
SOURCE ENERGY & EMISSIONS REPORT

Date:	May 04, 2007	Rating No.:	
Building Name:	Custom	Rating Org.:	Cornerstone Energy
Owner's Name:	B.O.L.D. Homes	Phone No.:	614-351-1439
Property:	988 Aristides	Rater's Name:	Terry Smith
Address:	Union, KY 41091	Rater's No.:	2003-02
Builder's Name:	Bold Homes	Rating Type:	Verified Condition
Weather Site:	Covington, KY	Rating Date:	8/22/06
File Name:	988 Aristides.blg		

Source Energy Consumption (MMBtu/year)

	<i>All Electric</i>			
	<i>Reference Home</i>	<i>As Designed</i>	<i>Difference</i>	<i>% Difference</i>
Heating:	181.0	68.8	-112.1	-62.0%
Cooling:	37.5	15.2	-22.4	-59.6%
Water heating:	24.3	22.6	-1.8	-7.2%
Lights & Appliances:	169.7	144.8	-24.9	-14.7%
Photovoltaics:	0.0	0.0		
Total:	412.6	251.4	-161.2	-39.1%

Total Emissions (lbs/year)

	<i>All Electric</i>			
<i>Type of Emissions</i>	<i>Reference Home</i>	<i>As Designed</i>	<i>Difference</i>	<i>% Difference</i>
Carbon Dioxide (CO2)	82949.0	42409.7	-40539.3	-48.9%
Sulfur Dioxide (SO2)	523.0	206.6	-316.4	-60.5%
Nitrogen Oxides (NOx)	338.7	145.8	-192.9	-56.9%

Emissions By End-Use (lbs/year)
(All Electric Reference Home versus As Designed)

	CO2		SO2		NOx	
	<i>Ref</i>	<i>Des</i>	<i>Ref</i>	<i>Des</i>	<i>Ref</i>	<i>Des</i>
Heating	37429.4	7973.2	243.8	6.4	156.4	12.8
Cooling	7763.8	3140.3	50.6	20.5	32.4	13.1
Water Heating	2651.8	2460.4	0.0	0.0	3.3	3.1
Lights & Appliances	35103.9	28835.8	228.6	179.7	146.6	116.8
Photovoltaics	0.0	0.0	0.0	0.0	0.0	0.0

The energy and emission values are calculated by comparing the Rated Home to an all-electric version of the Reference Home as defined in the "Mortgage Industry National Home Energy Rating Systems Standards" as promulgated by the Residential Energy Services Network (RESNET). Site-to-source energy multipliers and air emission data were taken from the USEPA E-GRID97 database.



ENERGY STAR HOME REPORT

Date:	May 04, 2007	Rating No.:	
Building Name:	Custom	Rating Org.:	Cornerstone Energy
Owner's Name:	B.O.L.D. Homes	Phone No.:	614-351-1439
Property:	988 Aristides	Rater's Name:	Terry Smith
Address:	Union, KY 41091	Rater's No.:	2003-02
Builder's Name:	Bold Homes	Rating Type:	Verified Condition
Weather Site:	Covington, KY	Rating Date:	8/22/06
File Name:	988 Aristides.blg		

Normalized, Modified End-Use Loads (MMBtu/year)

	ENERGY STAR	As Designed
Heating:	56.3	33.7
Cooling:	26.5	12.6
Water heating:	11.4	11.9
Lighting & Appliances:	41.2	48.5
Total:	135.4	106.7
HERS Index:	85	67

ENERGY STAR Mandatory Requirements

- | | |
|---|--|
| <input checked="" type="checkbox"/> Thermal Bypass Inspection Checklist * | <input checked="" type="checkbox"/> ENERGY STAR Products * |
| <input checked="" type="checkbox"/> Ductwork Requirements | <input checked="" type="checkbox"/> ENERGY STAR Scoring Exceptions |

* Thermal Bypass Checklist and ENERGY STAR Products are not checked in REM/Rate at this time.

This home MEETS OR EXCEEDS the energy efficiency requirements for designation as an EPA ENERGY STAR Qualified Home.

Pollution Prevented		Energy Cost Savings (\$/year)	
Type of Emissions	Reduction (lb/year)	Heating:	\$615
Carbon Dioxide (CO2)	11290.2	Cooling:	\$106
Sulfur Dioxide (SO2)	34.9	Water Heating:	\$20
Nitrogen Oxides (NOx)	29.8	Lights & Appliances:	\$-26
		Total:	\$714

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.

REM/Rate - Residential Energy Analysis and Rating Software v12.4

This information does not constitute any warranty of energy cost or savings.
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Home Energy Rating Certificate

988 Aristides
Union, KY 41091



5 Stars Plus
Verified Condition

Uniform Energy Rating System

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70-0

Energy Efficient

HERS Index: 67

General Information

Conditioned Area: 4434 sq. ft. HouseType: Single-family detached
 Conditioned Volume: 39906 cubic ft. Foundation: Conditioned basement
 Bedrooms: 4

Mechanical Systems Features

Water Heating: Conventional, Natural gas, 0.63 EF.
 Heating: Fuel-fired air distribution, Natural gas, 92.1 AFUE.
 Cooling: Air conditioner, Electric, 13.0 SEER.
 Duct Leakage to Outside: 0.00 CFM.
 Ventilation System: None
 Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat: R-40 Exposed Floor: NA
 Vaulted Ceiling: NA Window Type: U-0.32 SHG-0.340
 Above Grade Walls: R-13 **Infiltration:**
 Foundation Walls: R-24.0 Rate: Htg: 2051 Clg: 2051 CFM50
 Slab: R-0.0 Edge, R-0.0 Under Method: Blower door test

Lights and Appliance Features

Percent Fluorescent Pin-Based: 10.00 Clothes Dryer Fuel: Natural gas
 Percent Fluorescent CFL: 0.00 Range/Oven Fuel: Natural gas
 Refrigerator (kWh/yr): 775.00 Ceiling Fan (cfm/Watt): 70.40
 Dishwasher Energy Factor: 0.46

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

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Rating Number:

Certified Energy Rater: Terry Smith

Rating Date: 8/22/06

Rating Ordered For: B.O.L.D. Homes

Estimated Annual Energy Cost

Use	Verified Condition		
	MMBtu	Cost	Percent
Heating	59.6	\$751	35%
Cooling	4.3	\$85	4%
Hot Water	20.5	\$254	12%
Lights/Appliances	48.5	\$936	44%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$102	5%
Total		\$2129	100%

This home meets or exceeds the minimum criteria for all of the following:

TITLE

Company

Address

City, State, Zip

Phone #

Fax #