Gateway to Greater Value and Lower Costs



Presenter: Sandra K. Adomatis, SRA, LEED Green Assoc., GREEN











Realtors® See Sharp Increase in Homes with Green Features

April 26, 2022

Media Contact: Spencer High 202-383-1051

Sustainability

Key Highlights

- Half of Realtors® surveyed have recently helped clients buy or sell a home with green features, up from 32% from the previous year.
- Roughly two out of three agents and brokers see value in promoting energy efficiency in listings.
- A third of respondents are concerned about the impact of extreme weather events on the housing market.

https://www.nar.realtor/newsroom/realtors-see-sharp-increase-in-homes-with-green-features







- Are the energy efficiency and green features' value represented in the appraisal?
- What are the best investments for a homeowner to make?
- How do you communicate those improvements to potential buyers, appraisers, and lenders?
- Can the buyer finance those additional costs?



The answers lie within the entire real estate ecosystem!

Are the energy and green features valued in the appraisal?

Starts with a knowledgeable appraiser with tools and resources

Data from the local market to show the market accepts these features and

Data to support value opinions

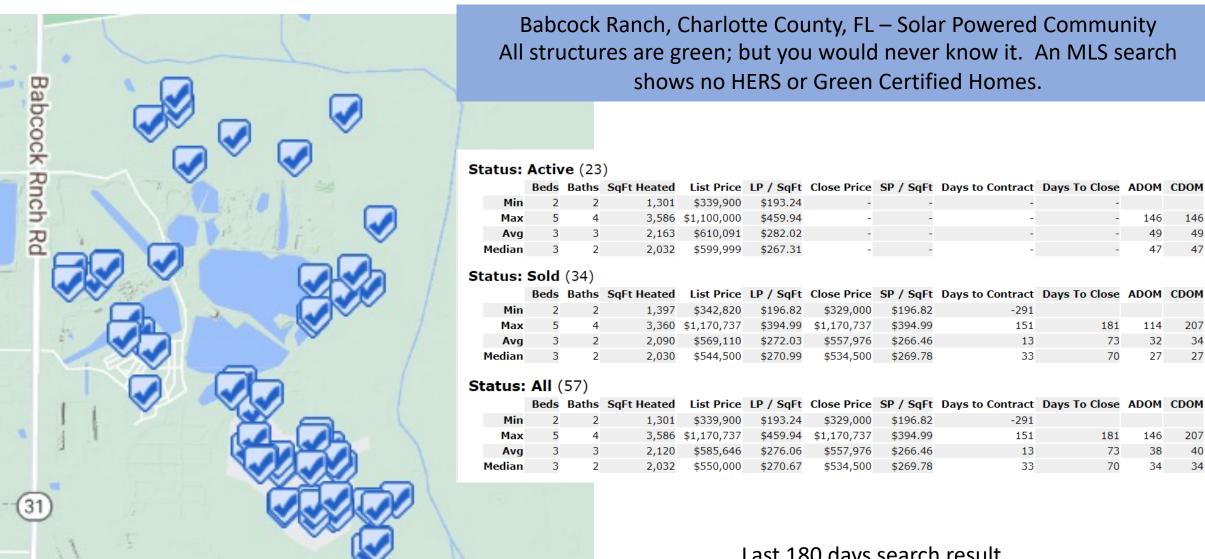
Energy and green features must be visible in the data!

Energy-Star Custom Home: Beautifully finished & meticulously maintained Colonial home offers an amazing location in the desired Stratford Crossing neighborhood w/ velvety lawns, two patios & plenty of room to play & entertain family & friends. Award-winning builder designed & crafted the custom house in 2015 w/ over \$100k of tastefully selected high-end upgrades, spacious light-filled rooms & finished lower level with direct access to a garden terrace. Gorgeous double-story hall flows to a formal living and dining room, wonderful family room w/gas fireplace & large breakfast room w/beverage & coffee station. Amazing gourmet Kitchen inspires the chef with its stainless-steel appliances & a large center island for entertaining guests. Expansive windows & doors bring in abundant natural light and views of nature on every level. A unique feature is the main floor bedroom w/full bathroom. A tiled mudroom, walk-in pantry, large coat closet, half bath plus a 3-car garage complete the 1st floor. Wainscot-panel walls on staircase and balcony raises the bar for elegance in a primary bedroom suite w/fireplace, massive walk-in closet/dressing room & lovely master bathroom complete w/ quartz countertops, dual vanity, soaking tub and spa shower. Three more bedrooms, 2 full bathrooms, enormous playroom/homework room & large laundry room upstairs; game/media room, built-in bar, gym & full bathroom in 900 sq. ft. walk-out garden level. Access to open space & walking trails are so close by!

Confidential Agent Remarks

Home is Energy efficient with a high HERS standard: 50% more efficient than a comparable home built according to the current building standard. Those were upgrades when being built: high-efficiency energy star gas furnace, 4 zones for Heating and A/C, extra insulation, fresh air intake system, Generac Generator & more Average monthly utility costs: \$150 gas, \$180 electricity All bedrooms on 2nd floor have walk-in closet!

Source: CT MLS Sold Listing



Last 180 days search result

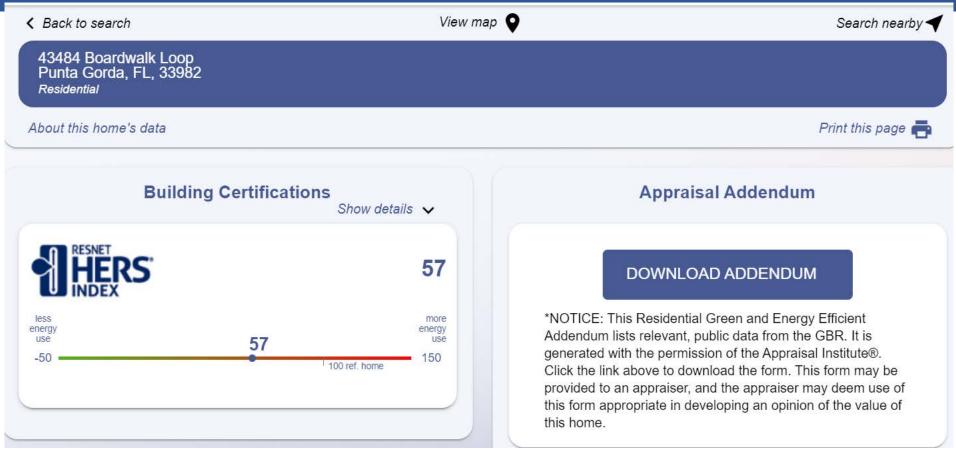
Babcock Ranch Green Homes

1,767 results

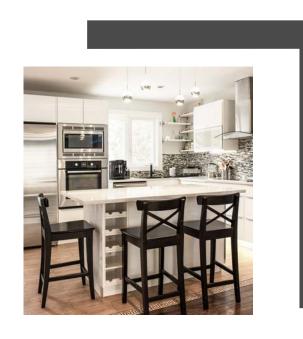
https://us.greenbuildingregistry.com/green-homes



Babcock Ranch Property Details



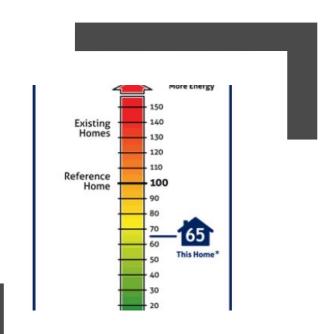
https://us.greenbuildingregistry.com/green-homes/FL10178310





What are the best investments for a homeowner to make?







How do agents and homeowners communicate those improvements to potential buyers, appraisers, and lenders?

| Use | Use the Appraisal Institute Residential Green and Energy Efficient Addendum (AIRGEEA) |
|---------|---|
| Attach | Attach the AIRGEEA to the sales contract and to the MLS Listing |
| Present | Present the AIRGEEA to the appraiser at the time of inspection |
| Educate | Educate the buyer on the importance of communicating the importance of a knowledgeable appraiser for this home with special features at time of mortgage application. |

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How does a homeowner communicate these investments to the market?

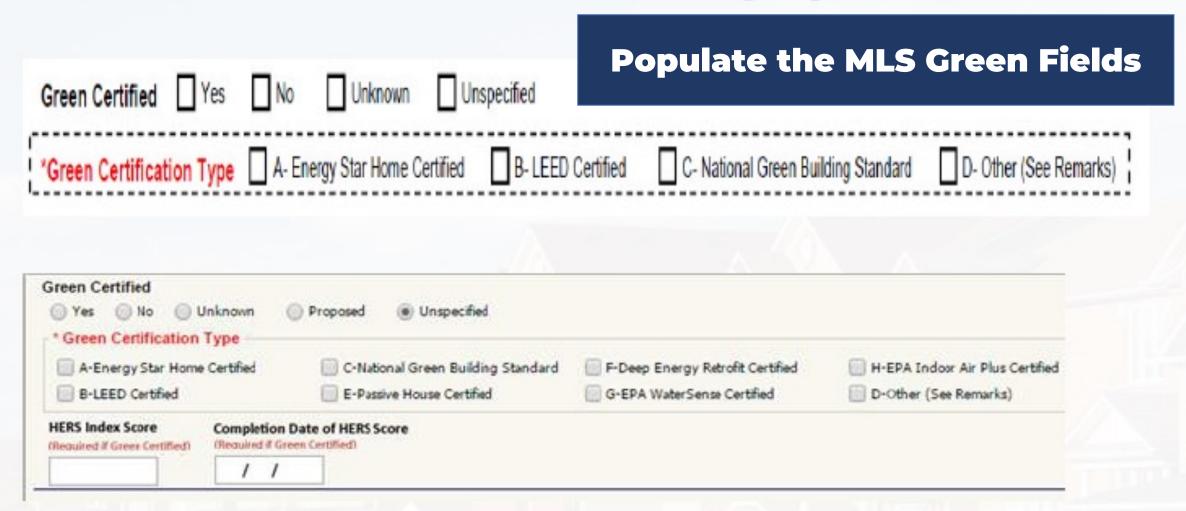
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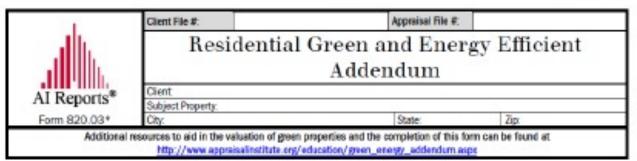
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| Rating (0 to 15 | 50): | Energy Savings includes electricity, heating & Cooling. | | |
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| ☐ Projected R | ating | code home per square foot. HERS Index Repo | rt estimates energy cost based on | |
| ☐ Confirmed | Rating | number of bedrooms plus one. Only a "confirmed rating" is a diagnostic test. | | |
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| Score | | Energy Savings includes electricity, heating & | & Cooling. | |
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https://www.appraisalinstitute.org/assets/1/7/ResidentialGreenandEnergyEfficientAddendum.pdf

Invisible Real Estate Assets: Listing Agents

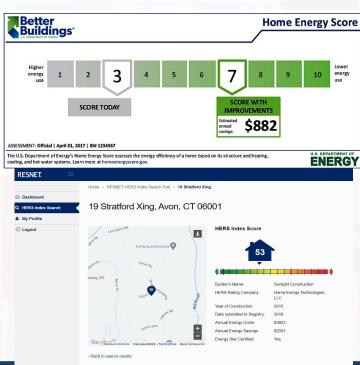


Documents that make the invisible – visible; Resources for Appraisers and Agents











This first things flat hybridge or the common for the rest of the analysis for the range assessed



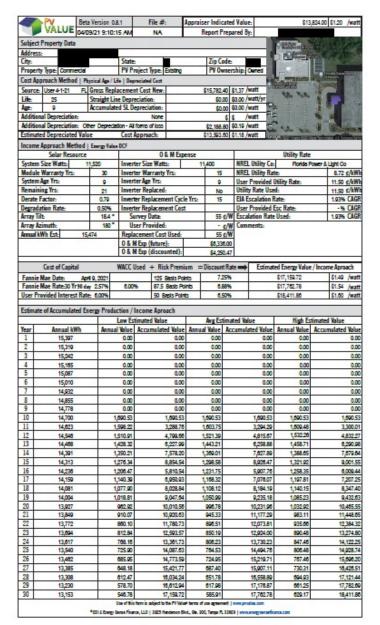
Solar PV Value

- Only owned solar PV without a solar loan/UCC filing can be included in the real estate value for mortgage lending.
- A leased system, power purchase agreement, or solar loan with UCC filing are personal property and not part of real estate.

Free Tool for Valuing Solar



https://www.pvvalue.com/



https://www.pvvalue.com/

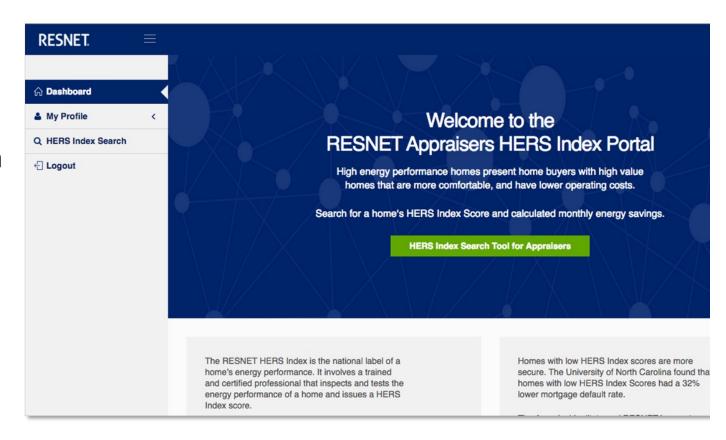
AIRGEEA Solar Page Gives Inputs for PV Value – Discounted Cash Flow of Energy Produced

| Solar Panels | | | | |
|---|---|--|--|--|
| The following ite | ms are considered within the appraisal analysis of the subj | ect property: | | |
| | Solar Photovoltaic (Electric) System | | | |
| | Array # | Array # (if applicable) | | |
| Type of Ownership | □ Leased □ Owned □ * Solar Loan with UCC Filing □ Power Purchase Agreement (PPA) If solar loan has UCC Filing, it is considered personal property and should not be included in market value. | □ Leased □ Owned □ Solar Loan □ UCC Filing □ Power Purchase Agreement (PPA) | | |
| Panel Specifications | System Size:kW (1kW = 1000 Watts) Year Installed: II:kWh Source of Energy Source of Energy Production Estimate: | System Size:kW (1kW = 1000 Watts) Year Installed:kWh Source of Energy Production Estimate: | | |
| | Manufacturer: Warranty on Panels: | Manufacturer: | | |
| Array Placement Affects energy production. *Orientation | ☐ Fixed Mount ☐ Tracking Mount Tilt / Slope: "Azimuth: | Tilt / Slope: | | |
| Inverter Specifications | Number of Inverters per Array: Year Installed: Wattage: Manufacturer: Warranty Term: years | Number of Inverters per Array: Year Installed: Wattage: Manufacturer: Warranty Terms: years | | |
| Energy Storing Batteries | Battery Type: D Lithium-ion D Lithium-ion Polymer D Let Manufacturer: Storage Capacity: Warranty Term: years Year Installed: | kWh | | |
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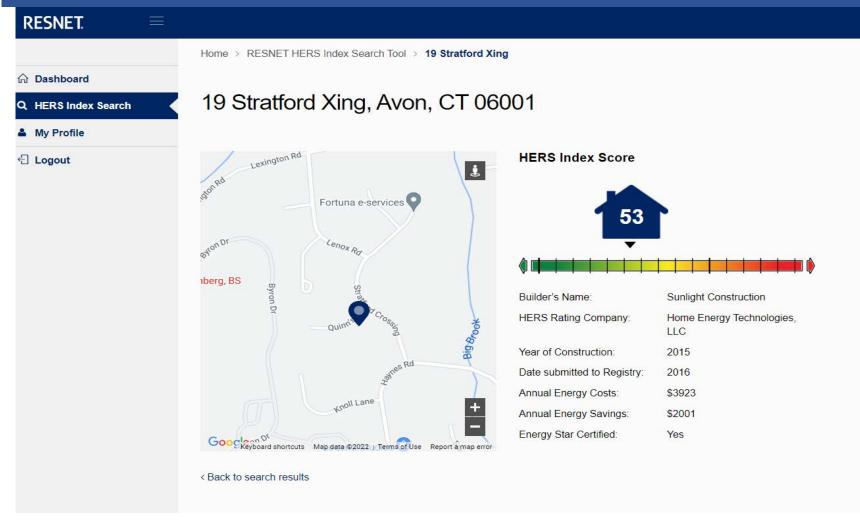
The Appraiser Portal

- Available to all licensed appraisers and free
- Launched in March of 2018
- More than 3,600 appraisers with access
- To register send an email to info@resnet.us

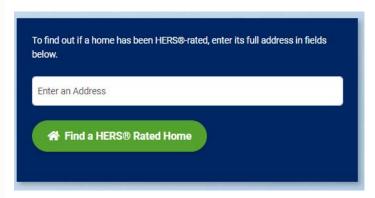


https://portal.resnet.us/

MLS Listing and Verification of the Energy Features through RESNET



https://www.hers index.com/hersrated-homesearch/



Public access to HERS Rated homes

Merging the MLS Sales with RESNET Rated Homes gives data to support value opinion using pairings.

HERS Rated Sales

| Identifier | Sale Price | GLA/SF | HERS Rating |
|-------------------|------------|--------|----------------|
| 1. | \$575,000 | 1,895 | 56 |
| 2. | \$635,000 | 2,100 | 54 |
| 3. | \$595,000 | 1,995 | 45 |
| 4. | \$560,000 | 1,795 | 52 |
| 5. | \$625,000 | 2,225 | 55 |
| Avg Sale Price | \$598,000 | 2002 | 52 |

No HERS Rating

| Identifier | Sale Price | GLA/SF |
|-------------------|------------|--------|
| 1. | \$570,000 | 1,825 |
| 2. | \$585,000 | 1,900 |
| 3. | \$625,000 | 2,100 |
| 4. | \$555,000 | 1,765 |
| 5. | \$615,000 | 2,250 |
| Avg Sale Price | \$590,000 | 1968 |

\$8,000 attributed to Energy Efficiency or 1.36%

Fall of 2019 Release

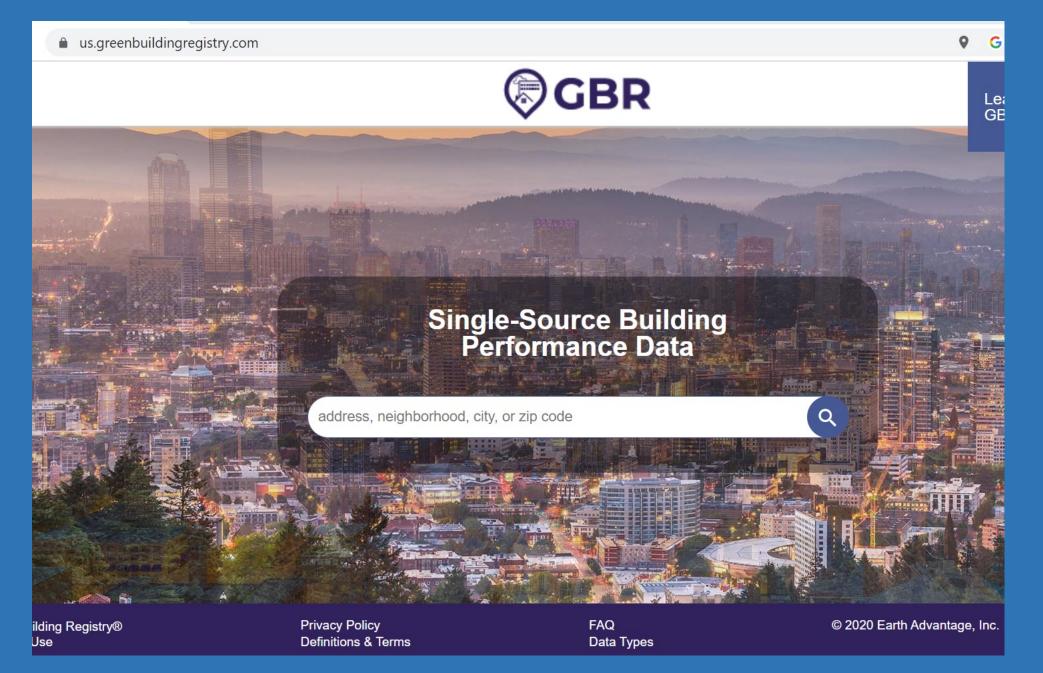
New White Paper by Freddie Mac

Summary of Findings

Using a national random sample, we conducted an analysis of energy-efficient homes rated between 2013 and 2017 and found:

- From the property value analysis, rated homes are sold for, on average, 2.7% more than comparable unrated homes
- Better-rated homes are sold for 3-5% more than lesser-rated homes.
- From the loan performance analysis, the default risk of rated homes is not, on average, different from unrated homes, once borrower and underwriting characteristics are considered.
- Loans in the high debt-to-income (DTI) bucket (45% and above) that have ratings, however, appear to have a lower delinquency rate than unrated homes.

• Source: *Energy Efficiency: Valued Added to Properties and Loan Performance*, Freddie Mac, Dated October 2019 https://sf.freddiemac.com/articles/insights/energy-efficient-home-improvements-can-increase-home-value



Can the buyer finance the additional costs for energy/green features?

Fannie Mae and Freddie Mac Selling Guidelines require the appraiser to describe the energy/green features and analyze the market's reaction in the sales transaction. VA Pamphlet addresses energy efficiency features and allows buyer to finance \$6,000 over the mortgage amount without an appraisal to make energy upgrades.

FHA has an Energy Efficient Mortgage and the Handbook addresses identifying these features and analyzing them in the appraisal.



Home / News / Inflation Reduction Act of 2022

Inflation Reduction Act of 2022

Might this be a driver for energy efficient upgrades?

Form **5695**Department of the Treasur Internal Revenue Service

Residential Energy Credits

Go to www.irs.gov/Form5695 for instructions and the latest information.

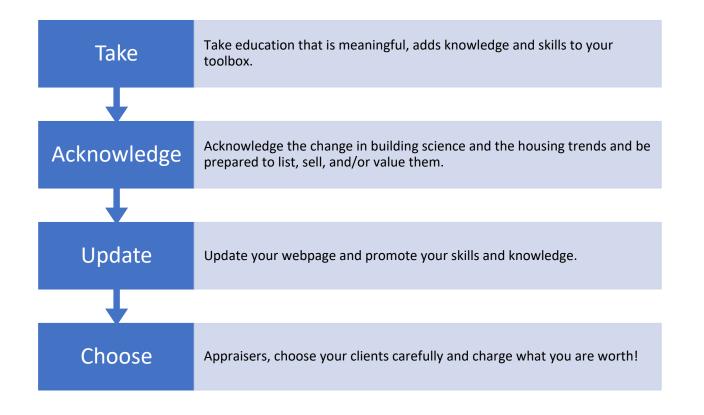
Attach to Form 1040, 1040-SR, or 1040-NR.

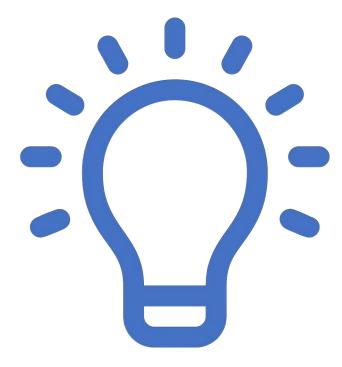
OMB No. 1545-0074

2022
Attachment Sequence No. 158

https://www.irs.gov/inflation-reduction-act-of-2022

Take steps to ensure your future as a real estate professional.





Energy Efficient, Green Homes, Homes with Accessory Dwelling Units, and Solar PV Homes need valuation professionals with knowledge & tools.

•Al Green Registry Course Requirements

Valuation of Sustainable Buildings Registry

Residential Series Commercial Series Introduction to Green Buildings: Introduction to Green Buildings: Principles & Concepts Principles & Concepts (classroom/online) (classroom/online) **Case Studies in Appraising Green** Residential Buildings **Practical Applications in Appraising Green Commercial Properties** (classroom/online) **Case Studies in Appraising Green** Commercial Buildings (online) **Residential & Commercial Valuation Residential & Commercial Valuation** of Solar of Solar (classroom/online) (classroom/online) https://www.appraisalinstitute.org/assets/1/7/Green FAQs.pdf

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Appraisal Institute Green Appraiser Registry

Take the class and pass the exam.

Your name goes onto the registry.

You do NOT have to be an Appraisal Institute member.

Become a GREEN Designated Agent

Member Benefit

The Center for REALTOR® Development, in partnership with NAR REALTOR Benefits®, offers you a 10% discount on the online course for NAR's GREEN designation course, People, Property, Planet, Prosperity.

Discount/Offer Code: **GREENNOW**. Code must be applied at the time of purchase.



Get the offer 🛂

https://www.nar.realtor/realtor-benefitsprogram/education/nars-green-designation-course-discounts Understand resourceefficient homes and how to market them with NAR's Green Designation.





RESNET.US Appraisal Portal - https://portal.resnet.us/

Green Building Registry - https://us.greenbuildingregistry.com/

Accessible data sources

Al Residential Green and Energy Efficient Addendum

PV Value - https://www.pvvalue.com/

National Green Building Standard – NGBS Open Data - https://www.homeinnovation.com/ngbsgreenstats

Florida Green Building Coalition - https://www.floridagreenbuilding.org/index.cfm/go/public.certifiedProjects





Sandra K. Adomatis, SRA, LEED Green Assoc., GREEN 2023 Appraisal Institute President Elect E-mail: Sadomatis@appraisalinstitute.org









