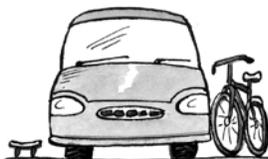


# Your Energy Audit

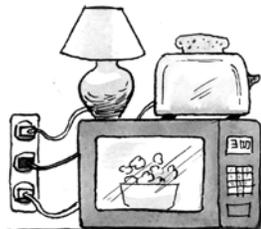
You will conduct an energy audit of your household and compute how many kilograms of CO<sub>2</sub> you are responsible for releasing into the atmosphere—your carbon footprint. Your investigation will focus on the three major areas:

- transportation
- electricity
- space and water heating



## Transportation

- 1 Keep track of how many gallons of gas your family buys in the course of a week, or ask family members for their best estimate. Estimate the number of gallons used for one month, then multiply by 12 to get the total fuel per year.
- 2 Enter your family's yearly fuel use in the table. Since the burning of one gallon of gasoline emits 8.2 kilograms of CO<sub>2</sub>, multiply your answer by 8.2 and enter the new value under "CO<sub>2</sub> Emission" in the table.
- 3 Divide the CO<sub>2</sub> emission by the number of family members in your household to get a general idea of how much each person uses.



## Electricity

- 1 Ask to see your electric bills over the course of a year. If you cannot obtain all 12, try to average your family's monthly use and multiply by 12 to obtain the kilowatt-hours used per year. Keep in mind that your electric bill may fluctuate quite a bit over the 12 months.
- 2 Enter your family's electricity use in the table. Since each kilowatt-hour of electricity results in the emission of 1 kilogram of CO<sub>2</sub>, multiply your answer by 1 and enter the new value under "CO<sub>2</sub> Emission" in the table.
- 3 Divide the CO<sub>2</sub> emission by the number of family members in your household to get a general idea of how much each person uses.



## Space and Water Heating

- 1 Find your natural gas or fuel oil bills. You will need to find the number of cubic feet of natural gas or oil equivalent used. If you have a gas bill, multiply the number of therms by 100 to find the number of cubic feet of gas used that month. Average all 12 months if possible. If you use fuel oil, one barrel of oil (42 gallons) is equivalent to 7700 cubic feet of natural gas.
- 2 Enter your family's yearly natural gas usage in the table. Since the burning of one cubic foot of natural gas emits 0.062 kilogram of CO<sub>2</sub>, multiply by 0.062, and enter the new value under "CO<sub>2</sub> Emission" in the table.
- 3 Divide the CO<sub>2</sub> emission by the number of family members in your household to get a general idea of how much each person uses.

## Calculate Totals

Find your totals in the last row of your table.