			Г					
	Client		_	Appraisal				
	Residential Green and Energy Efficient Addendum							
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AI Reports	<u>R</u> )	тторену.		Chahai		7:		
Form 820.07*	City.			State:		Zip:		
Additional resources to aid in the valuation of green properties and the completion of this form can be found at <a href="http://www.appraisalinstitute.org/education/green_energy_addendum.aspx">http://www.appraisalinstitute.org/education/green_energy_addendum.aspx</a>								
<ul> <li>has been considered in the appraiser's development of the appraisal of the subject property only for the client and intended user(s) identified in the appraisal report and only for the intended use stated in the report.</li> <li>is not provided by the appraiser for any other purpose and should not be relied upon by parties other than those identified by the appraiser as the client or intended user(s) in the report.</li> <li>is the result of the appraiser's routine inspection of and inquiries about the subject property's green and energy efficient features. Extraordinary assumption: Data provided herein is assumed to be accurate and if found to be in error could alter the appraiser's opinions or conclusions. Use of an extraordinary assumption may affect the assignment results.</li> <li>is not made as a representation or as a warranty as to the efficiency, quality, function, operability, reliability or cost savings of the reported items or of the subject property in general, and this addendum should not be relied upon for such assessments.</li> <li>Green Building: The practice of creating structures and using processes that are environmentally responsible and resource-efficient throughout a building's lifecycle from siting to design, construction, operation, maintenance, renovation, and deconstruction. This practice expands and complements the classic building design concerns of economy, utility, durability, and comfort (US EPA). High performance building and green building are often used interchangeably.</li> <li>isk Elements of Green Building: A green building has attributes that fall into the six elements of green building known as (1) site, (2 water, (3) energy, (4) materials, (5) indoor environmental quality, and (6) maintenance and operation. The energy and water elements are the most measurable elements of green or high performance housing. Appraisers need savings amounts to develop an encome approach to support energy efficient contributory value.</li> </ul>								
THIRD-PARTY VER	IFICATIONS (	(See types	defined in glossary	/).				
The following verified			nin the appraisal analys					
Green Certification	Environmenta Energy Depart		n Agency (EPA): ):		rgy Ready Home (Z	ense		
Certifications attest that the home meets certain minimum thresholds.	Home Innovat Living Building Passivhaus Sta Passive House USGBC LEED:	ne Innovation Research Labs NGBS Home Remodel ne Innovation Research Labs NGBS New Home: ng Building Challenge (LBC): sivhaus Standard: sive House Institute US: BBC LEED:			Bronze			
	Other: Date Verified:	Green Cer Organizati	tification Version: on URL:		ABOVE VALID OF □ Verification at □ Verification at			
Energy Label	RESNET'S HER		Estimated energy savi			h rate dated//		
Rating (0 to 150):   Energy Savings includes electricity, heating & Cooling.  Score below 100 indicates energy costs are expected to be lower than code home per square foot. HERS Index Report estimates energy cost in number of bedrooms plus one. Only a "confirmed rating" is a diagnost					gy cost based on			
	DOE's Home Energy Score Score (1 to 10):  Official Score Unofficial Score		Estimated energy savings for this home: \$_Energy Savings includes electricity, heating a Score above five indicates energy costs are a home. Home Energy Score estimates energy rates and the home's energy features.		/year¢kWh rate dated// & Cooling. expected to be lower than average local y cost based on state average energy			
	Other Energy Range (		Estimated energy savi Describe energy label		kWh rate dated//			
	Date Verified: //	ified: Organization URL:   www.resnet.us/			ABOVE VALID ONLY IF CHECKED:  ☐ Verification reviewed on site ☐ Verification attached to this rep			
Verified Energy Improvements	Explain energy Cost of impro							
Only include improvements with verified	Date Verified:	rified: Organization URL: Other: Urling Office Urling Offi				eviewed on site		
documentation.		□ <u>energys</u>	tar.gov/homeperforma	itle:	☐ Verification at	tached to this report		

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Subject Property:						Appraisal I	File #:		
EFFICIENCY FEAT	URES (Water, Ene	rgy, and E	nvironmeı	ntal. S	ee types d	efined in g	lossary).		
The following items are considered within the appraisal analysis of the subject property:									
Insulation	☐ Fiberglass Blown-In ☐ Foam Insulation ☐ Cellulose ☐ Fiberglass Batt Insulation								
	□ R-ValueWallCeiling □ Other (Describe):								
Building Envelope	Envelope Tightness: Unit:CFM25 CFM50 ACH50 ACH natural								ACH natural
	Instructions: Insert the rating as a number that could be 0.5 to 7ACH50 or higher. The lower the number, the more air tight the envelope. Building Codes for area show maximum Envelope Tightness allowed based on the								
	climate zone. Not a	-	_			://bcap-energ	gy.org/		
Windows	☐ ENERGY STAR®	□ Low E	☐ High Im	pact	☐ Storm	☐ Doub ☐ Triple		☐ Tinted	☐ Solar Shades
Day Lighting	☐ # Of Skylights:				(% Of lighting				
ENERGY STAR®	ENERGY STAR®: ☐ D Energy Source: ☐ P		☐ Refriger☐ Electric		☐ Washer/Dr ☐ Natural Ga	ryer 🗆 Othe			
Appliances	Note: ENERGY STAR	-					zı		
Water Heater	☐ ENERGY STAR®	Size: ☐ Tankles		□ Sc	olar (next pag	ge) 🗆 Hea	it Pump	☐ Coil	
HVAC & Related	☐ High Efficiency H\		☐ Heat Pu	mp	Thormostat	/Controllers?	)	□ Yes	□ No
Equipment	SEER:		Efficiency			ble Thermos		☐ Yes	
Describe in	Efficiency Rating: AFUE*	% %	Rating: COP:		Auxiliary he			□ Yes	_
comments area.	*Annual Fuel-Utiliza		HSPF:		Radiant Floo Geotherma			☐ Yes ☐ Yes	_
	Efficiency		SEER:	_		icle Ready? (	car charge		□ No
Indoor	☐ Energy (ERV) or H	eat Recover	EER:	(HR\/)			□ Non T	oxic Pest Co	ntrol
Environmental	=		-		e (See glossa	ary)		n System:	offici Of
Quality	☐ Other Measured Whole-House Ventilation Device (See glossary) ☐ Radon System: ☐ Humidity Monitoring Device installed ☐ Active ☐ Passive								
	☐ Reclaimed Water System (Describe): ☐ Rain Barrels Used in Irrigation								
Water Efficiency	☐ Greywater reuse system Cistern size: gallons								
Utility Costs	□ Water Saving Fixtures       Location of cistern:         Annual Utility Cost: \$/year, based on:// to// (full year).       # Of Occupants:         Includes (check all that apply): □ Electric □ Heating □ Water □ Other:								
Comments	If a property is built							and analys	is to value
Include source for	the features. The m	_	•		•	• •	•	•	
information	analysis of its label a	-							
provided in this section.	building code. This document is intended for new construction or existing homes that have been retrofit to								
	include higher energy or green features.								
-	s Addendum is to sta					_		-	-
Identifying the features not found on the appraisal form provides a basis for comparable selection and analysis of the features. Builders, contractors, homeowners, and third party verifiers are encouraged to complete this Addendum and present to									
appraisers, agents, lenders, and homeowners. Complete the pages that apply to the property appraised and provide to									
appraiser prior to the completion of an appraisal. Provide the Addendum to the lender at the time of loan application to assist									
them in understanding the property type so an appraiser with sufficient knowledge of this property type will be engaged to provide an appraisal to meet secondary mortgage market guidelines.									
provide an appraisar to meet secondary mortgage market guidennes.									
Campulatadi				<del></del> 1			_	\a.b.a.	
Completed by:				Title	2:		[	oate:	

Client File #:

Client:

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<b>Subject Property:</b>	:	Appra	aisal File #:					
Solar Panels								
The following items are considered within the appraisal analysis of the subject 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		Owned DS		JCC Filing			
	property and should not be included in market value.	+						
Panel Specifications	System Size: kW (1kW = 1000 Watts) Year Installed: II: Energy Production: kWh Source of Energy Source of Energy Production Estimate:	nstalled:   II: Energy Production: Year Installed: kWh Source of Energy Energy Production:						
	Manufacturer: years	Manufacturer: years						
Array Placement Affects energy production. *Orientation	☐ Fixed Mount ☐ Tracking Mount Tilt / Slope: *Azimuth:	Tilt / Slope: Azimuth:						
Inverter Specifications	Number of Inverters per Array: Year Installed: watts Manufacturer:	Number of Inve Year Installed: _ Wattage: Manufacturer: _			watts			
	Warranty Term:years	iis warranty remi.			years			
Energy Storing Batteries								
Name of Utility		Charge / kWh	\$	/ kWh				
Company:		from Utility						
	Solar Thermal Water Heati	ing System	Т					
Type of System	Active: □Direct □ Indirect  Passive: □ Integral collector □ Thermo-syphon	Storage Tank Size	Gallons:					
Collector Type	☐ Flat-Plat ☐ Integral ☐ Evacuated-Tube Solar	System Age	Year Installed:		-			
Back-Up System	☐ Conventional Water Heater ☐ Tankless On Demand ☐ Tankless Heat Pump	Warranty Term						
Solar Energy Factor (SEF)	*Rating ranges 1 to 11. Higher number is more efficient.	Manufacturer						
	Proposed Solar Instal	lation						
	Roof Shape: ☐ Pitched ☐ Flat ☐ Rounded ☐ Multiple Rafters: ☐ Typical ☐ Engineered Wood Trim ☐ Rough Sawn ☐ Structured Insulated Panel Roof ☐ Metal ☐ TJI Rafters Decking: ☐ No decking ☐ Plywood ☐ Tongue & Groove ☐ OSB ☐ Skip sheathing/Purlin ☐ Structured Insulated Panel Slope/Roof Pitch:							
	(Attach photograph of inside of electrical panel and door closed and a picture of three feet back to show space around the main service panel (and subpanel))  Red flag – □ Gas line within 3' of electrical panel □ More than 3 layers of roof covering □ Wood Shake Shingles □ Composition Shingle over Wood Shake □ Tile Roof Without Decking □ Composition Shingle less than 2:12 pitch □ Roof section over 12:12 pitch □ Unpermitted structure/addition □ Metal Trusses □ No permanent foundation □ Carport may not be structurally sound □ SIP Roofing may not be structurally sound □ Open/No walls (Patio)							
Completed by:			D	ate:				

Client File #:

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Subject Property:				Appraisa	l File #:	
Location - Site						
The following items are	considered within the a	appraisal ana	lysis of the subject pr	operty:		
Walk Score	Score:	Source: 🗆 🗈	nttp://www.walkscor	e.com □ Oth	er:	
Public Transportation	☐ Bus Distance:	Blocks	☐ Train: Distance:	Blocks	☐ Subway Distand	ce: Blocks
Site	Orientation (front face		Landscaping: ☐ Water Efficient	□ Natural □	] Pond/Lake on site	Rain Garden
Comments						
Incentives – Amoun						
The following items are	considered within the a	appraised val	ue of the subject pro	perty and <b>base</b>	d on effective date	of value.
Federal						
State						
Local						
Comments	Incentives offset cost Clearly identify the incentives are typicall the property and are available as of the dat to offset repairs or de properties can be fou	centives that y not a sales not paid by tl e of value sh ferred maint	offset the gross cost concession in sales cone seller. Incentives a ould be addressed in enance items as well.	of construction omparison appr are typically for the appraisal p	to meet appraisal oach since they do a specified period rocess. Incentives	standards. not transfer with and only those may be available
present to app to complete th  • Attach this con	g the features not for	and third pers, and hom t builder, co	appraisal form prov earty verifiers are en neowners. Appraise entractor, or third p	vides a basis for acouraged to course typically do arty verifier do actiont detail or	complete this Add not have sufficience occumentation.	endum and ent information
<ul> <li>Complete the pages that apply to the property appraised and provide to appraiser prior to the completion of an appraisal.</li> <li>Provide the Addendum to the lender at the time of loan application to assist them in understanding the property type so an appraiser with sufficient knowledge of this property type will be engaged to provide an appraisal to</li> </ul>						
• • • • • • • • • • • • • • • • • • • •	y mortgage market g	uidelines.		e will be enga		

Client File #:

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Client:	Client File #:	
<b>Subject Property:</b>	Appraisal File #:	

## Residential Green and Energy Efficient Addendum Additional Resources

**Appraised Value and Energy Efficiency: Getting it Right.** This document provides links to resources in understanding the secondary mortgage market guidelines on appraisals of energy efficient and green features. It addresses the following:

- What can builders do?
- For Buyers: Assuring a competent appraiser for your home
- For Lenders: A sample letter that should be completed and provided to the lender at the time of mortgage application alerts the lender to the special features that requires an appraiser with knowledge of the property type.

https://www.appraisalinstitute.org/assets/1/29/AI-BCAP Flyer.pdf

**Residential Green Valuation Tools.** A textbook resource for completing the AI Residential Green and Energy Efficient Addendum is available. It can be purchased at the following website: <a href="http://www.appraisalinstitute.org/residential-green-valuation-tools/">http://www.appraisalinstitute.org/residential-green-valuation-tools/</a>

## **Glossary**

ASHRAE 700 / ICC National Green Building Standard (NGBS): An ANSI-approved residential green building standard developed by the National Association of Home Builders (NAHB) and the International Code Council (ICC). It is applicable to single and multifamily projects, renovations and additions and residential land development. To comply, all buildings must incorporate sustainable lot development techniques and address energy, water & material resource efficiency and indoor environmental quality. Also, all owners must be educated about building operation and maintenance. <a href="https://www.nahb.org/en/research/nahb-priorities/green-building-remodeling-and-development/icc-700-national-green-building-standard.aspx">https://www.nahb.org/en/research/nahb-priorities/green-building-remodeling-and-development/icc-700-national-green-building-standard.aspx</a>

**Building Envelope:** The building envelope is everything that separates the building's interior from the exterior. This includes the foundation, exterior walls, roof, doors and windows. The envelope rating should be compared to the local building code requirements for this rating to identify a structure that exceeds the building code.

**Energy Recovery Ventilation System (ERV) or Heat Recovery Ventilators (HRV):** These systems provide fresh air without wasting all the energy already used to heat the indoor air. By recovering sensible (heat) or latent (moisture) energy from the stale indoor air, they offer fresh air ventilation with reduced energy loss.

**ENERGY STAR Certified New Homes**: EPA's ENERGY STAR certified homes are independently verified to be at least 15 percent more efficient that code-built homes, and include additional energy efficiency measures that can deliver savings of up to 30 percent compared to standard new homes. More than just a collection of ENERGY STAR products, an ENERGY STAR certified home includes a comprehensive package of energy efficiency systems and features that work together to deliver better performance, including a High-Efficiency Heating & Cooling System, a Complete Thermal Enclosure System; a Water Protection System; and Efficient Lighting & Appliances. <a href="https://www.energystar.gov/newhomes">www.energystar.gov/newhomes</a>

**ENERGY STAR Products:** Behind each blue label is a product, building, or home that is independently certified to use less energy and cause fewer of the emissions that contribute to climate change. Today, ENERGY STAR is the most widely recognized symbol for energy efficiency in the world. In order to earn the label, ENERGY STAR products must be third-party certified based on testing in EPA-recognized laboratories. In addition to up-front testing, a percentage of all ENERGY STAR products are subject to "off-the-shelf" verification testing each year. The goal of this testing is to ensure that changes or variations in the manufacturing process do not undermine a product's qualification with ENERGY STAR requirements. <a href="https://www.energystar.gov/about/origins\_mission">https://www.energystar.gov/about/origins\_mission</a>

**Geothermal:** A geothermal heat pump uses the constant below ground temperature of soil or water to heat and cool your home. <a href="http://energy.gov/energysaver/articles/geothermal-heat-pumps">http://energy.gov/energysaver/articles/geothermal-heat-pumps</a>

HERS Index: The Home Energy Rating System (HERS) Index is an industry standard by which a home's energy efficiency is measured. It's also the nationally recognized system for inspecting and calculating a home's energy performance. A qualified third party certifier assesses the house based on its physical characteristics. The energy estimates from this assessment may vary depending on the lifestyle of the occupants, increasing utility expenses, and changes in the maintenance or characteristics of the energy features. There are three rating types: sampling rating, projected rating, and confirmed rating. A Sampling Rating is an application of the Home Energy Rating process whereby fewer than 100% of a builder's new homes are randomly inspected and tested to evaluate compliance with a set of threshold specifications. A Projected Rating: A Rating Type that encompasses one individual dwelling or dwelling unit and is conducted in accordance with Section 5.1.4.3.1 through 5.1.4.3.5 of the ANSI/RESNET/ICC Standard 301. A Confirmed Rating is a rating type that encompasses one individual dwelling or dwelling unit and is conducted in accordance with Sections 5.1.4.1.1 through 5.1.4.1.3. More information: <a href="http://www.resnet.us/hers-index">http://www.resnet.us/hers-index</a>. The ANSI standard utilized in the HERS Index is posted at <a href="http://codes.iccsafe.org/app/book/content/PDF/ICC%20Standards/ICC">http://codes.iccsafe.org/app/book/content/PDF/ICC%20Standards/ICC</a> 301-2014/ICC RESNET 301.pdf.

Home Energy Score (HES): The Home Energy Score, developed and managed by the U.S. Department of Energy (DOE), is a national system that allows homes to receive an energy rating, like the MPG rating available for cars. The Home Energy Score uses a 10-point scale to reflect how much energy a home is expected to use under standard operating conditions. The Home Energy Score uses a standard calculation method and considers the home's structure and envelope (walls, windows, foundation) and its heating, cooling, and hot water systems. Only Assessors who pass DOE's Simulation Training can provide the Home Energy Score.

www.HomeEnergyScore.gov

**Indoor airPLUS**: EPA's Indoor airPLUS is a voluntary EPA label for new homes that integrate a set of construction practices and technologies to reduce indoor air pollutants and improve the indoor air quality in a new home beyond minimum code requirements. It is only available to homes that first meet ENERGY STAR® Certified Home requirements. <a href="https://www.epa.gov/indoorairplus">https://www.epa.gov/indoorairplus</a>

**LEED:** Leadership in Energy and Environmental Design is a green certification program created by the U.S. Green Building Council (USGBC). As an internationally recognized mark of excellence, LEED provides building owners and operators with a framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions. <a href="http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1988">http://www.usgbc.org/DisplayPage.aspx?CMSPageID=1988</a>

**Living Building Challenge:** Created by the Living Future Institute, the Living Building Challenge is the world's most rigorous proven performance standard for buildings. People can use the regenerative design framework to create spaces that, like a flower, give more than they take. Living Building Challenge certification requires actual rather than modeled performance. Therefore, projects must be operational for at least twelve consecutive months prior to evaluation. <a href="https://living-future.org/lbc/basics/">https://living-future.org/lbc/basics/</a>

**Low E:** "Low emissivity" indicates a coating is added to the glass surface. The coating allows visible light to pass through the glass while stopping radiant heat energy from entering the building by passing through the glass. Approximately 40% of the sun's harmful ultra violet rays are blocked and insulation enhanced. <a href="https://energy.gov/energysaver/energy-efficient-windows">https://energy.gov/energysaver/energy-efficient-windows</a>

NGBS Small Project Remodel: Run by the Home Innovation Research Labs, this program certifies whole house and small project remodels as energy efficient. Unlike the Whole–House Remodel, the Small Project certification is prescriptive. Chapter 12 of the National Green Building Standard includes a list of mandatory practices, related to materials use, sustainable products, energy efficiency, and indoor environmental quality. A Home Innovation Accredited NGBS Green Verifier gives a final inspection to verify Small Project certification. During inspection, the Verifier will ensure the applicable practices have been met. <a href="http://www.homeinnovation.com/services/certification/green homes/remodeling certification/remodel home certification process">http://www.homeinnovation.com/services/certification/green homes/remodeling certification/remodel home certification process</a>

**NGBS Whole Home Remodel:** Run by the Home Innovation Research Labs, this program certifies whole house and small project remodels as energy efficient. Certification of a whole-building remodel requires demonstrating that there has been a minimum of a 15% reduction in energy consumption and at least a 20% reduction in water consumption over the pre-remodel condition. There are some mandatory practices that must be met. A minimum number of points must be obtained from practices related to Lot Design, Resource Efficiency, Indoor Environmental Quality, and Homeowner

Education. http://www.homeinnovation.com/services/certification/green homes/remodeling certification/remodel home certification process

Passivhaus Standard: German standard for low energy homes that began in the 1980s. Passivhaus is a rigorous, voluntary standard for energy efficiency in a building, reducing its ecological footprint. It results in ultra-low energy buildings that require little energy for space heating or cooling. The Passive House Institute (PHI) is an independent research institute that has played an especially crucial role in the development of the Passive House concept - the only internationally recognized, performance-based energy standard in construction. <a href="http://passiv.de/en/">http://passiv.de/en/</a>

Passive House Institute US (PHIUS): Buildings designed and built to the PHIUS+ 2015 Passive Building Standard consume 86% less energy for heating and 46% less energy for cooling (depending on climate zone and building type) when compared to a code-compliant building. PHIUS+ 2015 is the first and only passive building standard based upon climate-specific comfort and performance criteria aimed at presenting a cost-optimized solution to achieving the most durable, resilient, and energy-efficient building possible for a specific location. <a href="http://www.phius.org/home-page">http://www.phius.org/home-page</a>

**Passive Solar:** Passive solar is technology for using sunlight to light and heat buildings with no circulating fluid or energy conversion system. <a href="http://rredc.nrel.gov/solar/glossary">http://rredc.nrel.gov/solar/glossary</a>. A complete passive solar building design has the following five elements: (1) aperture (collector) (2) absorber (3) thermal mass (4) distribution (5) control. <a href="http://www.nrel.gov/docs/fy01osti/27954.pdf">http://www.nrel.gov/docs/fy01osti/27954.pdf</a>

**Rain Garden:** A rain garden is a depressed area in the landscape that collects rain water from a roof, driveway or street and allows it to soak into the ground. Planted with grasses and flowering perennials, rain gardens can be a cost effective and beautiful way to reduce runoff from your property. Rain gardens can also help filter out pollutants in runoff and provide food and shelter for butterflies, songbirds and other wildlife. More complex rain gardens with drainage systems and amended soils are referred to as bio-retention. <a href="https://www.epa.gov/soakuptherain/rain-gardens">https://www.epa.gov/soakuptherain/rain-gardens</a>

**SEER:** Seasonal energy efficiency ratio - The higher the SEER rating, the more energy efficient the equipment is. A higher SEER can result in lower energy costs. <a href="https://energystar.zendesk.com/hc/en-us/articles/212111387-What-is-SEER-EER-HSPF-">https://energystar.zendesk.com/hc/en-us/articles/212111387-What-is-SEER-EER-HSPF-</a>

**Smart House:** A smart house is a home that has highly advanced, automated systems to control and monitor any function of a house – lighting, temperature control, multi-media, security, window and door operations, air quality, or any other task of necessity or comfort performed by a home's resident. <a href="http://architecture.about.com/od/buildyourhous1/g/smarthouse.htm">http://architecture.about.com/od/buildyourhous1/g/smarthouse.htm</a>

Water Heaters: Types are described here: <a href="http://energy.gov/energysaver/articles/solar-water-heaters">http://energy.gov/energysaver/articles/solar-water-heaters</a>.

**WaterSense:** EPA released its Final Version 1.1 WaterSense New Home Specification. This specification will be effective January 1, 2013 and establishes the criteria for new homes labeled under the WaterSense program and is applicable to newly constructed single-family and multi-family homes. <a href="http://www.epa.gov/watersense/new">http://www.epa.gov/watersense/new</a> homes/homes final.html

Whole Building Ventilation System: A whole building ventilation system assists in a controlled movement of air in tight envelope construction. Whole building ventilation equipment is often a part of the forced air heating or cooling systems. There are various methods of providing whole home ventilation including a heat recovery ventilator (HRV) or an energy recovery ventilator (ERV). Four primary types of systems here: <a href="https://energy.gov/energysaver/whole-house-ventilation">https://energy.gov/energysaver/whole-house-ventilation</a>

**Zero Energy Ready Home (ZERH):** To qualify as a DOE Zero Energy Ready Home, a home shall meet certain minimum requirements, be verified and field-tested in accordance with HERS Standards by an approved verifier, and meet all applicable codes. Builders may meet the requirements of either the Performance Path or the Prescriptive path to qualify a home.

http://energy.gov/eere/buildings/zero-energy-ready-home

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