
FUEL SUMMARY

| | | | |
|-----------------|---|---------------|----------------|
| Date: | November 14, 2012 | Rating No.: | |
| Building Name: | Evolve 1.9 Lot 94 | Rating Org.: | Everyday Green |
| Owner's Name: | | Phone No.: | 717-587-0921 |
| Property: | 664 Richmond Drive | Rater's Name: | Scott Pusey |
| Address: | Lancaster, PA 17601 | Rater's No.: | 6780062 |
| Builder's Name: | HESS Home builders | | |
| Weather Site: | Harrisburg, PA | Rating Type: | Confirmed |
| File Name: | Hess-C-Lot 94-664 Richmond Drive 10-26-12.blc | Rating Date: | 2012-11-02 |

Evolve 1.9 Lot 94

Annual Energy Cost (\$/yr)

| | | |
|-------------|----|------|
| Natural gas | \$ | 546 |
| Electric | \$ | 1261 |

Annual End-Use Cost (\$/yr)

| | | |
|---------------------|----|------|
| Heating | \$ | 620 |
| Cooling | \$ | 271 |
| Water Heating | \$ | 157 |
| Lights & Appliances | \$ | 760 |
| Photovoltaics | \$ | -0 |
| Service Charges | \$ | 204 |
| Total | \$ | 2012 |

Annual End-Use Consumption

| | |
|---------------------------|------|
| Heating (CCF) | 375 |
| Heating (kWh) | 1904 |
| Cooling (kWh) | 2057 |
| Water Heating (CCF) | 114 |
| Water Heating (kWh) | 338 |
| Lights & Appliances (CCF) | 67 |
| Lights & Appliances (kWh) | 5250 |

Annual Energy Demands (kW)

| | |
|-----------------------------------|-----|
| Heating | 2.2 |
| Cooling | 1.7 |
| Water Heating (Winter Peak) | 0.1 |
| Water Heating (Summer Peak) | 0.0 |
| Lights & Appliances (Winter Peak) | 0.5 |
| Lights & Appliances (Summer Peak) | 0.9 |
| Total Winter Peak | 2.7 |
| Total Summer Peak | 2.6 |

FUEL SUMMARY

Evolve 1.9 Lot 94

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Utility Rates:

| | |
|--------------|-----------|
| Electricity: | PPL (new) |
| Gas: | UGI |

ENERGY COST AND FEATURE REPORT

| | | | |
|-----------------|---|---------------|----------------|
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Evolve 1.9 Lot 94

ANNUAL ENERGY COSTS

| | | |
|---------------------|----|------|
| Heating | \$ | 620 |
| Cooling | \$ | 271 |
| Water Heating | \$ | 157 |
| Lights & Appliances | \$ | 760 |
| Photovoltaics | \$ | -0 |
| Service Charges | \$ | 204 |
| | | |
| Total | \$ | 2012 |
| Average Monthly | \$ | 168 |

ENERGY FEATURES

| | |
|--------------------------|---|
| Ceiling w/Attic: | R-38 Blown, Attic U=0.026 |
| Sealed Attic: | None |
| Vaulted Ceiling: | R-25, Vaulted U=0.059 |
| Above Grade Walls: | R-19 U=0.072 |
| Foundation Walls (Cond): | None |
| Found. Walls (Uncond): | R-13 Draped, Full R=13.0 |
| Doors: | MI 3580 U=0.222 |
| Windows: | U:0.31, SHGC:0.46 U=0.310 |
| Frame Floors: | Uninsulated U=0.257 |
| Slab Floors: | None |
| Infiltration: | Htg: 1003 Clg: 1003 CFM50 |
| Infilt. Measure: | Blower door test |
| Mechanical Ventilation: | None |
| Interior Mass: | None |
| Mech Equip List: | Heating: Fuel-fired air distribution, 56.0 kBtuh, 95.0 AFUE. Water Heating: Instant water heater, Gas, 0.94 EF. Water Heating: Conventional, Elec, 0.93 EF. |

ENERGY COST AND FEATURE REPORT

Evolve 1.9 Lot 94

Page 2

Cooling: Air conditioner, 24.0 kBtuh, 13.0 SEER.

ASHP: Htg: 20.9 kBtuh, 11.3 HSPF. Clg: 9.0 kBtuh, 13.0 SEER.

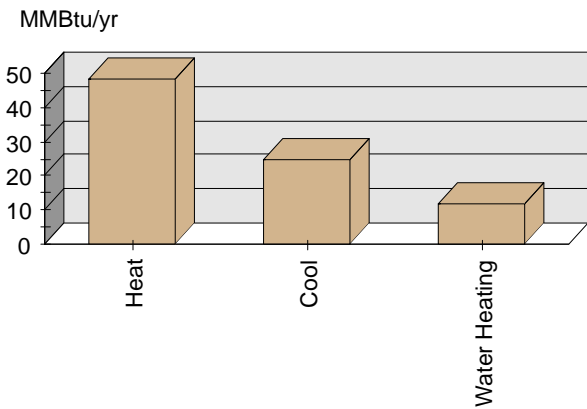
Programmable Thermostat: Heat=Yes; Cool=Yes
Ducts: Uninsulated Conditioned space
Duct Leakage to Outside: 47.00 CFM per Std 152
Total Duct Leakage: 137.00 CFM per Std 152
Lights/Appliances: Defaults
Active Solar: None
Photovoltaics: 0.00
Sunspace: No

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

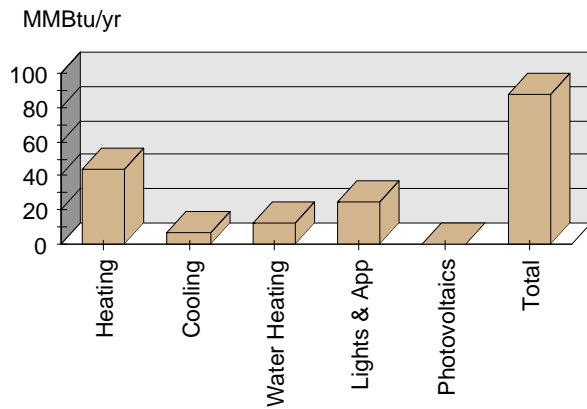
PERFORMANCE SUMMARY

| | | | |
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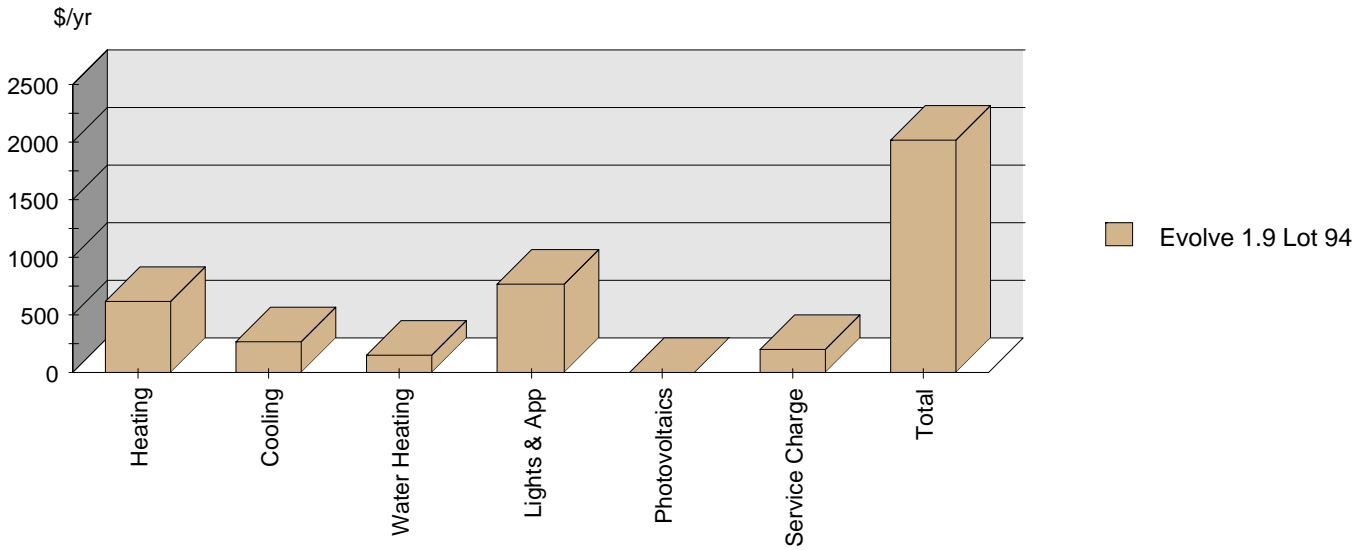
Annual Load



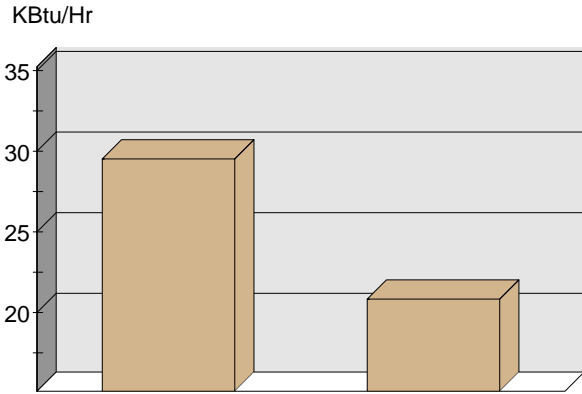
Annual Consumption



Annual Energy Cost



Design Loads



Utility Rates:

Electricity: PPL (new)
Gas: UGI

SOURCE ENERGY & EMISSIONS REPORT

| | | | |
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Source Energy Consumption (MMBtu/year)

All Electric

| | <i>Reference Home</i> | <i>As Designed</i> | <i>Difference</i> | <i>% Difference</i> |
|----------------------|-----------------------|--------------------|-------------------|---------------------|
| Heating: | 110.3 | 67.9 | -42.4 | -38.4% |
| Cooling: | 30.9 | 16.0 | -14.9 | -48.2% |
| Water heating: | 25.0 | 17.6 | -7.4 | -29.5% |
| Lights & Appliances: | 87.2 | 71.7 | -15.5 | -17.8% |
| Photovoltaics: | 0.0 | 0.0 | | |
| Total: | 253.4 | 173.2 | -80.1 | -31.6% |

Total Emissions

All Electric

| <i>Type of Emissions</i> | <i>Reference Home</i> | <i>As Designed</i> | <i>Difference</i> | <i>% Difference</i> |
|----------------------------------|-----------------------|--------------------|-------------------|---------------------|
| Carbon Dioxide (CO2) - tons/year | 12.9 | 8.9 | -4.0 | -31.2% |
| Sulfur Dioxide (SO2) - lbs/year | 131.1 | 81.6 | -49.5 | -37.8% |
| Nitrogen Oxides (NOx) - lbs/year | 34.8 | 23.8 | -11.0 | -31.7% |

Emissions By End-Use

(All Electric Reference Home versus As Designed)

| | CO2-tons/yr | | SO2-lbs/yr | | NOx-lbs/yr | |
|---------------------|-------------|------------|------------|------------|------------|------------|
| | <i>Ref</i> | <i>Des</i> | <i>Ref</i> | <i>Des</i> | <i>Ref</i> | <i>Des</i> |
| Heating | 5.7 | 3.6 | 45.4 | 18.5 | 15.1 | 9.3 |
| Cooling | 1.5 | 0.8 | 23.0 | 11.9 | 4.3 | 2.2 |
| Water Heating | 1.3 | 0.9 | 3.1 | 3.1 | 3.4 | 2.4 |
| Lights & Appliances | 4.3 | 3.6 | 59.6 | 48.0 | 12.0 | 9.9 |
| 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 multipliers and air emission data were taken from the US EPA eGRID2007 database.

EMISSIONS REPORT

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Total Emissions

Evolve 1.9 Lot 94

Type of Emissions

| | |
|---|------|
| Carbon Dioxide (CO ₂) - tons/year | 9.1 |
| Sulfur Dioxide (SO ₂) - lbs/year | 87.4 |
| Nitrogen Oxides (NO _x) - lbs/year | 24.4 |

Emissions By End-Use

Evolve 1.9 Lot 94

Carbon Dioxide (CO₂) - tons/year

| | |
|---------------------|-----|
| Heating | 3.4 |
| Cooling | 1.2 |
| Water Heating | 0.9 |
| Lights & Appliances | 3.6 |
| Photovoltaics | 0.0 |

Sulfur Dioxide (SO₂) - lbs/year

| | |
|---------------------|------|
| Heating | 17.4 |
| Cooling | 18.8 |
| Water Heating | 3.1 |
| Lights & Appliances | 48.0 |
| Photovoltaics | 0.0 |

Nitrogen Oxide (NO_x) - lbs/year

| | |
|---------------------|-----|
| Heating | 8.8 |
| Cooling | 3.5 |
| Water Heating | 2.3 |
| Lights & Appliances | 9.9 |
| Photovoltaics | 0.0 |

Site-to-source energy multipliers and air emission data were taken from the US EPA eGRID2007 database.