

# ENERGY STAR V3.1 Home Report



## Property

5801 Coleman Street  
Westworth Village, TX 76114  
Model: 5801 Coleman Street WestW  
Community: WESTOVER ACRES

## Organization

Fox Energy Specialists  
Roger Taylor  
214-607-2537

## Inspection Status

2019-10-08  
Rater ID (RTIN): 4576699  
RESNET Registered  
(Confirmed)

Ferrier Custom Homes\_5801  
Coleman Street\_confirmed

## Builder

Ferrier Custom Homes

## Mandatory Requirements

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

## HERS Index Target

Reference Home HERS	59
SAF (Size Adjustment Factor)	1.00
SAF Adjusted HERS Target	59
As Designed Home HERS	2
As Designed Home HERS w/o PV	48

## Normalized, Modified End-Use Loads (MBtu / year)

	ENERGY STAR	As Designed
Heating	16.4	13.8
Cooling	23.8	17.2
Water Heating	7.1	2.7
Lights and Appliances	26.1	26.4
Total	73.5	60.1



This home **MEETS** or **EXCEEDS** the energy efficiency requirements for designation as an **EPA ENERGY STAR Qualified Home** under Version 3.1

## Pollution Prevented

Type of Emissions	Reduction
Carbon Dioxide (CO <sub>2</sub> ) - tons/yr	9.9

## Energy Cost Savings

	\$/yr
Heating	74
Cooling	87
Water Heating	60
Lights & Appliances	-10
Generation Savings	1,286
Total	1,496

The energy savings and pollution prevented are calculated by comparing the Rated Home to the ENERGY STAR Version 3.1 Reference Home as defined in the ENERGY STAR Qualified Homes HERS Index Target Procedure for National Program Requirements, Version 3.1 promulgated by the Environmental Protection Agency (EPA). In accordance with the ANSI/RESNET/ICC 301-2014 Standard, building inputs affecting setpoints infiltration rates, window shading and the existence of mechanical systems may have been changed prior to calculating loads

# ENERGY STAR V3.1 Emissions Comparison



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Annual Carbon Dioxide (CO <sub>2</sub> ) [tons/yr]	ES V3.1 Ref.	Rated Home	Savings	% Saved
Heating	1.9	1.7	0.3	13.3%
Cooling	1.9	1.3	0.5	27.7%
Water Heating	0.8	0.4	0.4	48%
Lights & Appliances	5.1	5.2	-0.1	-1.2%
Photovoltaics	-0.0	-8.6	8.6	
<b>TOTAL</b>	<b>9.7</b>	<b>0.0</b>	<b>9.7</b>	<b>99.7%</b>

Annual Sulfur Dioxide (SO <sub>2</sub> ) [lbs/yr]	ES V3.1 Ref.	Rated Home	Savings	% Saved
Heating	4.3	3.7	0.6	13.3%
Cooling	4.1	2.9	1.1	27.7%
Water Heating	0.0	0.0	0.0	48%
Lights & Appliances	10.8	11.0	-0.1	-1.3%
Photovoltaics	-0.0	-18.8	18.8	
<b>TOTAL</b>	<b>19.2</b>	<b>-1.2</b>	<b>20.4</b>	<b>106.5%</b>

Annual Nitrogen Oxide (NO <sub>x</sub> ) [lbs/yr]	ES V3.1 Ref.	Rated Home	Savings	% Saved
Heating	2.4	2.1	0.3	13.3%
Cooling	2.3	1.7	0.6	27.7%
Water Heating	1.6	0.8	0.8	48%
Lights & Appliances	6.4	6.5	-0.1	-1.2%
Photovoltaics	-0.0	-10.6	10.6	
<b>TOTAL</b>	<b>12.8</b>	<b>0.5</b>	<b>12.3</b>	<b>96.1%</b>

# ENERGY STAR V3.1 Fuel Summary Comparison



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Ferrier Custom Homes\_5801 Coleman  
Street\_confirmed

Annual Energy Cost [\$ /yr]	ES V3.1 Ref.	Rated Home	Savings	% Saved
Natural Gas	\$353	\$293	\$60	17%
Electric	\$1,616	\$180	\$1,436	88.9%

Annual End-Use Cost [\$ /yr]	ES V3.1 Ref.	Rated Home	Savings	% Saved
Heating	\$319	\$277	\$42	13.2%
Cooling	\$306	\$221	\$85	27.8%
Water Heating	\$124	\$65	\$59	47.4%
Lights & Appliances	\$838	\$848	-\$10	-1.2%
Onsite Generation	-\$0	-\$1,319	\$1,319	
Service Charges	\$381	\$381	\$0	0%
Total	\$1,969	\$473	\$1,496	76%

Annual End-Use Consumption	ES V3.1 Ref.	Rated Home	Savings	% Saved
Heating [Electric kWh]	2,661.1	2,307.0	354.0	13.3%
Cooling [Electric kWh]	2,547.9	1,842.7	705.1	27.7%
Hot Water [Natural Gas Therms]	139.8	72.6	67.1	48%
Lights & Appliances [Natural Gas Therms]	30.7	30.7	0.0	0%
Lights & Appliances [Electric kWh]	6,757.2	6,842.6	-85.4	-1.3%
Total [Natural Gas Therms]	170.5	103.3	67.1	39.4%
Total [Electric kWh]	11,966.1	10,992.3	973.8	8.1%
Total Onsite Generation kWh	0.0	11,777.4	-11,777.4	

Peak Electric Consumption	ES V3.1 Ref.	Rated Home	Savings	% Saved
Peak Winter kW	1.91	1.72	0.19	9.9%
Peak Summer kW	3.86	3.23	0.62	16.2%

## Utility Rates

Electricity	Dallas Avg Elec 2/19
Natural Gas	Dallas Avg Gas 2/19