



Setting the Standards for
Home Energy Efficiency

RESNET 101
What is RESNET and the HERS Index?
A Primer for Beginners

Daran Wastchak
D.R. Wastchak, LLC
February 29, 2016



Presentation Topics

- ✓ Introduction to RESNET
- ✓ What is RESNET's mission
- ✓ Who is "RESNET" and how the organization operates
- ✓ Overview of the HERS Index
- ✓ Lots of Q & A along the way...

RESNET 101 - What is RESNET and the HERS Index?
A Primer for Beginners



Miss-information

“Does RESNET really mean ENERGY STAR?”

“Is REM/Rate RESNET’s software?”

“What is the difference between RESNET and RESCheck?”

*RESNET 101 - What is RESNET and the HERS Index?
A Primer for Beginners*



Introduction to RESNET

- ✓ Residential Energy Services Network (RESNET)
- ✓ 501c3 Non-profit organization
- ✓ Founded in 1995 by the National Association of State Energy Officials and Energy Rated Homes of America



- ✓ Original mission: Develop a national market for Home Energy Rating Systems (HERS) and energy efficient mortgages
- ✓ Updated mission (2012): Build and maintain, in collaboration with industry partners, a credible and reliable marketplace infrastructure that significantly improves the energy performance of all buildings.



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A Primer for Beginners*



RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

Home Energy Efficiency | Financial Benefits | Ratings & Audits | Use a RESNET Professional | About RESNET | Contact Us

Home Energy Efficiency

Lower Your Costs

32% Lower Mortgage Default Costs

Learn More

Learn About the HERS® Index

Find a Local RESNET Professional Near You

Increase home comfort while saving energy and money when you work with a certified RESNET Professional.

Find a Professional Now

54 65 73

The HERS Index

Find out what it is, how it works and why it's important to you.

Learn More

Looking for a HERS rated home?

Find out if a home has been HERS-rated and what its score is.

Search Now

www.resnet.us

RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

CERTIFIED ENERGY AUDITORS/RATERS AND QUALIFIED CONTRACTORS/BUILDERS

SEARCH | ABOUT US | CONTACT US | PRIVACY POLICY | USER AGREEMENT | LOGIN

ARE YOU A HOMEOWNER?
ESR1001_Homeowner_0116

Home | Rater/Auditor Information | Contractor Information | Builder Information | Financial Information | Quality Assurance | RESNET Standards | RESNET Conference | Partners | Resources

All Under One Roof

Contractors
Raters and Auditors
Builders

Join RESNET Today

JOIN NOW

Already a MEMBER?
LOGIN HERE

STAY CONNECTED

Join Us on Facebook
Follow Us on Twitter
Connect With Us on LinkedIn

20 YEARS OF SUCCESS

Setting the Standards for Quality 1996 - 2016

ENERGY AUDITORS & RATERS

- Rater/Auditor Information
- RESNET Training
- What and How to Become a Certified HERS Rater
- Membership Benefits for Raters & Auditors

SIGN UP TODAY!
Promote Your Business

CONTRACTORS & BUILDERS

- Why You Need to Be EnergySmart
- Membership Benefits for Contractors
- Training & Testing for Contractors
- QuickStart Guide

SIGN UP TODAY!
Promote Your Business

RATING & TRAINING PROVIDERS

- Provider Information
- How to Become an Accredited Rating Provider
- National Home Energy Rating Standards
- RESNET Accredited Programs

STAY INFORMED

- RESBlog - News for Industry Pros
- RESNET Conference
- Facebook - Become a Fan of RESNET

www.resnet.us/professional



Learn About the HERS Index



Looking for a HERS Rated Home?

Find out if a home has been HERS-rated and what its score is.



SEARCH NOW

www.hersindex.com

National Buildings Registry

Buildings Registry Admin Steve Washburn

Provider
 User Name
 Password
 Manage Users
 Manage Roles
 Change Password
 Provider Control Panel

Provider Control Panel

Effective August 1, 2011, all Rating Providers must manage their Raters and Rater Candidates in the Registry. Effective June 15, 2012, all completed ratings must be updated to the Registry using RESNET-accredited Rating Software. Please refer to the RESNET Buildings Registry Guide for more information.
All 2013 provider renewals should have been submitted by October 31st, 2014.
Deadline 12/31/2014: Raters & RAs must pass CAZ tests or risk administrative suspension.

J.B. Washburn, LLC (4106 1100-000)	Provider Profile
<input type="checkbox"/> Manage Raters & Candidates	J.B. Washburn, LLC 4106 1100-000 Tulsa, OK Phone: 918-438-1100 Fax: 918-438-1101 www.jbwashburn.com
<input type="checkbox"/> Manage Ratings (2014)	
<input type="checkbox"/> Manage Raters (2014)	
<input type="checkbox"/> View Performance Reports	
<input type="checkbox"/> Manage Rating Field (Candidate) (2014)	
<input type="checkbox"/> Export 2014 Q4 Renewals	
<input type="checkbox"/> Renewals (Custom) Q4 Renewals Report	

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A Primer for Beginners



2016 Conference
Scottsdale, AZ
Feb 29 - Mar 2



RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

LEARN ABOUT HERS® | ASK AN EXPERT | RESNET PROFESSIONALS | Search...

Home Energy Efficiency | Financial Benefits | Ratings & Audits | **Use a RESNET Professional** | About RESNET | Contact

1,735,669 Homes Rated Nationally

Search for a HERS-rated home now!

Looking for a HERS Rated Home?
Homes with HERS Index scores are more energy efficient, resulting in lower energy bills and higher home comfort. To find out if a home has been HERS-rated, enter its full address in fields below.

Street Address * City
 Enter Street Address Enter City Name
 State * Zip Code
 Select a State Enter Zip Code **Find**

*required field

Find a Local RESNET Professional Near You

www.resnet.us/public-access-to-resnet-national-registry

"HERS Index" or "HERS Score"

"HERS Index" or "HERS Score" allows for uniform estimation of a home's energy consumption (similar to Miles Per Gallon (MPG) on a vehicle)



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"HERS Index" or "HERS Score"

U.S. DEPARTMENT OF ENERGY

CHALLENGE HOME

The Symbol of Excellence for Peak Performance

Your home was designed, engineered, and constructed in conformance with U.S. Department of Energy (DOE) guidelines for extraordinary levels of excellence and quality.

This home built at **[INSERT ADDRESS]** by **[INSERT BUILDER]** has been verified by **[INSERT CERTIFIED RATER]**, an independent professional or organization to meet or exceed strict energy efficiency guidelines set by the U.S. Department of Energy on **[INSERT DATE]**.

This home meets or exceeds the minimum criteria for the following:

- DOE Challenge Home
- ETIA ENERGY STAR Version 3 Home
- [INSERT OTHERS AS VERIFIED]**
- EPA Indoor Air Plus
- EPA WaterSense
- IRS Fortified for Solar Living
- DOE Challenge Home Quality Program

HERS Index

100 = Most Energy

0 = Least Energy

This home's HERS Index is 65

www.eere.energy.gov/buildings/challenge

U.S. DEPARTMENT OF ENERGY
Energy Efficiency & Renewable Energy

Sam Raschke, Chief Architect
Building Technologies
U.S. Department of Energy

ENERGY STAR QUALIFIED HOME

Builder Name: Granite Builders
Project Completion: 4 July 2011
Home Address: 1315 S Street, Washington, DC 20005

Rating Company: D Force Testing
Rating Identification Number: 234675
Rating Date: 6 July 2011
Version: 1.0

Standard Features of an ENERGY STAR Home Information

Your ENERGY STAR qualified home has been inspected, operational and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

- Thermal Envelope System**
A complete thermal envelope system that includes insulation on walls and ceiling, energy-efficient windows, doors, and doors, and weatherstripping on other openings, and airtightness.
- Water Management System**
A comprehensive water and moisture management package to protect roofs, walls, and foundations.
- Energy Efficient Lighting and Appliances**
Energy-efficient products that reduce utility bills while providing high quality performance.

HERS Index

100 = Most Energy
0 = Least Energy

18 operational hours, 10 p.m. to 6 a.m. local time. Air conditioning systems are not required to be operational during these hours.

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Scottsdale, AZ
Feb 29 - Mar 2

"HERS Index" or "HERS Score"

\$104

Resident Savings on Lighting

3 Area LED's in Bath, 2 in Bed

HOME PERFORMANCE INC.

KB 82

18% Savings

48% Savings

Green

Plan 2144

EXCEEDS THE ENERGY STAR Guidelines

ENERGY CONSERVATION SCALE

100 140 180 220 260 300 340 380 420 460 500 540 580 620 660 700 740 780 820 860 900 940 980 1000

Meritage Homes

YES, IT'S INCLUDED!
HOME ENERGY RATING SCALE

YOUR LENNAR HOME 48

ANNUAL SAVINGS \$500

Community Name • Plan Name

LENNAR

Home Energy Rating Scale

Community Name: Model Name:

Estimated annual energy usage:

- Electric (kWh) Range: 18-23
- Natural Gas (therms): 188-231
- CO₂ emissions (tons): 4.78

RESNET
Residential Energy Services Network

Pulte

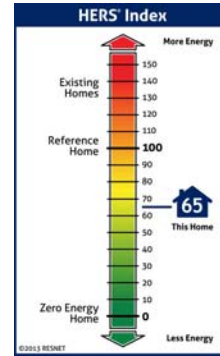
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"HERS Index" or "HERS Score"

IECC 2015.....

Climate Zone	Energy Rating Index
1	52
2	52
3	51
4	54
5	55
6	54
7	53
8	53



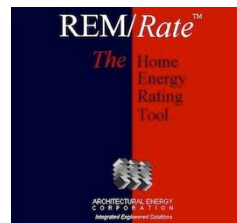
- Adopted by ICC on October 7, 2013
- ERI – Energy Rating Index

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RESNET Accredited HERS Software

RESNET Accredited HERS Software Programs	
Accredited Rating Provider:	NATIONAL REGISTRY OF ACCREDITED RATING SOFTWARE PROGRAMS
Accredited HERS Provider:	The following is a listing of energy rating software programs that have been accredited by RESNET.
Accredited Rating Sampling Providers:	IEF International Bureau Residential Version 2.00.0
Accredited Rater Training Providers:	530 Center Road Suite 500 Rockville, MD 20850 Phone: 301-487-8554 Email: info@ieff.com
Accredited RESNET Green Rater Training Providers:	YieldPoint 10000 E. 1st Ave. Denver, CO 80231 Phone: 303-750-1200 Contact: David Hageman Date of Expiration: December 31, 2016
Accredited HERS Software Tools:	
Accredited Test Credits Compliance Software Tools:	Electrolog Electrolog, HERS module v2.0 93 Congress St. Suite 1025 Boston, MA 02108 Phone: 617-451-8943
Accredited IECC Performance Verification Software Tools:	Mediam, v4.0.0 16750 E. 1st Ave. Denver, CO 80231 Phone: 303-750-1200 Contact: David Hageman, Director of Engineering Date of Expiration: December 31, 2016
Approved WaterSense Providers:	
Approved Online Home Energy Service Programs:	EnergyGauge® v5.0A Version 5.0
Approved Contractor Education and Qualification (CEQ) Providers:	Florida Solar Energy Center 1679 Clearlake Road Gaines, FL 32602-8702 Phone: 352-338-1437 Fax: 352-338-1010 Email: info@fsec.ucf.edu Website: www.fsec.ucf.edu Contact: Tom Furlong Accreditation Identification Number: 2009-001 Date of Expiration: December 31, 2016
RESNET v14.4.1 (IECC) v14.4.1	2540 Frontalar Avenue Suite 100 Boulder, CO 80501 Phone: 303-439-7414 Email: info@resnet.org Website: www.resnet.org Contact: Brian Christensen Accreditation Identification Number: 2009-002 Date of Expiration: December 31, 2016



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"Typical" Older Home



Home Energy Rating Certificate

Plan 230 - 1990 Spec
Peoria, AZ



3 Stars Plus
Based On Plans

Uniform Energy Rating System					Energy Efficient				
1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
520-401	400-301	300-251	250-201	200-151	150-101	100-91	90-80	85-71	70 or Less

HERS Index: 141

General Information	
Conditioned Area: 3240 sq. ft.	House Type: Single-family detached
Conditioned Volume: 24558 cubic ft.	Foundation: Slab
Bedrooms: 4	

Mechanical Systems Features	
Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.	
Heating: Fuel-fired air distribution, Natural gas, 80.0 AFUE.	
Cooling: Air conditioner, Electric, 10.0 SEER.	
Duct Leakage to Outside: 389.00 CFM.	
Ventilation System: None	
Programmable Thermostat: Heating: No Cooling: No	

Building Shell Features	
Ceiling Flat: R-30	Exposed Floor: NA
Vaulted Ceiling: NA	Window Type: Single - Metal
Above Grade Walls: R-17, U-0.103	Infiltration: NA
Foundation Walls: NA	Rate: Htg: 8049 Cfg: 8049 CFM50
Slab: R-0.0 Edge, R-0.0 Under	Method: Blower door test

Lights and Appliance Features	
Percent Fluorescent Pin-Based: 0.00	Clothes Dryer Fuel: Electric
Percent Fluorescent CFL: 0.00	Range/Oven Fuel: Electric
Refrigerator (kWh/yr): 775.00	Ceiling Fan (cfm/Watt): 0.00
Dishwasher Energy Factor: 0.48	

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.
REMRate - Residential Energy Analysis and Rating Software v12.91
 This information does not constitute any warranty of energy cost or savings.
 © 1995-2011 Architectural Energy Corporation, Boulder, Colorado.

Rating Number: 2011-02-19-04
 Certified Energy Rater: Daniel Carpenter (TS)
 Rating Date: February 19, 2011
 Rating Ordered For: T.W. Lewis

Estimated Annual Energy Cost			
Based On Plans			
Use	MMBtu	Cost	Percent
Heating	44.9	\$570	12%
Cooling	55.7	\$2500	51%
Hot Water	19.8	\$238	5%
Lights/Appliances	36.6	\$1329	27%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$231	5%
Total		\$4865	100%

This home meets or exceeds the minimum criteria for all of the following:

TITLE
 D.R. Wastchak, LLC
 40 West Baseline Road, #102
 Tempe, Arizona 85283
 (480) 350-6274
 (480) 350-6275
 www.drwastchak.com



"Typical" Energy Efficient Home



Home Energy Rating Certificate

Plan 230 - As-Design
Peoria, AZ



5 Stars Plus
Based On Plans

Uniform Energy Rating System					Energy Efficient				
1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-80	85-71	70 or Less

HERS Index: 66

General Information	
Conditioned Area: 3240 sq. ft.	House Type: Single-family detached
Conditioned Volume: 37768 cubic ft.	Foundation: Slab
Bedrooms: 4	

Mechanical Systems Features	
Heating: Fuel-fired air distribution, Natural gas, 92.0 AFUE.	
Cooling: Air conditioner, Electric, 13.0 SEER.	
Water Heating: Conventional, Natural gas, 0.62 EF, 50.0 Gal.	
Duct Leakage to Outside: 130.00 CFM.	
Ventilation System: Supply Only: 70 cfm, 28.0 watts.	
Programmable Thermostat: Heating: Yes Cooling: Yes	

Building Shell Features	
Ceiling Flat: NA	Exposed Floor: NA
Vaulted Ceiling: R-19	Window Type: U=34 SHGC=23
Above Grade Walls: R-26, U-0.050	Infiltration: NA
Foundation Walls: NA	Rate: Htg: 3563 Cfg: 3563 CFM50
Slab: R-0.0 Edge, R-0.0 Under	Method: Blower door test

Lights and Appliance Features	
Percent Fluorescent Pin-Based: 10.00	Clothes Dryer Fuel: Electric
Percent Fluorescent CFL: 0.00	Range/Oven Fuel: Electric
Refrigerator (kWh/yr): 775.00	Ceiling Fan (cfm/Watt): 0.00
Dishwasher Energy Factor: 0.69	

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.
REMRate - Residential Energy Analysis and Rating Software v12.93
 This information does not constitute any warranty of energy cost or savings.
 © 1995-2011 Architectural Energy Corporation, Boulder, Colorado.

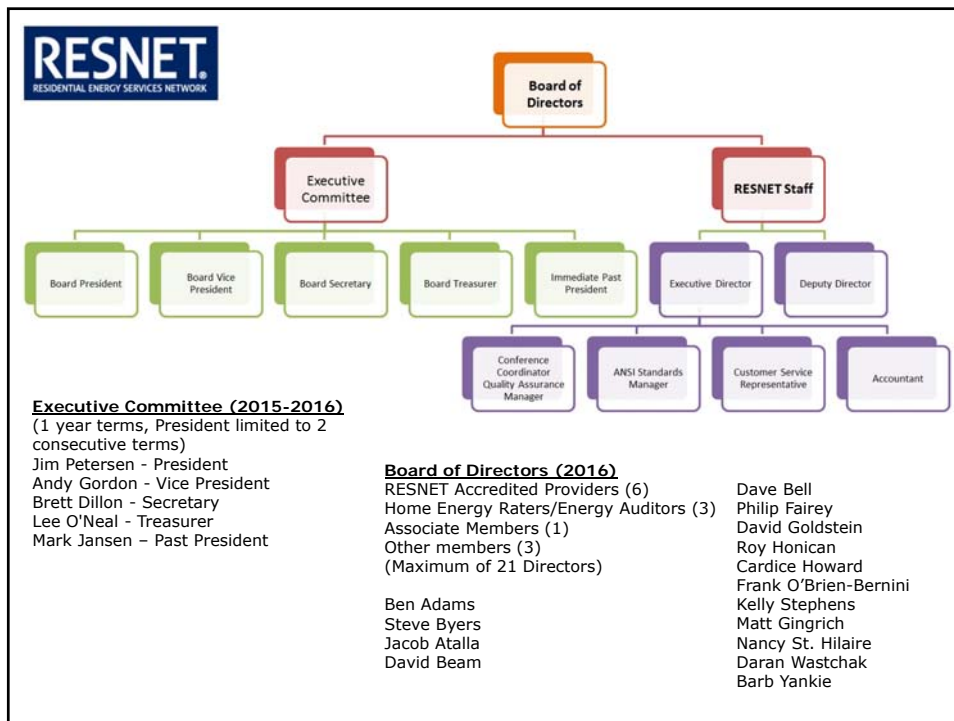
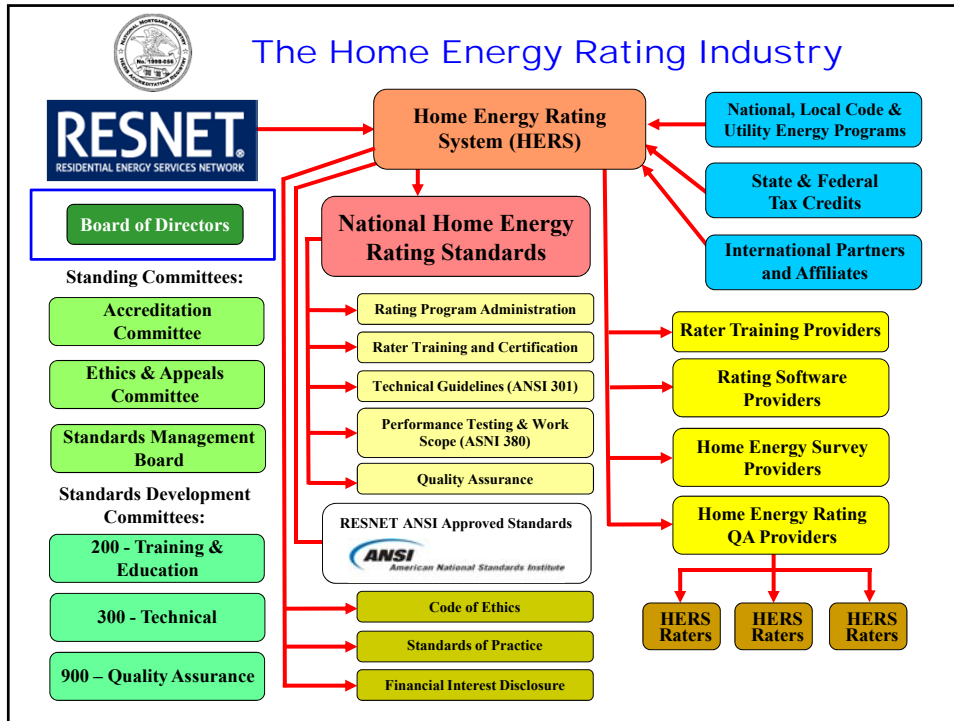
Rating Number: 2011-02-19-01
 Certified Energy Rater: Daniel Carpenter (TS)
 Rating Date: February 19, 2011
 Rating Ordered For: T.W. Lewis

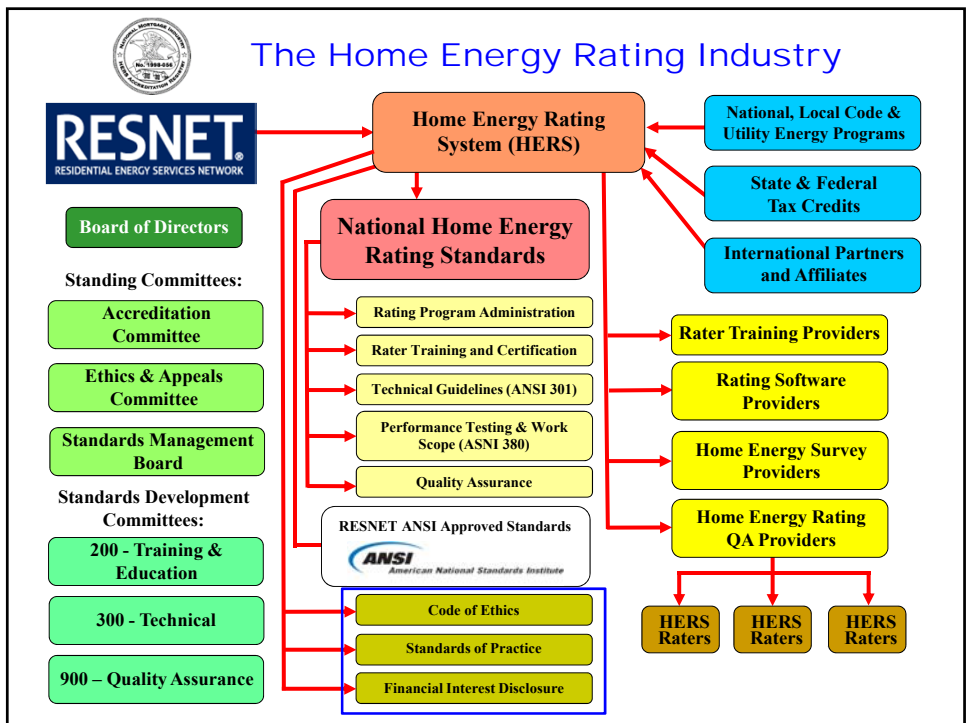
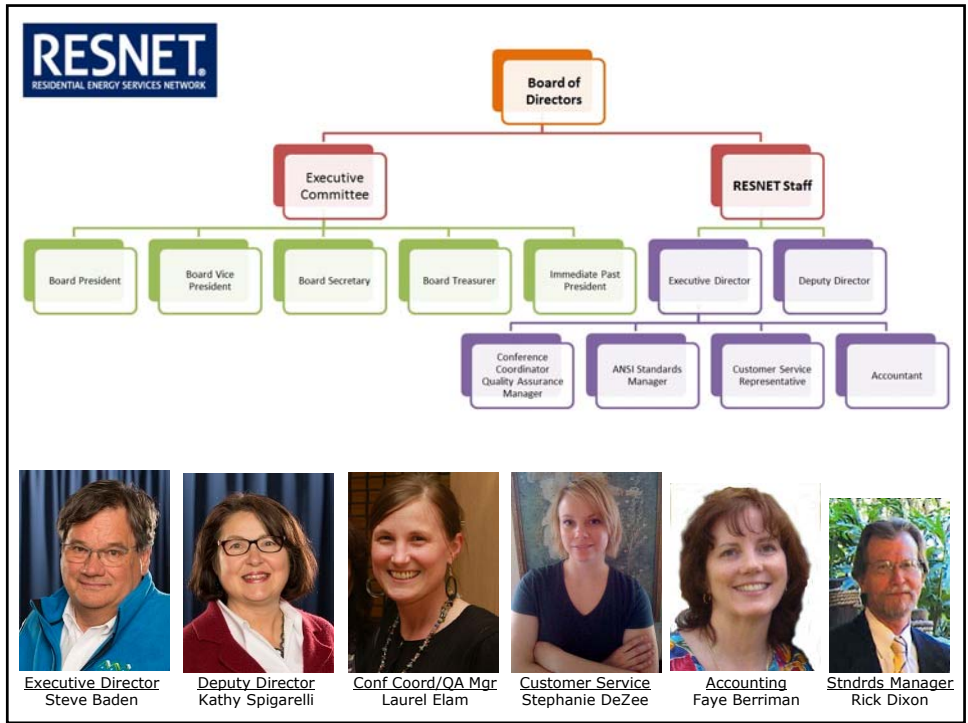
Estimated Annual Energy Cost			
Based On Plans			
Use	MMBtu	Cost	Percent
Heating	15.4	\$192	8%
Cooling	20.2	\$745	30%
Hot Water	15.6	\$187	8%
Lights/Appliances	37.2	\$1144	46%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$219	9%
Total		\$2488	100%

This home meets or exceeds the minimum criteria for all of the following:

TITLE
 D.R. Wastchak, LLC
 40 West Baseline Road, #102
 Tempe, Arizona 85283
 (480) 350-6274
 (480) 350-6275
 www.drwastchak.com







RESNET Code of Ethics
October 8, 2010

Statement of Purpose

The Accredited Home Energy Rating Providers, Rater Training Providers, and Home Energy Survey Providers (Providers) of the Residential Energy Services Network (RESNET) are committed to providing quality and professional service to their customers and the public. This Code of Ethics sets forth principles and rules of conduct enforced by RESNET through specific procedures contained in its Accreditation Standards. This Code of Ethics is a national minimum standard applicable to all accredited RESNET Rater Training Providers, RESNET Rating Providers, RESNET Home Energy Survey Providers, their Raters/Home Energy Survey Professionals and their representatives. The RESNET Code of Ethics represents minimum ethics requirements. As such, it may be augmented by additional ethics code requirements as required by an individual Rating Provider, Home Energy Survey Provider, Training Provider, or by any other authority under whose jurisdiction rating or training services are being provided.

Principle 1: Professional Conduct

- Raters/Home Energy Survey Professionals/Providers shall commit to objectivity and neutrality in conducting a rating/home energy survey and in making any recommendations.
- Raters/Home Energy Survey Professionals/Providers shall not engage in any conduct that is detrimental to the reputation or the best interests of RESNET, the profession or service.
- Raters, Home Energy Survey Professionals or a rating organization shall not disclose information concerning the rating or home energy survey for a specific home to parties other than the client or the client's agent without the written permission of the client or the client's agent except to report to the Rating or Home Energy Survey Provider for the purposes of registration, certification or quality assurance.

Principle 2: Representations of Services and Fees

- Raters/Home Energy Survey Professionals/Providers shall make no representations regarding their services or qualifications that are false or misleading in any material respect.
- Raters/Home Energy Survey Professionals/Providers shall fully disclose all applicable charges, as well as the general scope and deliverables of services, prior to conducting a home energy rating, home energy survey or providing other services.

RESNET Code of Ethics (October 8, 2010)
Page 2

Principle 3: Conflicts of Interest

- Raters/Home Energy Survey Professionals/Providers shall not accept compensation, financial or otherwise, from more than one interested party for the same service without the consent of all interested parties.
- Raters/Home Energy Survey Professionals/Providers shall inform their clients that they have the right to obtain competitive bids for any work recommended by the rating/home energy survey they provide.
- Raters/Home Energy Survey Professionals/Providers shall not allow an interest in any business to affect the results of the rating/home energy survey.
- Raters/Home Energy Survey Professionals/Providers shall not allow an interest in any business to affect the results of the rating/home energy survey.

As a Home Energy Rater operating under DRW, a RESNET Accredited Home Energy Rating Provider, I agree to abide by the RESNET Code of Ethics set forth herein.

Signature _____ Rater Certification No. _____ Date _____

Print Name _____



Setting the Standards for Home Energy Efficiency

RESNET Home Energy Rating Standards of Practice
June XX, 2014

"The purposes of these standards of practice are to ensure that accurate and consistent home energy ratings are performed by accredited home energy rating systems nationwide, to increase the credibility of the rating systems with the mortgage finance industry, and to promote voluntary participation in an objective, cost-effective, sustainable home energy rating process.

"The Residential Energy Services Network (RESNET) Home Energy Rating Standards of Practice establish minimum and uniform standards for home energy raters who are certified by RESNET-accredited rating providers."

4. Rating Report

4.1 Rating Score	11
4.2 Star Rating	10
4.3 Estimated Annual Energy Consumption	11
4.4 Estimated Annual Energy Costs	11
4.5 Property's Street Address	12
4.6 Name of Rater	12
4.7 Date of Rating	12

RESNET HOME ENERGY RATING Standard Disclosure

For home(s) located at: _____
City: _____ State: _____

Check the applicable disclosure(s) in accordance with the instructions on the reverse of this page:

1. The Rater or the Rater's employer is receiving a fee for providing the rating on this home.
2. In addition to the rating, the Rater or Rater's employer has also provided the following consulting services for this home:
 - A. Mechanical system design
 - B. Moisture control or indoor air quality consulting
 - C. Performance testing and/or commissioning other than required for the rating itself
 - D. Training for sales or construction personnel
 - E. Other (specify) _____
3. The Rater or Rater's employer is:
 - A. The seller of this home or their agent
 - B. The mortgagor for some portion of the financed payments on this home
 - C. An employee, contractor or consultant of the electric and/or natural gas utility serving this home
4. The Rater or Rater's employer is a supplier or installer of products, which may include:

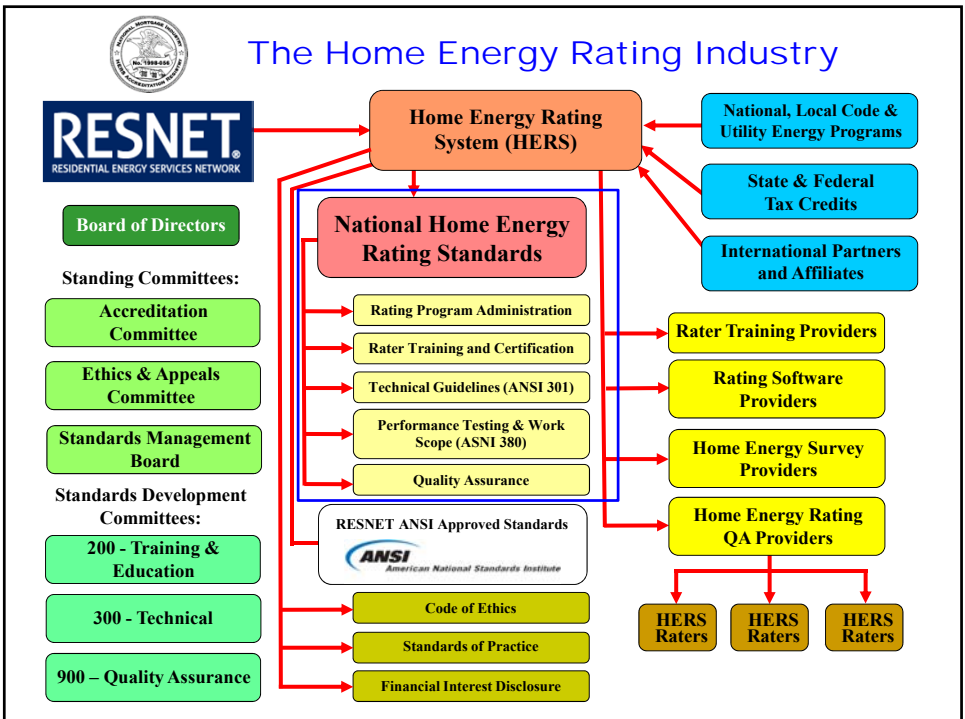
	Installed in this home by:	OR is in the business of:
HVAC systems.....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Thermal insulation systems.....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Air sealing of envelope or duct systems.....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Windows or window shading systems.....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Energy efficient appliances.....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Construction (builder, developer, construction contractor, etc)	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
Other (specify).....	<input type="checkbox"/> Rater <input type="checkbox"/> Employer	<input type="checkbox"/> Rater <input type="checkbox"/> Employer
5. This home has been verified under the provisions of Chapter 6, Section 603 "Technical Requirements for Sampling" of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET).

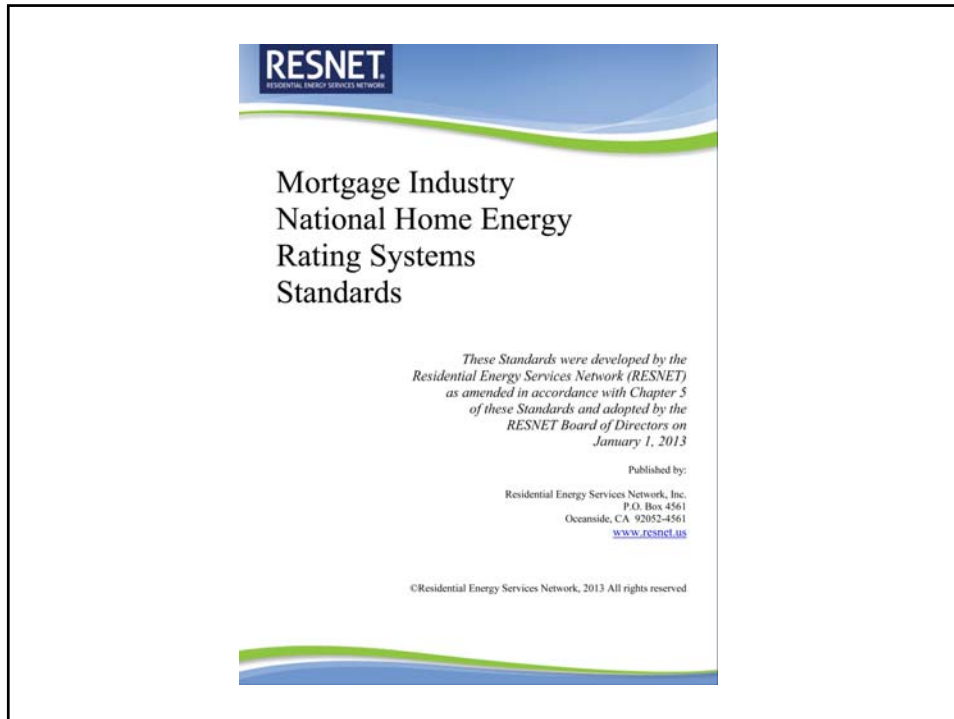
Rater's Printed Name _____ Certification # _____
Rater's Signature _____ Date _____

I attest that the above information is true and correct to the best of my knowledge. As a Rater or Rating Provider I abide by the rating quality control provisions of the Mortgage Industry National Home Energy Rating Standard as set forth by the Residential Energy Services Network (RESNET). The national rating quality control provisions of the rating standard are contained in Chapter One 4.C.8. of the standard and are posted at www.natresnet.org/accred/standards.pdf

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

RESNET Form 03001-2 - Amended April 24, 2007





RESNET Standards

- ✓ Chp 1 – RESNET National Standard for Rating Quality Assurance Providers
- ✓ Chp 2 – Rater Training Providers, Rater Training and Certification
- ✓ Chp 3 – National Energy Rating Technical Standard ([ANSI 301-2014](#))
- ✓ Chp 4 – ~~Builder Option Packages (BOP)~~ revoked
- ✓ Chp 5 – Revision of Standards
- ✓ Chp 6 – Sampling ([ANSI?](#))
- ✓ Chp 7 – Home Energy Audits
- ✓ Chp 8 – Testing and Inspection Protocols ([ANSI 380-201](#), Pending)
- ✓ Chp 9 – Quality Assurance
- ✓ Chp 10 – EnergySmart Contractors
- ✓ Appendix A – On-site Inspection Procedures for Minimum Rated Features
- ✓ Appendix B – Glossary of Terms

[RESNET 101 - What is RESNET and the HERS Index?
A Primer for Beginners](#)





Setting the Standards for
Home Energy Efficiency

Standards Development Policy and Procedures Manual for Non-“ANSI/RESNET” Standards

Residential Energy Services Network
(RESNET)

Version 1.0

Adopted by RESNET Board of Directors

August 18, 2014

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Energy Services Network.

P.O. Box 4561, Oceanside, CA 92052 • Phone: 760-806-3448 • www.resnet.us

RESNET CERTIFIED ENERGY AUDITORS/RATERS AND QUALIFIED CONTRACTORS/BUILDERS
Residential Energy Services Network

Home Find Raters & Auditors Find Contractors & Builders Resources & Information RESNET

About RESNET - RESNET Standards - Submitting proposed amendments to the RESNET standards

Mortgage Industry National Home Energy Rating Standards
RESNET National Standard for Home Energy Audits
RESNET Procedures for Certifying Residential Energy Efficiency Tax Credits
Rating and Home Energy Survey Ethics and Standards of Practice
Rater Financial Interest Disclosure Form
RESNET Procedures for Verification of International Energy Conservation Code Performance Path Calculation Tools

SUBMITTING PROPOSED AMENDMENTS TO THE RESNET STANDARDS

RESNET welcomes proposed amendments to the Mortgage Industry National Home Energy Rating Standards. The proposed amendment must be submitted online.

After RESNET receives a proposed amendment it is forwarded to the appropriate standing committee. The committee will then review the request and either request additional information or submit it to the RESNET standard amendment public review and comment process. The committee is able to amend the proposed revision.

To submit a proposed amendment, fill out the RESNET Online Standard Amendment Form below.

In order to be considered the proposal must be in editorial underline/strike out format with specific sections listed. For an example of an accepted proposed amendment click on proposed amendment example ([Auxiliary Electric Energy of USHE](#)).

RESNET PROPOSED STANDARD AMENDMENT FORM

All fields are required.

Title of Proposed Amendment:

Name of Person Proposing Amendment:

Name of Organization:

E-mail Address:

Phone Number:

Proposed Amendment: No file selected.

(Document must be submitted in editorial underline/strike out format with specific sections listed)

Background/Rationale for Proposed Amendment: No file selected.

(Please zip all supporting material in electronic form and attach it here)

RESNET RESNET Standards- Advisory Version

Chapter 1- RESNET National Standard for Quality Assurance Providers
 Chapter 2- RESNET National Standard for Training and Certification
 Chapter 3- National Home Energy Rating Technical Standards
 Chapter 4- Builder Option Packages
 Chapter 5- Revision of Standards
 Chapter 6- RESNET National Standard for Sampled Ratings
 Chapter 7- RESNET National Standards for Home Energy Audits
 Chapter 8- RESNET Standard for Performance Testing and Work Scope
 Chapter 9- RESNET National Standard for Quality Assurance
 Chapter 10- RESNET Standard for Energy Smart Projects and Energy Smart Contractors
 Appendix A- On Site Inspection Procedures for Minimum Rated Features
 Appendix B- Glossary of Terms
 Appendix C- Informative

Mortgage Industry National Home Energy Rating Systems Standards – Advisory Version
 This document is a working copy of the 2017 Standards that incorporates all amendments adopted as of March 26, 2017.

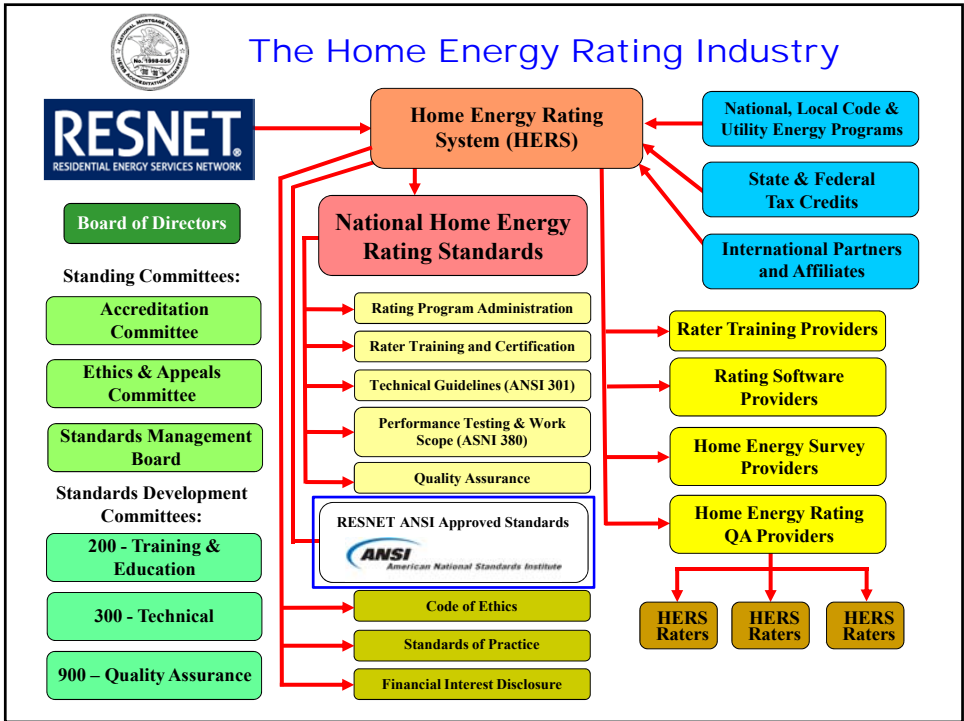
The official copy of the Standards are posted at http://www.resnet.org/standards/RESNET_Mortgage_Industry_National_HERS_Standards.pdf

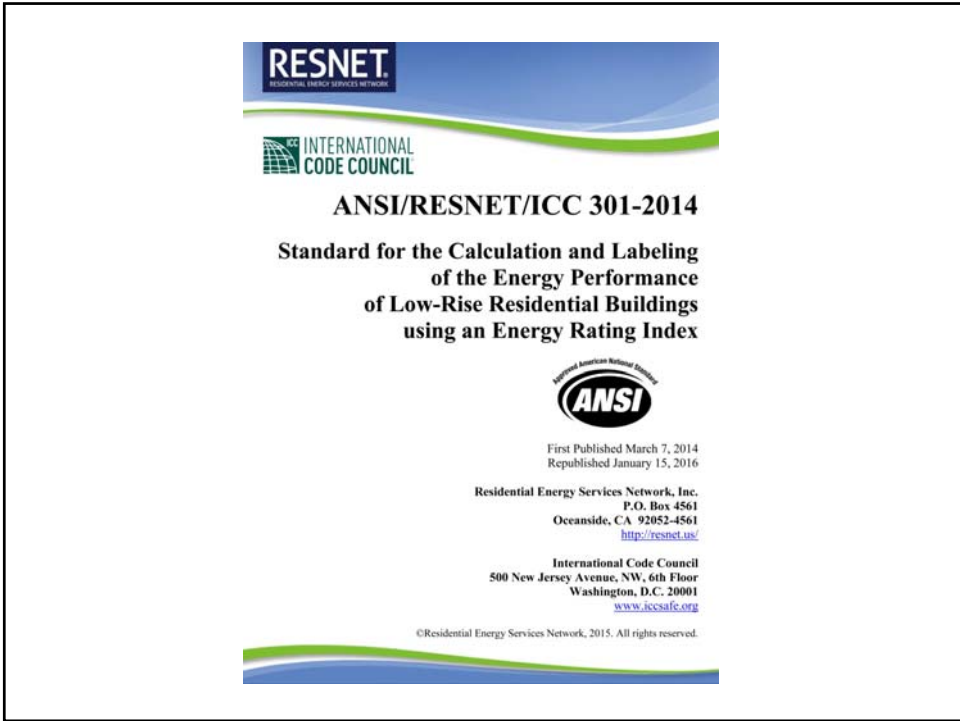
Published by:
 Residential Energy Services Network, Inc.
 P.O. Box 4361
 Oremville, Ct
 02852-4362
 303.939.0036

Submitting Proposed Amendments to the RESNET Standards
 RESNET welcomes proposed amendments to the Mortgage Industry National Home Energy Rating Standards. The proposed amendment must be submitted online. To submit a proposed amendment, fill out the RESNET Online Standard Amendment Form.

After RESNET receives a proposed amendment it is forwarded to the appropriate standing committee. The committee will then review the request and either request additional information or submit it to the RESNET standard amendment public review and comment process. The committee is able to amend the proposed revision.

In order to be considered the proposal must be an editorial submission with no format with specific sections listed. [Click here for an example of an accepted proposed amendment](#)



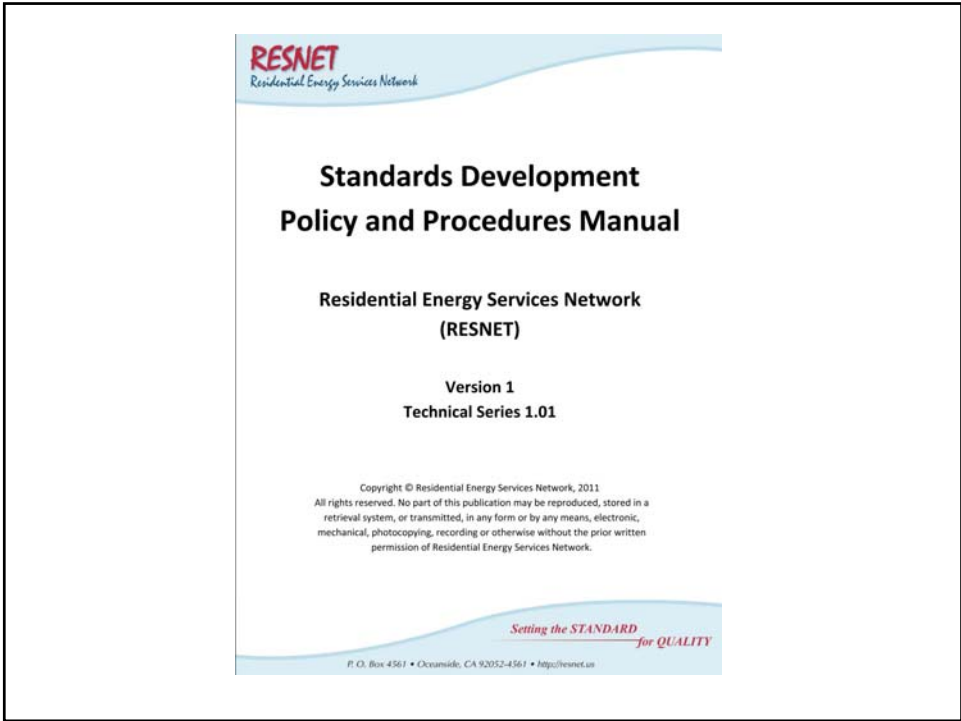


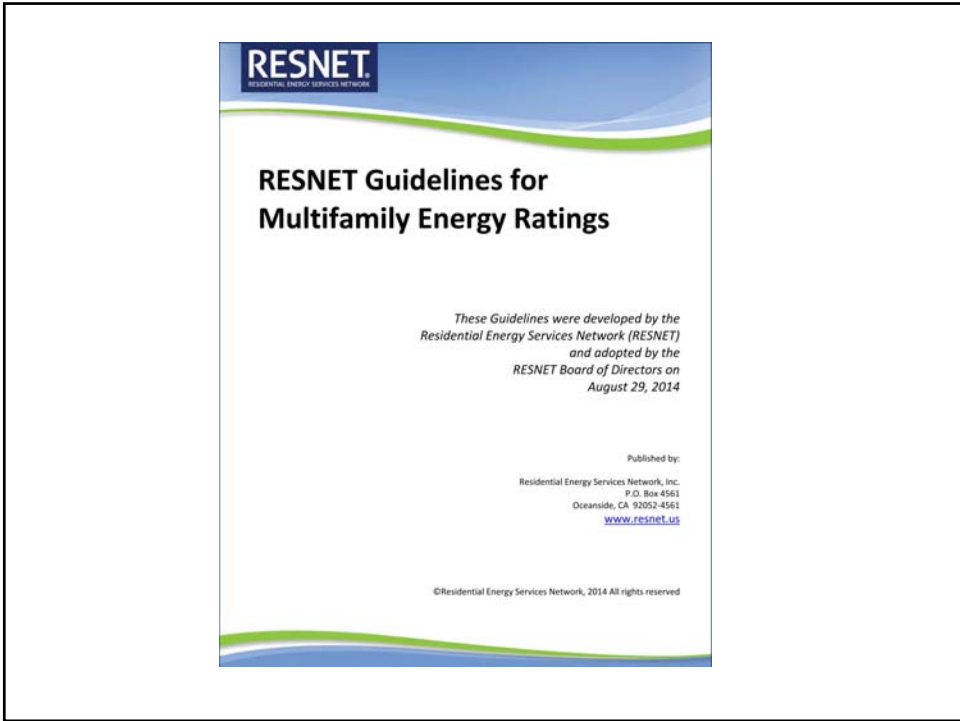
RESNET Standards

- ✓ Determining the Energy Rating Index
- ✓ Energy Rating Reference Home and Rated Home Configuration
- ✓ Operating Condition Assumptions
- ✓ Minimum Rated Features
- ✓ Existing Home Retrofit Savings
- ✓ Economic Cost Effectiveness
- ✓ Certification and Labeling
- ✓ Rating Requirements
- ✓ Innovative Design Requests
- ✓ Labeling

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A Primer for Beginners*







RESNET
RESIDENTIAL ENERGY SERVICES NETWORK

Setting the Standards for Home Energy Efficiency

RESNET Formal Interpretation 2013-01
Approved by the RESNET Board of Directors, xx/xx/2013

Proponent:
SDC 300 Calculations Subcommittee

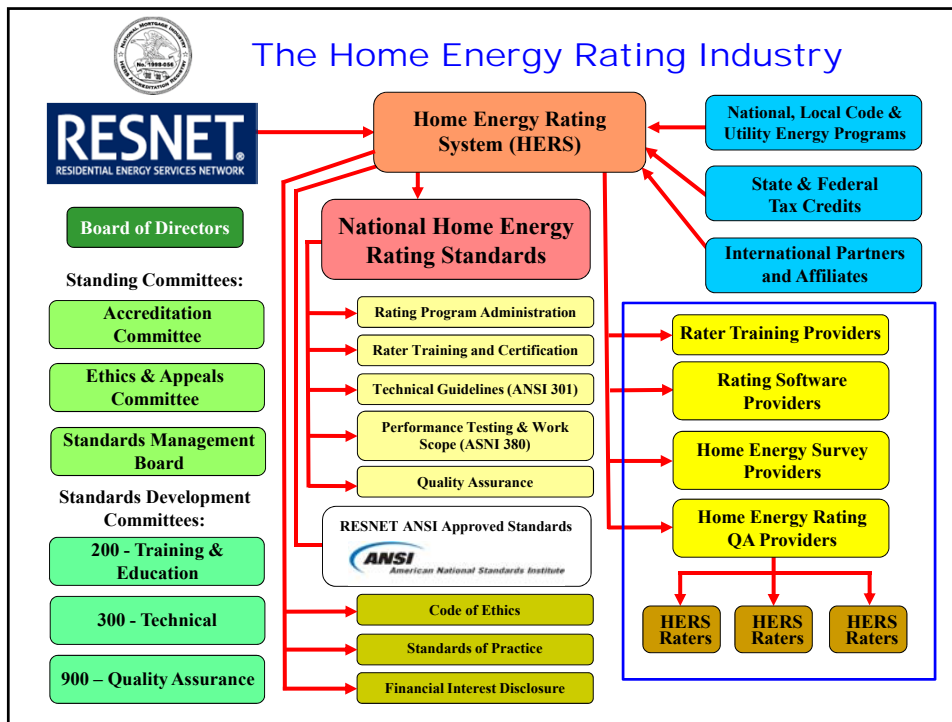
Applies to:
Mortgage Industry National Home Energy Rating Systems Standards (2013)
Sections 303.4.1.7.2.2 through 303.4.1.7.2.4

Qualifying Light Fixture – A light fixture located in a Qualified Light Fixture location and comprised of any of the following components: a) fluorescent hard-wired (i.e. pin-based) lamps with ballast; b) screw-in compact fluorescent bulb(s); or c) light fixture controlled by a photocell and motion sensor.

Purpose:
As it applies to the definition of Qualifying Light Fixture, LED lights with a luminous efficacy equaling or exceeding 50 lumens/watt shall be considered equivalent to CFLs.

Interpretation:
Where the Home Energy Rater provides manufacturer's documentation that the luminous efficacy a LED light equals or exceeds 50 lumens/watt, said LED light shall be considered equivalent to a CFL and may be used to improve the HERS Index.

Justification:
LED lighting with the above luminous efficacy is a relatively recent advancement and such LED lights should be considered equivalent to the efficiency of CFLs. Otherwise, this advanced lighting technology will not receive the credit it deserves in the HERS Index Score.



How To Become A HERS Rater

✓ RESNET Training

- Participate in a RESNET Rater Training Course from a RESNET Accredited Rater Training Provider (or “challenge the exam”)(typically 5 days)
- Pass the RESNET Rater Exams (80%) (on-line exams)
 - RESNET Standards and Rater Protocols (50 questions)
 - Combustion Safety Work Scope “Written Exam” (25 questions)
 - Combustion Safety Practical 3-D Simulation
- Complete 5 “Probationary” Ratings
 - Two (2) “training ratings” with RESNET Certified Trainer
 - Three (3) “probationary ratings” with QA Provider

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How To Become A HERS Rater

✓ EPA ENERGY STAR version 3.0 Rater Training Course

If planning to certify homes for ENERGY STAR:

- Participate in a training course from a RESNET Accredited Rater Training Provider (typically 2 days)
- Pass written Exam (80%) (50 questions)

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How To Become "Rating Field Inspector" (RFI)

- ✓ Effective July 1, 2015
- ✓ Five (5) mentored probationary "ratings"
- ✓ Pass JobWerks Test
- ✓ Pass Combustion Appliance Zone (CAZ) Simulation Test

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RESNET Quality Assurance

- ✓ RESNET Quality Assurance
 - Ten percent (10%) File Review (quarterly)
 - One percent (1%) Field Review (quarterly)



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Presentation Review

- ✓ Introduction to RESNET
- ✓ What is RESNET's mission
- ✓ Who is "RESNET" and how the organization operates
- ✓ Overview of the HERS Index

Questions?

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