

# ENERGY STAR v3.0 Home Report

<b>Property</b>	<b>Organization</b>	<b>HERS</b>
Sherjaque Diaz-Means	BHI-EnergyEfficiencySolutions	Confirmed
1904 Katherine Street	409-697-3360	2024-06-24
Lake Charles, LA 70601	James R. Barfield	Rating
		No:LiveOak1904Katherine
Weather:Lake Charles, LA	<b>Builder</b>	Rater ID:0917800
LiveOak1904Katherine	Lemoine Disaster Recovery	
LiveOak1904Katherine.blg		

## Normalized, Modified End-Use Loads (MMBtu/yr)

	ENERGY STAR	As Designed
Heating	13.0	6.8
Cooling	14.2	8.3
Water Heating	7.7	1.6
Lights and Appliances	22.9	20.9
Total	57.8	37.6
ERI Index of Reference Design Home	72	46 ERI Index w/o PV
ERI Index Target (SAF Adjusted)	72	46 ERI Index
Size Adjustment Factor	1.00	

HERS Index w/o PV <= HERS Index of Reference Design Home AND HERS Index <= HERS Index Target to comply.

## ENERGY STAR v3.0 (Rev 11) Mandatory Requirements

X	Duct leakage at post construction better than or equal to ENERGY STAR v3/3.1 requirements.
X	Envelope insulation levels meet or exceed ENERGY STAR v3/3.1 requirements.
X	Slab on Grade Insulation must be > R-5, and at IECC 2009 Depth for Climate Zones 4 and above.
X	Envelope insulation achieves RESNET Grade I installation, or Grade II with insulated sheathing.
X	Windows meet the 2009 IECC Requirements - Table 402.1.1.
X	Duct insulation meets the EPA minimum requirements of R-6.
X	Mechanical ventilation system has been measured in the home.
X	ENERGY STAR Checklists fully verified and complete.



This home **MEETS** or **EXCEEDS** the energy efficiency requirements  
for designation as an EPA ENERGY STAR Version 3 Single-Family New Home (Rev 11).

Pollution Prevented		Energy Cost Savings	\$/yr
Type of Emissions	Reduction	Heating	59
Carbon Dioxide (CO2) - tons/yr	3.7	Cooling	202
Sulfur Dioxide (SO2) - lbs/yr	8.6	Water Heating	45
Nitrogen Oxides (NOx) - lbs/yr	7.3	Lights & Appliances	154
		Total	460

The energy savings and pollution prevented are calculated by comparing the Rated Home to the Reference Home as defined in the Mortgage Industry National Home Energy Rating Systems Standards as promulgated by the Residential Energy Services Network (RESNET) . In accordance with these guidelines, building inputs affecting setpoints, infiltration rates, window shading and the existence of mechanical systems may have been changed prior to calculating loads.

# ENERGY STAR v3.0 Home Verification Summary

## Property

Sherjaique Diaz-Means  
1904 Katherine Street  
Lake Charles, LA 70601

## Organization

BHI-EnergyEfficiencySolutions  
409-697-3360  
James R. Barfield

## HERS

Confirmed  
2024-06-24  
Rating  
No:LiveOak1904Katherine  
Rater ID:0917800

Weather:Lake Charles, LA  
LiveOak1904Katherine  
LiveOak1904Katherine.blg

## Builder

Lemoine Disaster Recovery

## Building Information

Conditioned Area (sq ft)	2102
Conditioned Volume (cubic ft)	18918
Insulated Shell Area (sq ft)	5950
Number of Bedrooms	4
Housing Type	Single-family detached
Foundation Type	Open crawl space/raised floor

## Rating

ERI Index	46
ERI Index w/o PV	46
ERI Index Target (SAF Adjusted)	72
ERI Index of Reference Design Home	72
Size Adjustment Factor	1.00

ERI Index w/o PV <= ERI Index of Reference Design Home AND ERI Index <= ERI Index Target to comply.



This home MEETS or EXCEEDS the energy efficiency requirements  
for designation as an EPA ENERGY STAR Version 3 Single-Family New Home (Rev 11).

## Building Shell

Ceiling w/Attic	R-38 Blown, Attic* U=0.027 w/RB I	Window Type	Dbl/LoE/Arg - Vinyl0
Sealed Attic	None	Window	U-Value: 0.330, SHGC: 0.210
Vaulted Ceiling	None	Window/Wall Ratio	0.07
Above Grade Walls	R-13 R-2 U=0.071	Infiltration Type	Blower door
Found. Walls(Cond)	None	Infiltration	4.20 ACH50
Found. Walls(Uncond)	None	Duct Leakage to Outside	1.70 CFM @ 25 Pascals
Floors	R-30* U=0.032	Total Duct Leakage	1.70 CFM @ 25 Pascals
Slab Floors	None		

## Mechanical Systems

Heating	Fuel-fired air distribution, 32.0 kBtuh, 80.0 AFUE.
Cooling	Air conditioner, 36.0 kBtuh, 16.0 SEER.
Water Heating	Conventional, Gas, 0.93 EF.
Programmable Thermostat	Heat=Yes; Cool=Yes
Ventilation System	Exhaust Only: 76 cfm, 26.6 watts.

## Lights and Appliances

Refrigerator (kWh/yr)	691.00	Clothes Dryer Fuel	Electric	Interior LED Lighting (%)	100.00
Dishwasher Energy Factor	0.46	Clothes Dryer CEF	3.73	Ceiling Fan (cfm/Watt)	120.00
Range/Oven Fuel	Natural gas	Clothes Washer LER	400.00		
		Clothes Washer Capacity	3.00		

Note: Where feature level varies in home, the dominant value is shown.

REM/Rate - Residential Energy Analysis and Rating Software v16.3.4.1019

This information does not constitute any warranty of energy costs or savings.

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# ENERGY STAR® CERTIFIED NEW CONSTRUCTION

**Builder/Developer:** Lemoine Disaster Recovery

**Permit Date/Number:**

**Home/Unit Address:** 1904 Katherine Street  
Lake Charles, LA 70601

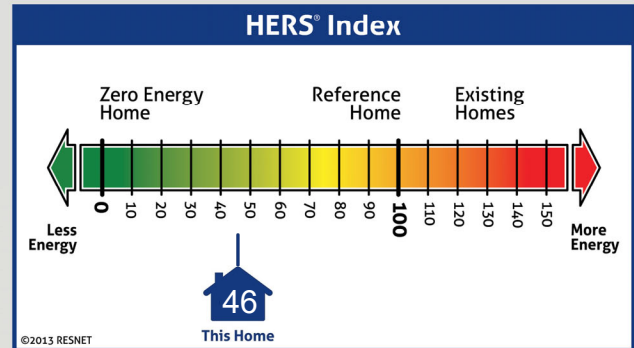
**Rating Company:** BHI-EnergyEfficiencySolutions

**Rater ID Number:** 0917800

**Rating Date:** 2024-06-24

**Oversight By:** RESNET

**Program/Version Number:** v3.0 (Rev 11)



This value is not intended to be used for code compliance.

## Standard Features of ENERGY STAR Certified New Homes and Apartments

Your ENERGY STAR certified new home or apartment has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

### Thermal Enclosure System

A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation, and high-performing windows to deliver improved comfort and lower utility bills.

**Air Infiltration Test:** 4.20 ACH50

**Primary Insulation Levels:**

**Ceiling:** R-38.0 **Floor:** R-30.0

**Wall:** R-15.0 **Slab:**

**Primary Window Efficiency:**

**U-Value:** 0.330 **SHGC:** 0.210



### Water Management System

A comprehensive water management system to protect roofs, walls, and foundations.

Flashing, a drainage plane, and site grading to move water from the roof to the ground and then away from the home or building.

Water-resistant materials on below-grade walls and underneath slabs to reduce the potential for water entering the home or building.

Management of moisture levels in building materials during construction.



### Heating, Cooling, and Ventilation System

A high-efficiency heating, cooling, and ventilation system that is designed and installed for optimal performance.

**Total Duct Leakage:** 1.70 CFM25 **Duct Leakage to Outdoors:** 1.70 CFM25

**Primary Heating (System Type • Fuel Type • Efficiency):**  
Fuel-fired air distribution, Natural gas, 80.0 AFUE.

**Primary Cooling (System Type • Fuel Type • Efficiency):**  
Air conditioner, Electric, 16.0 SEER.

**Whole-House Ventilation Type (System Type):**  
Exhaust-only



### Energy Efficient Lighting and Appliances

Energy efficient products to help reduce utility bills, while providing high-quality performance.

**Energy Efficient Lighting:** 100%

**ENERGY STAR Certified Appliances and Fans:**

**Refrigerators:** 1 **Dishwashers:** 1

**Ceiling Fans:** 4 **Exhaust Fans:** 4

**Primary Water Heater (System Type • Fuel Type • Efficiency):**  
Conventional, Natural gas, 0.93 EF, 40.0 Gal.




#### About this certificate

The certificate provides a summary of the major energy efficiency and other construction features that contribute to this home or apartment earning the ENERGY STAR, as determined through independent inspection and verification performed by a trained professional. The Energy Rating Index or HERS index for this home, if reported, is calculated in accordance with ANSI/RESNET/ICC Standard 301, with any exceptions

approved by EPA. Because the version of Standard 301 used to calculate this index may not align with the version referenced by code, this value is not intended to be used to demonstrate compliance with code. Note that when a home or apartment contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also, homes and apartments may be certified

to earn the ENERGY STAR using a sampling protocol, whereby one home or apartment is randomly selected from a set for representative inspections and testing. In such cases, the features found in each home or apartment within the set are intended to meet or exceed the values presented on this certificate. The actual values for your home or apartment may differ, but offer equivalent or better performance.

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	<b>CERTIFIED HOME</b> <small>Independently verified to meet EPA's strict guidelines for energy efficiency.</small>
<b>ENERGY STAR</b>	
Address: <div>1904 Katherine Street Lake Charles, LA 70601</div>	
Built by: <div>Lemoine Disaster Recovery</div>	
Verified by: <div>BHI - Energy Efficiency Solutions</div>	
Oversight by: <div>RESNET</div>	
Date: <div>2024-06-24</div>	Program/Version number: <div>v3.0</div>
Optional information: <div>ERI Index: 46</div>	
Learn more at <a href="https://energystar.gov/newhomes">energystar.gov/newhomes</a>	

# HOME CERTIFIED TO MEET THE PROVISIONS OF THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE

This home built at  
1904 Katherine Street, Lake Charles, LA  
by Lemoine Disaster Recovery  
exceeds the minimum requirements

## Building Features

Ceiling Flat	R-38.0 w/RB I	Duct	NA
Sealed Attic:	NA	Duct Leakage to Outside:	1.70 CFM @ 25 Pascals
Vaulted Ceiling	NA	Total Duct Leakage:	1.70 CFM @ 25 Pascals
Above Grade Walls	R-15.0	Infiltration:	4.20 ACH50
Foundation Walls	NA	Window	U-Value: 0.330, SHGC: 0.210
Exposed Floor	R-30.0	Heating	Fuel-fired air distribution, Natural gas, 80.0 AFUE.
Slab	None	Cooling	Air conditioner, Electric, 16.0 SEER.
ERI:	PV: 48/48	Water Heating	Conventional, Natural gas, 0.93 EF, 40.0 Gal.

The organization below certifies that the proposed building design described herein is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2021 IECC requirements in compliance with Chapter 4 based on Climate Zone 2A and with all mandatory requirements.

Name | James R. Barfield  
Organization | BHI-EnergyEfficiencySolutions

Signature |   
Date | 25 June 2024

The 2021 International Energy Conservation Code is a registered trademark of the International Code Council, Inc. ( "ICC").  
No version of this software has been reviewed or approved by ICC or its affiliates.  
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# 2021 IECC Certificate

1904 Katherine Street, Lake Charles, LA 70601

## Building Envelope Insulation

Ceiling	R-38.0 w/RB I
Above Grade Walls	R-15.0
Foundation Walls	NA
Exposed Floor	R-30.0
Slab	None
Infiltration	4.20 ACH50
Duct	NA
Total Duct Leakage	1.70 CFM @ 25 Pascals

## Window Data

	U-Factor	SHGC
Window	0.330	0.210

## Mechanical Equipment

HEAT: Fuel-fired air distribution, Natural gas, 80.0 AFUE.

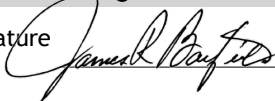
COOL: Air conditioner, Electric, 16.0 SEER.

DHW: Conventional, Natural gas, 0.93 EF, 40.0 Gal.

ERI:PV: 48/48

## Builder or Design Professional

Signature



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