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Professionals Providing Real Estate Solutions

The NEW AI Residential Green and Energy Efficient Addendum **Auto Populate it with HERS**

Presented by: James Murrett, MAI, SRA, 2018 AI President And

Sandra K. Adomatis, SRA, LEED Green Assoc., NAR Green Designee February 26, 2018 1:30 pm - 3:00 pm

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Meet the speakers



James L. Murrett, MAI, SRA AI 2018 President



Sandra K. Adomatis, SRA, LEED Green Assoc., NAR Green



Objectives



- List the updates to the AI Res. Green & EE Addendum (AIGREEA)
- Highlight the changes that enhance its market value
- Describe the HERS information that is "Big Data"
- Relate the HERS to Valuation
- Discuss latest studies of marketing to sales price premiums

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James Murrett, MAI, SRA

Summary of Updates to the AIGREEA 820.05



- Reorganization of data to align with the real estate agents' forms
- Mapped to Real Estate Standards Organization (RESO)
 Dictionary and to Mortgage Industry Standards
 Maintenance Organization (MISMO) Dictionary
- Remove data that was less acknowledged by market
- Added energy storage to the Solar Page and ownership descriptions that catorgorize solar PV as personal property or real estate
- Added signature line of person completing each page
 allows for more than one person to complete

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Are you running your business through the rear view mirror?





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Why an update to the AIGREEA?



- The market is changing and so is building science
- Mapping to data standards used by the industry improves the value of the document
- Feedback from users prompted changes we must listen to the users of our services

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7 Technological Innovations May Conquer Real Estate Industry in 2018



Technology has conquered almost every industry field and now it is time for the real estate industry to rise and shine. Technology has made it easy for both real estate agents and potential homebuyers to buy and sell properties without exerting so much effort like the old conventional ways. Next we give you the 7 technological innovations that are expected to conquer the real estate world in 2018 and will help move things along and set new trends in the business.

Source: https://www.reso.org/7-technological-innovations-may-conquer-real-estate-industry-2018/

Guest blog by: Jamie Moulton

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7 Technological Innovations May Conquer Real Estate Industry in 2018

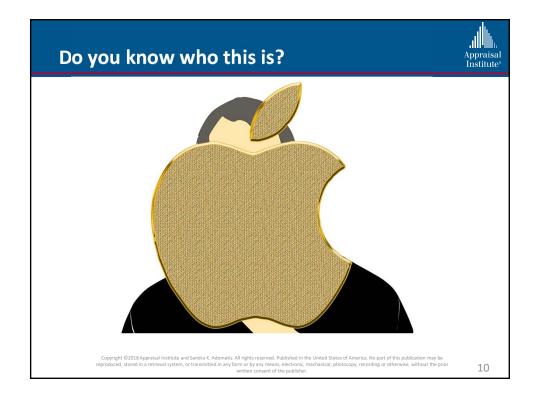


- 1. Drone Land Surveying
- 2. Virtual reality real estate
- 3. 360 video real estate tour
- 4. Smart Home Technology
- 5. Blockchain
- 6. Beacon Technology
- 7. Artificial intelligence

Source: https://www.reso.org/7-technological-innovations-may-conquer-real-estate-industry-2018/

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RESO Importance to AI and RESNET



The Deadline for MLSs to Adopt the RESO Data Dictionary Version 1.6 is August 4th, 2018 – is your MLS Ready?

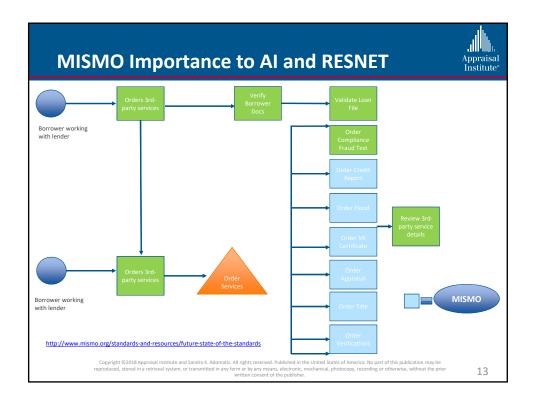
Benefits of Data Dictionary Implementation

•Simplified Data Integration: Data Dictionary structured data can move between systems without losing information; Data translation costs are reduced because of consistent data definitions and usage; and it is easier for MLS's, Brokers, technology partners and other third parties to develop new, data-driven applications and services that serve Realtors® across North America.

https://www.reso.org/data-dictionary/

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Fannie Mae Says



Energy Efficient Improvements

 An energy-efficient property is one that uses resource-effective design, materials, building systems, and site orientation to conserve nonrenewable fuels.

Source: Fannie Mae Selling Guide dated December 19, 2017
Part B; Subpart B-4; Chapter B4-1; Section B4-1.3 Appraisal Report Assessment - Page 556

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Who should complete the Addendum?



- The person(s) with the most knowledge of what is behind the walls.
- Builder,
- · Energy or green rater,
- Architect,
- Solar installer, or a combination of one or more of these professionals.
- Appraisers can complete the Addendum if they have all the documentation to know what is behind the walls or proposed.

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Why doesn't the appraiser complete Addendum?



 In most cases, appraisers are not given enough documentation to allow them to complete the Addendum. The typical new construction borrower comes with the three following documents.



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Why don't appraisers complete the Addendum?



 If a full HERS report, Building Professional Institute (BPI) report, and/or, full green scoring sheet is given to the appraiser, the Addendum can be completed in less than 30 minutes. They need a trusted source!



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HERS Report – "Big Data"



- Appraisers are not trained in building science
- Appraisers do not have tools to diagnostically test energy features
- Appraisers cannot see behind the walls
- Liability is too great for appraisers to guess at the energy efficiency. We NEED your report!

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Sandra K. Adomatis, SRA

Appraisal Standards



- Appraisers must identify characteristics that are relevant to the type and definition of market value and the intended use of the appraisal. Those items include locational, physical, legal, and economic attributes of the property.
- The market is interested in energy efficient homes for the economic attributes they give in lower energy savings and the physical comfort they give through better indoor air quality and rooms with even temperatures.

Fannie Mae Guideline Says



- Special energy-saving items must be recognized in the appraisal process and noted on the appraisal report form. For example, when completing the appraisal report (Form 1004), special energy-efficient items are to be addressed in the Improvements section in the Additional features field. The nature of these items and their contribution to value will vary throughout the country because of climactic conditions, differences in utility costs, and overall market reaction to the cost of the feature.
- Some examples of special energy-efficient features may include, but are not limited to, energy efficient ratings or certifications, programmable thermostats, solar photovoltaic systems, low-e windows, insulated ducts, and tank-less water heaters.

Source: Fannie Mae Selling Guide dated December 19, 2017
Part B; Subpart B-4; Chapter B4-1; Section B4-1.3 Appraisal Report Assessment - Page 556

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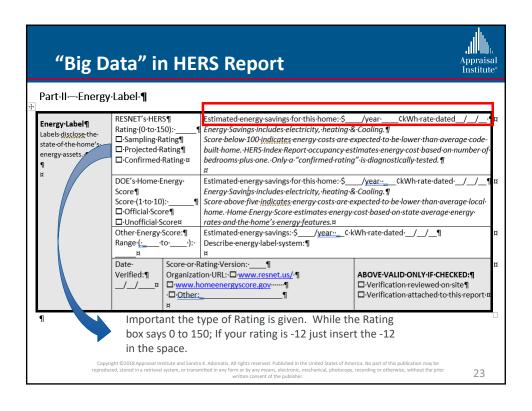
Additional Features Field on 1004 Form

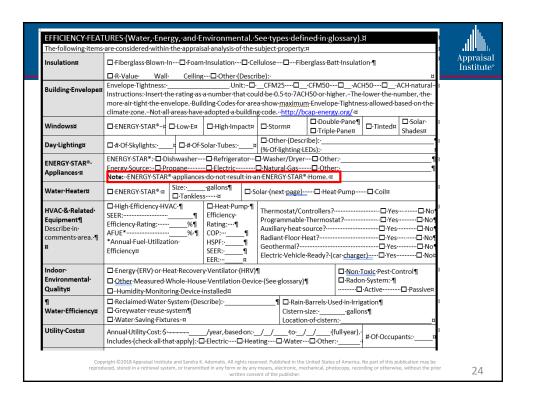


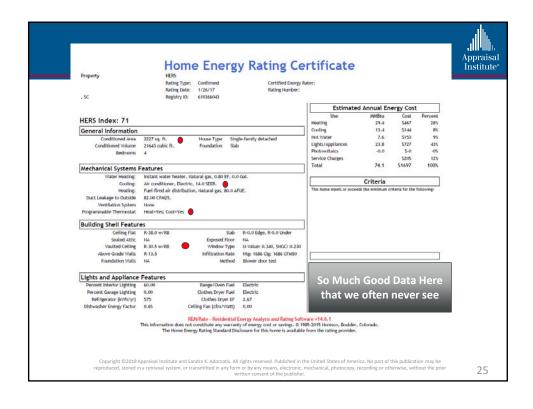


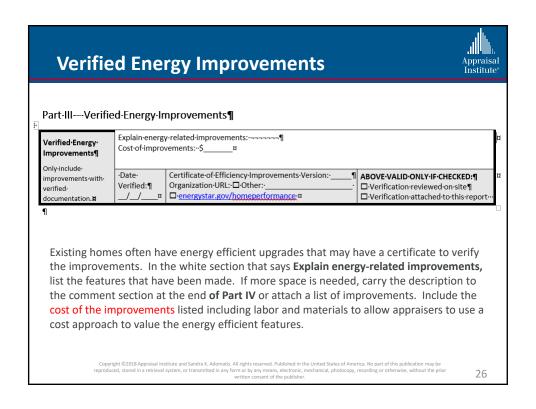
Additional features (special energy efficient items, etc.). The AI Residential Green and Energy Efficient Addendum included in this report describes the energy and green features that make this home a high-performance property.

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Example of comments referencing HERS Importance



Comments¶ Include-source-for information. provided·in·this· section.¤

 $If \cdot a \cdot property \cdot is \cdot built \cdot green \cdot but \cdot not \cdot formally \cdot certified, \cdot it \cdot still \cdot deserves \cdot proper \cdot description \cdot and \cdot analysis \cdot to \cdot value \cdot property \cdot it \cdot property \cdot propert$ $the \cdot features. \cdot \cdot The \cdot market \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot and \cdot locational \cdot attributes \cdot and \cdot not \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot and \cdot locational \cdot attributes \cdot and \cdot not \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot and \cdot locational \cdot attributes \cdot and \cdot not \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot and \cdot locational \cdot attributes \cdot and \cdot not \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot and \cdot locational \cdot attributes \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot is \cdot of \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot the \cdot structure's \cdot physical, \cdot economic, \cdot analysis \cdot physical, \cdot analysis \cdot physical, \cdot economic, \cdot analysis \cdot physical, \cdot analysi$ $analysis \cdot of \cdot its \cdot label \cdot alone \cdot \underline{Provide} \cdot additional \cdot information \cdot that \cdot illustrates \cdot how \cdot this \cdot property \cdot exceeds \cdot local \cdot property \cdot exceeds \cdot property \cdot exceeds \cdot property \cdot property$ $building \cdot code. \cdot This \cdot document \cdot is \cdot intended \cdot for \cdot new \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot existing \cdot homes \cdot that \cdot have \cdot been \cdot retrofit \cdot to \cdot construction \cdot or \cdot construction \cdot$ include-higher-energy-or-green-features.¶

 $"The \cdot local \cdot building \cdot code \cdot is \cdot 2009 \cdot IECC. \cdot \cdot This \cdot structure \cdot is \cdot built \cdot to \cdot a \cdot higher \cdot standard \cdot than \cdot the \cdot 2009 \cdot IECC \cdot and \cdot is \cdot the object of the object of$ $32\% \cdot more \cdot energy \cdot efficient \cdot than \cdot the \cdot local \cdot building \cdot code. \cdot \cdot The \cdot HERS \cdot Rating \cdot for \cdot this \cdot same \cdot house \cdot only \cdot built \cdot to \cdot representations and the original of the or$ the·2009·IECC·standards·in·this·market·would·be·77·at·this·location·and·this·structure·has·a·HERS·Rating·of· 45.···This·house·has·an·estimated·energy·savings·of·\$850·annually·as·a·result·of·the·upgrades.··The·savings·is· documented in the attached HERS Report."

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Health and Safety is a concern for mortgage market & buyers - Include the certificates with the AIGREEA.



This home built at 4162 Mermell Circle, North Port, FL 34291 was verified by

Jeremy Gary

to meet Indoor airPLUS construction by the U.S. Environmental Protection Agency



Indoor airPLUS qualified homes are designed to contribute to improved indoor air quality.

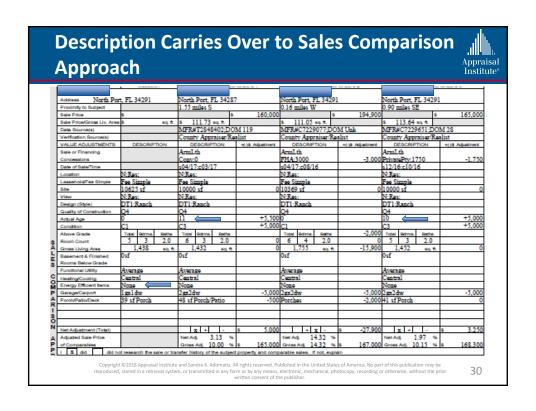
6/29/2017



or airPLUS Features Moisture and Mold Control

- Radon Resistant Construction
- Effective Heating, Ventilating, and Air-Conditioning Systems
- Safe Combustion





Appraisal – Energy Data Relevance



- Assists appraiser in meeting the secondary mortgage market guidelines and appraisal standards
- Gives appraiser data to understand the efficiency of the subject and the type of comparables I need to choose
- Gives me energy savings to develop an income approach to value energy efficiency.

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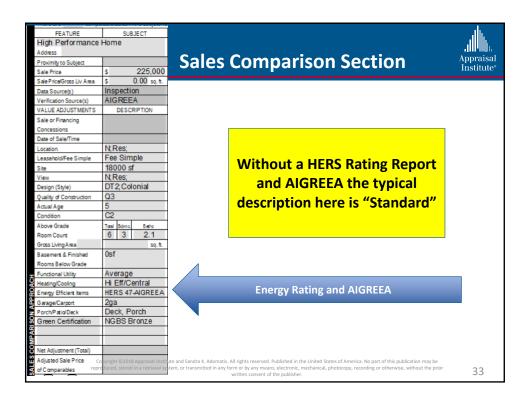
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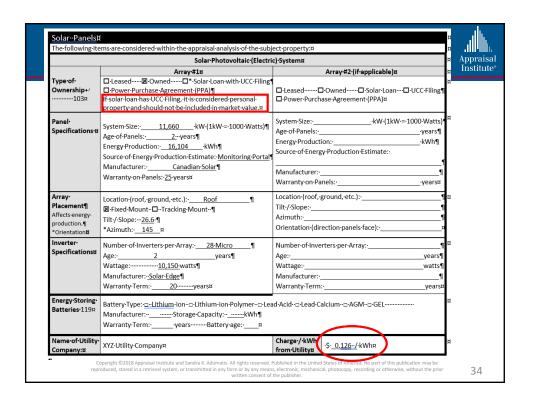
Appraisers have tools to value features.



- Paired-Data Requires sales with the feature and similar sales without the feature
- Cost Approach Requires Cost New of feature and depreciation from all forms of loss.
- Income Approach Requires savings amount because of the feature and knowledge of life of the system.

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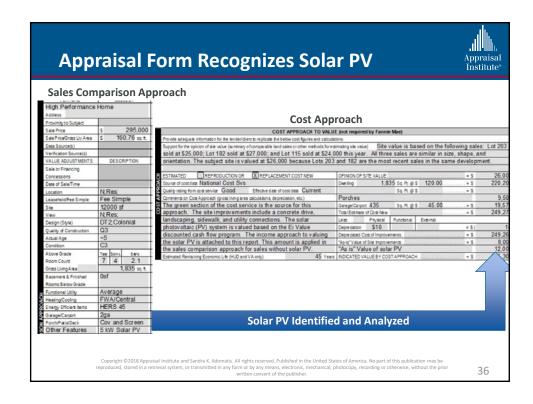


Solar description required to value PV

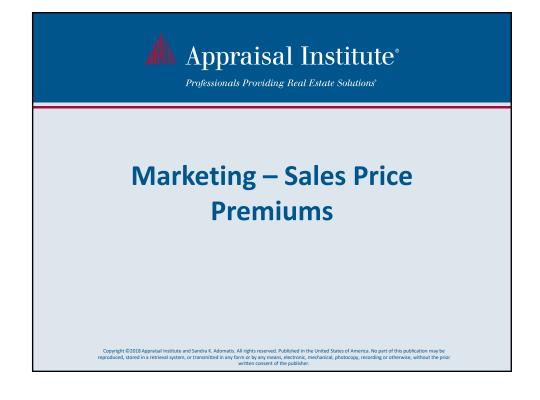


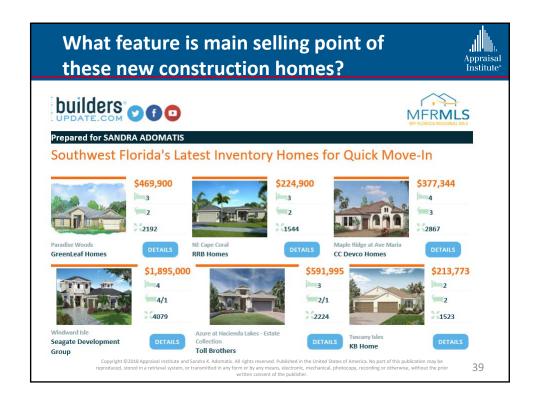
	Income A	Approach Method	Enerç	y Value DCF	
Utility F	Rate	Solar Resour	ce O & M Expense		
Utility Rate Source:	User Provided	System Size:	11.66 kW	O&M Model: In	verter Replacement Cost
Utility Company:	Ø.	Module Warranty:	25 yrs	Inverter Size:	10.15 kW
Utility Tariff:		System Age:	1 yr	Inverter Age:	1 yr
Utility Rate:	12.60¢/kWh	Remaining Life:	24	Inverter Warranty:	20 yrs
Min	Max	System Loss:	14%	Inverter Replaced:	NO
7.03c/kWh	19.24¢/kWh	Degradation Rate:	0.5%	Inverter Replacement Cycle:	20 yrs
Effective Rate:	12.60¢/kWh	Array Tilt:	5/12 22.6°	Inverter Replacement Cost:	55.00¢/watt
Escalation Rate Type:	EIA State	Array Azimuth:	145°	Annual Expense:	-
Escalation Rate:	1.59% CAGR	Est. kWh Source:	PVWatts v5	Yearly Gross Expense:	55.00¢/watt
Extra Comments:		Annual Est. kWh(s):	16,966	0&M Expense (future):	\$5,582.50
The cost and income approaches form a		Actual kWh Source:	191	0&M Discount Rate:	5.02%
tight range.		Annual Actual kWh(s):		0&M Expense (discounted):	\$2,201.67

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	Solar Thermal Water Heating System								
+	Part·VISola	ır-Thermal-Water-Heating-System¶							
	Solar·Thermal·Water·Heating·System¤								
	Type-of-Systems	Active:Direct	Storage·Tank· Size¤	Gallons:¤	¤				
	Collector·Type¤	□·Flat-Plat···□·Integral·····□·Evacuated-Tube·Solar¤	System-Age¤	Years:¤	п				
	Back-Up· System¤	□-Conventional-Water-Heater□-Tankless- <u>On</u> -Demand □-Tankless-Heat-Pump¤	Tankless-On-Demand-Warranty-Term#						
	Solar·Energy· Factor·(SEF)¤	*Rating-ranges-1-to-11. Higher-number-is-more-efficient.	Manufacturer¤	й	ц				
	Secondary mortgage market requires a backup system. This data gives the appraiser that information from a trusted source.								
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Marketing energy/label got results



Pearl Silver	Contract Date	Days on Market	Sold Price	Adjusted Sale Price	Living Area	Sales Price Premium (Pearl Sale Price- Adjusted Non Green Sale Price)	Premium as % of Sale Price (Premium/Pearl Sale Price)	Age Yrs
Zion Cross	roads							
S	Single-Unit Detac	hed						
Pearl	10/11/2016	300	\$400,000		2,595			7
Pair 21	3/7/2015	29	\$328,000	\$357,900	2,443	\$42,100	10.53%	7
Pair 22	2/26/2015	233	\$374,000	\$373,400	2,559	\$26,600	6.65%	7

The MLS had the Pearl Home Certification documents attached and the certificate in the photograph gallery. The last sentence of the remarks said, "Energy efficiency verified through Pearl Certification."

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Marketing without energy/label – No sales price premium



Pearl Gold Great Falls,	Contract Date	Days on Market	Sold Price	Adjusted Sale Price	Living Area	Sales Price Premium (Pearl Sale Price- Adjusted Non Green Sale Price)	Premium as % of Sale Price (Premium/Pearl Sale Price)	Age Yrs
S Pearl	Single-Unit Detac 5/12/2017	hed 7	\$1,530,000		6,220			23
Pair 31	4/7/2017	2	\$1,550,000	\$1,542,000	4,960	-\$12,000	-0.78%	22
Pair 32	9/12/2017	102	\$1,580,000	\$1,603,864	5,064	-\$73,684	-4.82%	20
Pair 33	2/26/2017	410	\$1,412,500	\$1,470,500	5,953	\$59,500	3.89%	23
Pair 34	4/3/2015	32	\$1,625,000	\$1,598,500	6,452	-\$68,500	-4.48%	21
Pair 35	2/9/2017	155	\$1,530,000	\$1,521,500	5,326	\$8,500	0.56%	0

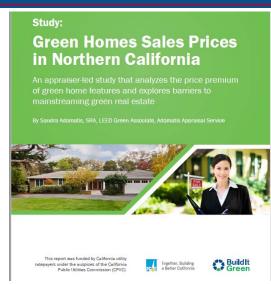
The MLS listing had no remarks about the efficiency or Pearl Home Certification and no picture of the certification was included in the photograph gallery. The AIGREEA was not attached or referenced.

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Another Study – Marketing vs. Sales Price Premiums





2.19% Sales Price Premium

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CA Study Conclusions...



Key Findings

- It is very difficult for green homes to be found because of the limitations in the MLS and loss of
 information on the green features after the home is built.
- Appraised values of these homes will continue to be a complex assignment that will take
 extended market research and time to complete. The complexity of the assignment requires an
 appraiser with good knowledge of green building concepts and willingness to do the extra
 research. Clients must be willing to pay fees commensurate with the time involved in these
 assignments.
- Green homes command a price premium despite these challenges. There is potential for an
 even greater premium if the real estate industry had additional support with MLS infrastructure,
 professional training, and consumer education.

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Resolutions to challenges in marketing



Recommendations to resolve this challenge:

- Provide access to accessible and credible scoring and certification programs to REALTORS®, home inspectors, and contractors that target the existing housing stock.
- Integrate energy and green certification as a free value add in publically funded energy
 efficiency retrofit programs.
- Assist public agencies with integrating energy and green certification into voluntary reach codes for remodeling and time of home sale.

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Do you see how Energy Raters can make a difference?



Recommendations to resolve this challenge:

- Auto-populate the green MLS fields from a trusted source.
- Include the green certification and AI Residential Green and Energy Efficient Addendum as an attachment in the MLS.
- Label the electrical box onsite showing the certification, score, and date rated.
- Put the green and/or energy certificate as a jpg in the MLS photograph gallery.
- Include green feature details and their benefits in the MLS searchable fields to result good marketing techniques and maximize the sales price for these features.
- Recognize that improper marketing of green home listings can be a liability for agents and proper marketing can mean higher prices and larger commissions.

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James Murrett, MAI, SRA





Why doesn't the Addendum include value?

It is impossible to breakdown the contributory value of all the house components. The Addendum was developed to describe the energy and green features used in high performance houses and standardize the terms used.



Standardize the language of building science!

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Does the appraiser have to include the Addendum in the appraisal report on energy efficient and green homes?

The appraiser decides what documents should be included in the appraisal report. It is more expeditious for the appraiser to include a completed Addendum rather than try to meet appraisal standards by typing the details in a text addendum. By including the Addendum, the appraiser also has a basis for analyzing the energy efficiency of the structure. Simply stating a property is energy efficient and giving value to energy would be less convincing when the details of the efficiencies are not included.

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Frequent Questions about the AIGREEA



Is it true the appraiser must give value to the energy features if you provide the Addendum?

The Addendum does not guarantee value will be given for energy or green features. Appraisers must analyze their market data and support any value attributed to these features. By giving no value or a zero, the appraiser has certified that they have analyzed that feature and has support for a zero or something more.

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Should the Addendum be completed on proposed construction? If so, how do the complete the energy rating when the structure is not built yet?

Yes, the appraiser typically appraises proposed construction from plans and specifications. If a projected HERS rating is included with the Addendum, it gives the appraiser the supporting data and estimates they need to value the energy efficiency. Without a projected HERS rating, the appraiser will not have the energy savings amount to use in valuation or in comparable choice. Too often, specifications do not detail the energy efficient features in a way that is meaningful to the appraiser like the Addendum does. The appraiser will make the appraisal subject to a final inspection. If the projected HERS and the confirmed HERS rating is very different, the appraiser may need to do a reevaluation at an additional charge.

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Frequent Questions about the AIGREEA Clarification regarding "Verification reviewed on site." Is this by the appraiser, or can it indicate verification by a third party as well? Part-III---Verified-Energy-Improvements¶ Explain-energy-related-improvements: Verified·Energy· Cost-of-improvements:--\$ Improvements¶ Only-include-Certificate-of-Efficiency-Improvements-Version: ABOVE-VALID-ONLY-IF-CHECKED: 9 improvements with Verified:¶ Organization·URL:·□·Other: □-Verification-reviewed-on-site¶ verified· □-Verification-attached-to-this-reportdocumentation.¤ This statement is primarily for the appraiser that is completing the Addendum; however, it could also apply to a third-party completion. By checking the on-site verification, it implies you do not have a full copy of the report. Copyright ©2018 Appraisal Institute and Sandra K. Adomatis. All rights reserved. Published in the United States of America. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopy, recording or otherwise, without the prio written consent of the publisher.



When a location has several utility company choices and plans, what is the rate raters use in the HERS Rating to estimate the energy savings?

An average kWh rate based on the rates available.

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