Home Energy Saver **Making It Happen**

Help us improve the site. Click here

Heating & Cooling   Water Heating   **Major Appliances   Small Appliances   Lighting**

Energy Bill for Homes in Higbee, Missouri

Based on the zip code you entered, here is a comparison of the energy costs (in $/year)
of an average home and an energy-efficient home in your area.

Average Home $1554

Efficient Home $897

Potential Savings $657

About the Results

☐ Heating ▦ Cooling   Water Heating ☐ Major Appliances   Lighting ▪ Small Appliances

See greenhouse gas emissions and energy consumption   **What should I do next?**

Start Calculation...

1. Upgrade Calculation:

What simple payback period would you like to use for selecting upgrades? [10 years ▾]

What efficiency level would you like to model for the initial selection of upgrades? [Energy Star / DOE recommended ▾]

(you may actually adjust the efficiency of each upgrade later)

2. Which city has the most similar climate to your house? [Columbia ▾]

3. Year your house was built: [1962]

4. What is the conditioned floor area: [1800] sq. ft.

5. How many stories above ground level are there? [1 ▾]

6. The front of your house faces: [North ▾]

7. What type of foundation does your house have? [Conditioned Basement ▾]

8. How much attic floor or roof insulation do you have? [R-11 (4-6 inches) ▾]

9. Does your house have wall insulation? ○ Yes ● No/Don't Know

10. Does your house have foundation or floor insulation? ○ Yes ● No/Don't Know

11. Do you have a clothes washer? ● Have ○ Don't Have

12. How many refrigerators do you have? [1 Refrigerator ▾]

FILED[2]

FEB 0 7 2007

Missouri Public
Service Commission

Staff Exhibit No. *106-B*
Case No(s). *GR-2006-0422*
Date *1-11-07* Rptr *JM*

Home Energy Saver Making It Happen

Help us improve the site. Click here

Heating and Cooling   Water Heating   **Major Appliances**   **Small Appliances**   Lighting

Energy Bill for Homes in Higbee, Missouri

Based on the zip code you entered. here is a comparison of the energy costs (in $/year) of an average home and an energy-efficient home in your area.

Average Home $1554

Efficient Home $897

Potential Savings $657

About the Results

□ Heating ▨ Cooling   Water Heating ▨ Major Appliances   Lighting ■ Small Appliances

See greenhouse gas emissions and energy consumption   What should I do next?

Your energy consumption needs to be calculated. - Use the drop down menus above (General Info, Heating and Cooling, etc.) to continue customizing your house. When you've finished answering questions, click the "Calculate" button to start the calculation process for your house. To calculate your retrofits, the site needs to perform multiple heating and cooling simulations, which will take around a minute to calculate. We appreciate your patience.

Your Session Number: **738437**   Calculate

Pages You've visited: (indicated with * blue dots)

General Information	Heating and Cooling		Major Appliances	Small Appliances
General Information	House Shape & Size	Skylights	Refrigerators	Entertainment
Energy Prices		Attic & Roof	Cooking and Dishwasher	Home Office
Session Management	Exterior Shading	Ducts & Pipes	Laundry	Misc. Kitchen
	Airtightness	Thermostat	Hot Tubs, Spas and Pumps	Other Appliances
Water Heater	Foundation & Floor	Heating Equipment		
	Walls			
	Doors & Windows	Cooling Equipment		
Lighting				

Home Energy Saver Making It Happen

About HES   What's New   Energy Librarian   Glossary   FAQ   Search   Help

Help us Improve the site. Click here

Heating & Cooling   Water Heating   Major Appliances   Small Appliances   Lighting

Session ID: 738437
Zipcode: 65257
Location: Higbee, Missouri

Initial Results: Your Energy Bill ($/year)

Existing Home $2095

with Selected Upgrades $

	Heating	Cooling	Water Heating	Major Appliances	Lighting	Small Appliances
Existing Home	$ 1252	$ 221	$ 111	$ 325	$ 91	$ 95
With Selected Upgrades	$ 0	$ 0	$ 0	$ 0	$ 0	$ 0

Potential Annual Savings	
Money:	$
Energy:	kWh & Therms & gal. Oil & gal. LPG
CO_2 Emissions:	0 lb. CO_2
More detail on energy and CO_2 emissions...	

Instructions | **Existing Home Configuration:** View | Change

Home Energy Saver Making It Happen

These links are here to aid the search engine.

Comparing Your Results to Your Utility Bill

Energy use varies widely, even among seemingly identical homes! This is because of differences in house design, appliances, lifestyles, and comfort requirements. If your Home Energy Saver results differ from your actual energy bills, be sure to first check that all your input values agree with how your home is actually designed and operated. If the total cost differs but energy use is the same, keep in mind that we use a single price for energy, while many utilities use complicated "tariff structures", where the price varies by the time of year and/or day, your level of consumption, or other factors. Any remaining differences are probably due to one or more of the factors below. After reviewing these factors, you may want to modify some of the HES inputs that are more difficult to measure or estimate (thermostats settings, washer loads, insulation levels, percent of floor area that is conditioned) to get a better match between your actual bills and the HES estimates.

Following are factors that could cause your actual consumption to be higher than the HES results. Most can be corrected by double-checking and modifying your house description.
- you have miscellaneous appliances not included in the HES input pages
- you have more than one refrigerator or other major energy user that you forgot to input into HES
- you use portable space heaters during the winter, but did not include them in your house description
- your ducts are leakier and/or less insulated than specified
- your insulation was not properly installed or has deteriorated over time
- your appliances, spa, pool, or other miscellaneous appliances are larger, less efficient, or operated more than HES assumes
- you keep your thermostat on higher settings than modeled in HES (remember that thermostat settings can be very complicated if different household members use different settings)
- last winter (or the period that your actual bills are from) was colder than average, and/or the summer was hotter than average*
- you had extra visitors (remember those pesky in-laws that came in August... and stayed through Thanksgiving?)

Following are factors that could cause your actual consumption to be lower than the HES results. Most can be corrected by double-checking and modifying your house description.
- you have a wood stove or solar heating, whose energy cost is not included in your utility bills
- you don't heat or cool parts of your house that were included in the HES inputs
- you use a clothesline instead of a clothes dryer
- you took a long vacation this year
- your appliances, spa, pool, or other miscellaneous appliances smaller, more efficient, or are operated less than HES assumes
- you keep your thermostat on lower settings than modeled in HES (remember that thermostat settings can be very complicated if different household members use different settings)
- last winter (or the period that your actual bills are from) was warmer than average, and/or the summer was cooler than average*

* Keep in mind that the Home Energy Saver estimates heating and cooling usage assuming 30-year average climatic conditions between 1961 and 1990. The climate in any given year is going to differ somewhat from this average (usually by less than +/-20%). To get a sense for how the climate from the period of your actual bills compares to the long-term average climate, you can look at the data available on-line either at the State or Regional Climate Centers, (general climate data is available from National Climate Data Center).