

PERSONAL ENERGY AUDIT

NAME _____



Although your personal use of energy is small compared to the total amount of energy used around the globe, we each have a responsibility for the world's energy use and production. Personal decisions about how much energy to use or energy sources can make a significant difference to the planet's overall energy supply and environment. How much of the world's resources do you use and what energy uses/behaviors would you give up or change in order to preserve Earth for the next generation? Learn more about your own energy use by answering the questions below:

HOUSEHOLD ENERGY USE

1. Go to the EPA's Power Profiler website at www.epa.gov/clearenergy/energy-and-you/how-clean.html to learn the fuel mix comparison and emissions rate comparison for homes in your zip code. What energy source(s) are used for your electricity? Is your emissions rate higher, lower, or the same as the national average?
2. Using your electric bill, calculate the average monthly number of kilowatt hours (kWh) used for your household energy use.
3. Then research the wattage and monthly use of each of these home appliances:

Appliance	# of units	Wattage (can be found on appliance)	Estimated use per month in hours	kWh/month (1000 watts = 1 kw)
Refrigerator/ Freezer	X		X	=
Water heater	X		X	=
Washer or Dryer	X		X	=
Microwave Oven	X		X	=
Computer	X		X	=
Television	X		X	=
Oven	X		X	=

4. Determine the amount of CO₂ released from each of the appliances above by multiplying the number of kWh by 0.77 kg/kWh. If a coal-burning power plant is the main source for your electricity, the amount of CO₂ emitted can be approximated by multiplying the number of kWh by .032kg/kWh.

(cont.)

5. Do you buy locally grown foods:
() Always
() Sometimes
() Never
6. Do you buy environmentally friendly house-cleaning products:
() Always
() Sometimes
() Never
7. How often do you charge your cell phone or personal music device? _____
8. Do you ever keep your phone or personal music device charger plugged in once it's completely charged?
If so, it is still using electricity. _____
9. If you have a computer, do you turn it off when you are not using it? If not, it is still using electricity.

10. If you have a laptop or notepad, do you use it while it is plugged in? _____
If so, it is still using electricity? _____

HOUSEHOLD ENERGY EFFICIENCY

1. Do you have any ENERGY STAR appliances, home electronics, and/or heating/cooling equipment?

2. Are your home windows single- or double-paned? _____
3. Does your attic have air circulation? _____
4. Do your light fixtures have compact fluorescent bulbs? _____
5. Do your doors and windows close tightly? _____
6. Do you use lights only when it is dark? _____
7. Are lights turned off when no one is in the room? If not, count the number of unoccupied rooms with lights on. _____
8. Are washers and dryers only used with full loads? _____
9. What is the number of loads of laundry washed in cold water? _____
10. Is the dishwasher only used when full? _____
11. Do you turn off/unplug all computers and small appliances when you aren't using them? (Computers, toasters, microwaves, etc.) _____
12. Is your thermostat set to a timer? _____
Do you adjust it at night or when no one is home? _____
13. What color is your house? _____
Does it absorb or reflect heat? _____

14. Do you regularly recycle:

- () Glass
- () Paper
- () Aluminum
- () Plastic
- () Cardboard

TRANSPORTATION

1. Approximately how many miles do you or your family drive each week? _____

2. How many miles per gallon does your vehicle(s) get? _____
How does this compare to the U.S. average of 22.6 mpg? _____

3. Go to www.terrapass.com/carbon-footprint-calculator/ to calculate your vehicle's CO₂ emissions based on number of miles driven. Compare your vehicle to a large truck and to a hybrid on the same website.

4. Do you use mass transportation, bike, or carpool:

- () Always
- () Sometimes
- () Never

5. Do you/your parents typically follow the speed limit?

- () Always
- () Sometimes
- () Rarely/Never

6. Do you/your parents idle (keep car turned on when it is not moving):

- () Frequently
- () Sometimes
- () Rarely/Never