



2015 IECC R-406 Confirmed Energy Rating Index Report

Property

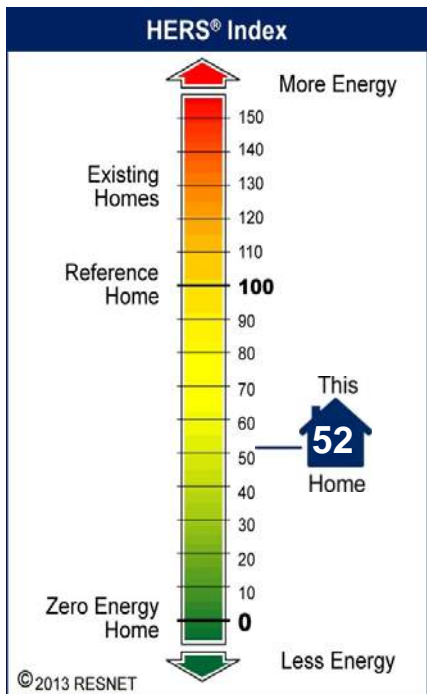
Builder:
Address:

Organization

Company:
Phone:
Rater:

Energy Rating Index Information

Confirmed Rating
Rating No:
Rater ID:
Date Rated:



Estimated Annual Energy Consumption*		
	Rated Home Calculated Energy Use (MBtu)	Rated Home Cost (\$/yr)
Heating		
Cooling		
Water Heating		
Lights & Appliances		
Photovoltaics	-	
Total		

*Based on standard operating conditions

ERI with PV:

ERI without PV:

Annual Estimates	
Electric (kWh):	CO2 Emissions (Tons):
Natural Gas (Therms):	Energy Savings (\$) **: \$

**Based on the 2015 IECC Energy rating Index Reference design Home

Maximum Energy Rating Index:	This Home's Energy Rating Index:	PASS/FAIL
This home MEETS/DOES NOT MEET the Energy Rating Index Score requirement of Section 406 of the 2015 International Energy Conservation Code based on climate zone. In addition to the Energy Rating Index other mandatory measures must be met. (See Mandatory Requirements on second page.)		
Name:	Signature:	
Organization:	Date:	

Rating Provider Data and Seal	
Company:	
Address:	
City, State, Zip:	
Phone #:	
Fax #:	
To determine if a provider is properly accredited go to: www.resnet.us/professional/programs/search_directory	

(Confirmed and tested)

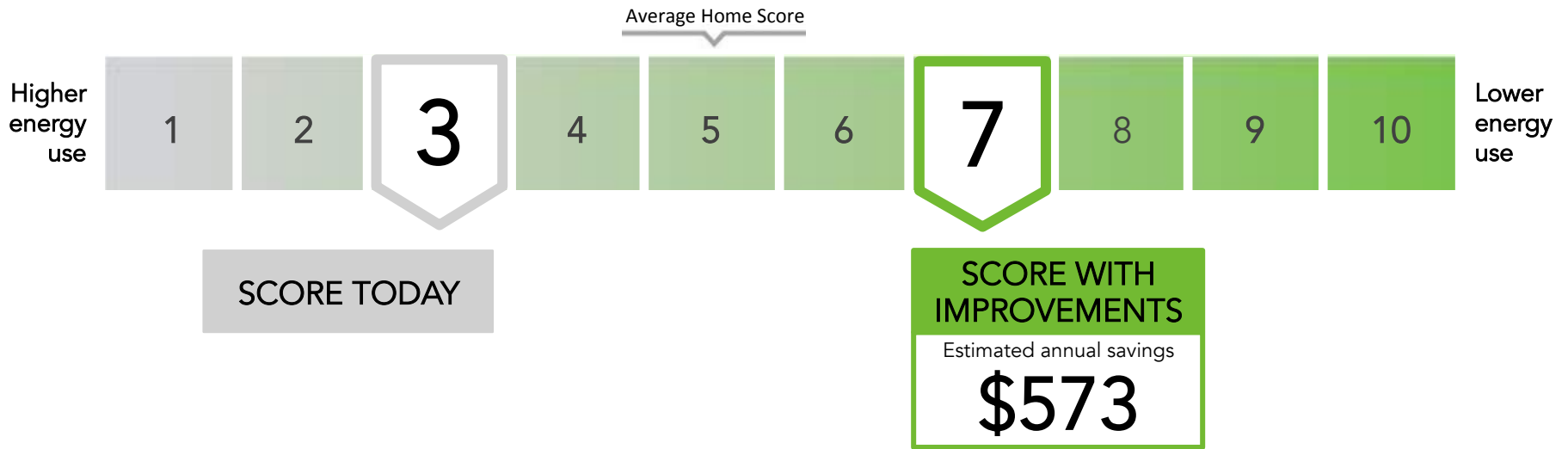
Climate Zone		Mandatory Requirements
Provision Number	Topic	Compliance Decision
2009 IECC Table 402.1.1 or 402.1.3	Building thermal envelope minimum insulation levels and maximum fenestration U-factor and SHGC	PASS/FAIL
R401.3	Post a permanent certificate listing the level of efficiencies installed in the house	Certificate required for CO
R402.4	Envelope air leakage maximum leakage rate	(CZ : 5 ACH50) PASS/FAIL
R402.4.1 / Table R402.4.1.1	Comply with air sealing and insulation requirements in Table R402.4.1.1	Checklist required for CO
R402.4.4	Rooms containing fuel-burning appliances	PASS/FAIL*
R402.5	Maximum fenestration U-factor and SHGC	(U-Factor)PASS/FAIL (SHGC)PASS/FAIL
R403.1.2	Heat pump controls	PASS/FAIL*
R405.2	Ducts outside of conditioned space to be insulated to a minimum of R-6.	PASS/FAIL
R403.3.2	Duct sealing on all ducts	PASS/FAIL*
R403.3.3	Duct testing for ducts in unconditioned space	PASS/FAIL/NANA
R403.3.5	Building cavities not used as ducts.	PASS/FAIL*
R403.5.1	Heated water circulation and temperature maintenance systems comply	PASS/FAIL*
R403.5.3	Hot water pipe insulated to R-3	PASS/FAIL/FAIL
R403.6	Mechanical ventilation meeting the requirements of the IRC or IMC. Outdoor air and exhaust dampers installed	PASS*
R403.7	ACCA Manual J and S conducted for all heating and cooling systems.	ACCA Forms Required for permit
R403.8	Systems serving multiple dwelling units to meet the mechanical requirements of the IECC commercial	PASS/FAIL/Does not apply
R403.9	Snow melt and ice system controls installed where applicable	PASS/FAIL*
R403.10	Pools and permanent spa energy consumption meet requirements for heaters, time clocks and covers	PASS/FAIL*
R403.11	Portable spas meet the requirements of APSP-14.	PASS/FAIL*
R404.1	High efficacy lights installed in 75% of permanently installed fixtures.	PASS/FAIL

* Rater has verified that all systems are in compliance with IECC rules.

12345 Honeysuckle Lane
Smithville, AR 72466

SCORE TODAY **3**

CONDITIONED FLOOR AREA: 1,500 ft²
YEAR BUILT: 1970



The U.S. Department of Energy's Home Energy Score assesses the energy efficiency of a home based on its structure and heating, cooling, and hot water systems. For more information visit HomeEnergyScore.gov.

12345 Honeysuckle Lane
Smithville, AR 72466SCORE
TODAY**3**

Home Facts

The Home Energy Score's Home Facts includes details about the home's current structure, systems, and estimated energy use. For more information about how the score is calculated, visit our website at HomeEnergyScore.gov.

About This Home



ASSESSMENT

Type **Official**
Assessor ID **#1234567**
Scoring tool version **v2016**

HOME CONSTRUCTION

Year built **1970**
Number of bedrooms **3**
Stories above ground level **1**
Interior floor-to-ceiling height **10**
Conditioned floor area **1,500 ft²**
Direction faced by front of house **North**
Air sealed? **No**
Air leakage rate **6,500 CFM50**

Estimated Annual Energy Use



ENERGY BY TYPE

Total **204 MBtus**
Score basis **141 MBtus**
Electricity **11,956 kWh**
Natural gas **519 therms**
Propane **226 gallons**

COST BASIS

Electricity **\$0.091 / kWh**
Natural gas **\$1.153 / therms**
Propane **\$2.171 / gallon**
Energy cost per square foot **\$1.45 / ft²**

DEFINITIONS & CONVERSIONS

MBtu Million British thermal units; generic energy unit
kWh Kilowatt-hour; electricity unit
Therm 100,000 Btu; heat energy unit
Electricity conversion **1 MBtu = 293 kWh**
Heat conversion **1 MBtu = 10 therms**

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Roof / Attic



ROOF / ATTIC 1

Attic floor area 500 ft²
 Roof construction Roof with Radiant Barrier / Composition Shingles or Metal / R-0
 Roof color Medium dark
 Attic: ceiling type Unconditioned attic
 Attic floor insulation R-25

ROOF / ATTIC 2

Attic floor area 1,000 ft²
 Roof construction Standard Roof / Composition Shingles or Metal / R-0
 Roof color Medium dark
 Attic: ceiling type Unconditioned attic
 Attic floor insulation R-9

Foundation



FOUNDATION / FLOOR 1

Floor area 500 ft²
 Foundation type Slab-on-grade foundation
 Foundation walls insulation R-0

FOUNDATION / FLOOR 2

Floor area 1,000 ft²
 Foundation type Unconditioned basement
 Floor insulation above foundation R-0
 Foundation walls insulation R-0

Walls



<u>WALL CONSTRUCTION</u>	<u>TYPE / EXTERIOR FINISH</u>	<u>INSULATION VALUE</u>
Front	Wood frame with Optimum Value Engineering (OVE) / Brick Veneer	R-19
Back	Wood frame / Wood, Asbestos, Fiber Cement, Shingle, or Masonite	R-0
Right	Concrete block or stone / Stucco	R-3
Left	Wood frame with rigid foam sheathing / aluminum siding	R-3

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Windows & Skylights



WINDOW AREA

Front	70 ft ²
Back	90 ft ²
Right	40 ft ²
Left	30 ft ²

<u>WINDOW CONSTRUCTION</u>	<u>PANES</u>	<u>FRAME</u>	<u>GLAZING or U-VALUE & SHGC</u>
Front	Single	Aluminum	Clear
Back	Double	Wood or Vinyl	Solar-controlled low-E
Right	Double	Aluminum w/ thermal break	Insulating low-E, argon gas fill
Left	Triple	Wood or vinyl	Insulating low-E, argon gas fill

SKYLIGHTS ROOF / ATTIC 1

Present?	Yes		
Area	30 ft ²		
Type	Single	Aluminum	Tinted

SKYLIGHTS ROOF / ATTIC 2

Present?	No
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Systems



HVAC SYSTEM 1

Percent conditioned area served **33%**
 Heating type **Electric heat pump**
 Heating efficiency value **7.8 HSPF**
 Cooling type **Electric heat pump**
 Cooling efficiency value **12 SEER**

DUCT SYSTEM 1

	<u>INSULATED?</u>	<u>SEALED?</u>	<u>PERCENT OF DUCTS IN THIS LOCATION</u>
Unconditioned attic	Yes	No	100%

HVAC SYSTEM 2

Percent conditioned area served **67%**
 Heating type **Central gas furnace**
 Heating installation year **2009**
 Cooling type **Central air conditioning**
 Cooling installation year **2009**

DUCT SYSTEM 2

	<u>INSULATED?</u>	<u>SEALED?</u>	<u>PERCENT OF DUCTS IN THIS LOCATION</u>
Unconditioned basement	No	No	50%
Unconditioned attic	No	No	25%
Conditioned space	No	No	25%

HOT WATER

System type **LPG storage**
 Installation year **1997**

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TODAY

3

Recommendations

The Home Energy Score's Recommendations show how to improve the energy efficiency of the home to achieve a higher score and save money. When making energy related upgrades, homeowners should consult with a certified energy professional or other technically qualified contractor to ensure proper sizing, installation, safety, and adherence to code. Learn more at HomeEnergyScore.gov.

REPAIR NOW. These improvements will save you money, conserve energy, and improve your comfort.



- ▶ **Air Tightness:** Have a professional seal all the gaps and cracks that leak air to save **\$110** / year
- ▶ **Ducts 1:** Add insulation around ducts in unconditioned spaces to at least R-6 to save **\$43** / year
- ▶ **Attic 2:** Increase attic floor insulation to at least R-19 to save **\$57** / year
- ▶ **Ducts 2:** Add insulation around ducts in unconditioned spaces to at least R-6 to save **\$23** / year
- ▶ **Ducts 2:** Have a professional seal all the gaps and cracks that leak air to save **\$74** / year

REPLACE LATER. These improvements will help you save energy when it's time to replace or upgrade.



- ▶ **Windows:** Choose those with an ENERGY STAR label to save **\$61** / year
- ▶ **Water Heater:** Choose one with an ENERGY STAR label to save **\$159** / year
- ▶ **Electric Heat Pump:** Choose one with an ENERGY STAR label to save **\$32** / year

Comments



Current local incentives may make this house a good candidate for a new water heater.