rated with the following sound and flow rates: requirements: Batherson eshauat fana located in full hathersons shall be rated at 80CPH, 2 sones or less

MARKET DEVELOPMENT TOOLS



NORTHWEST ENERGY STAR HOMES 101

A presentation deck developed to help Raters explain and sell the Northwest program to prospective builders.





PROGRAM TECHNICAL OVERVIEW

Illustrates program technical requirements and the house-as-asystem approach.



DUCTLESS HEAT PUMPS

Benefits to builders, and homeowners, for going ductless in new residential construction.



MULTIFAMILY SPECIFICATION

To help recruit low-rise multifamily builders/developers to join the program.



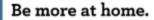


CUSTOMIZABLE MARKETING TOOLS

Sales collateral, advertising templates & messaging



TRAINING SUPPORT





TRAINING SUPPORT

VERIFIER BOOT CAMP







TRAINING SUPPORT

BUSINESS DEVELOPMENT TRAINING

- One-on-one support for Rater organizations
- Tailored to their needs, including:
 - Sales, marketing
 - Business development
 - Builder recruitment







TRAINING SUPPORT

HVAC QUALIFICATION TRAINING

- NEEA acts as NW H-QUITO
- Thorough qualification process:
 - $\circ~$ Orientation webinar, quiz
 - o 6-hr classroom training
 - Zonal-only training
 - Option to test out of classroom portion
- 5% field QA





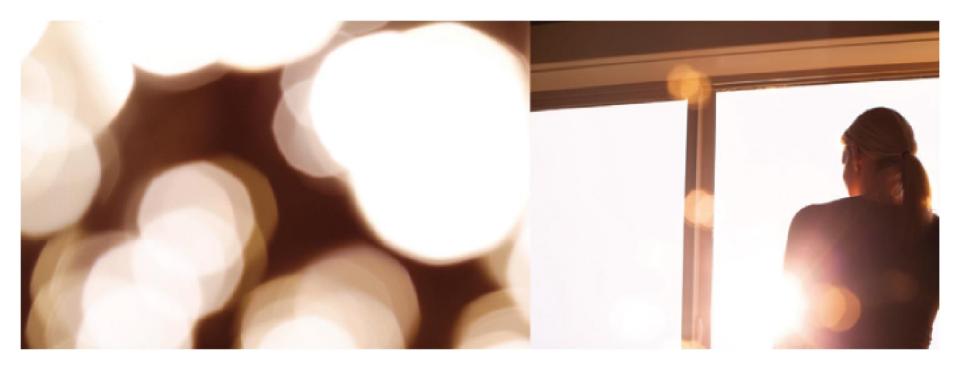


IN HINDSIGHT

WHAT WE LEARNED

- There's no one-size fits all. Rater skill sets vary by organization and no one tool fits every need.
- One-on-one support still rules. You can't replace it, but you can reduce or complement it.
- Pick your battles. You can't hand-off the program to the market and maintain control at the same time.





THANK YOU!

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