



SIERRA
CLUB
FOUNDED 1892

Explore, enjoy and protect the planet



**Now that you have seen
the movie...**

**How are we going to change it?
What in the world can I do?**

Your Personal Action Plan to... CURB GLOBAL WARMING

1

Educate Yourself

Use the worksheet on the flip side to calculate how much energy you currently use and determine the quickest and easiest way to reduce your global warming impact. Just changing your five most used lights with an energy efficient model is like taking eight million cars off the road!

2

Be A Smart Consumer

Buy local and organic to reduce the amount of air pollution created and energy used by transporting products long distances. Buying recycled and reusable products is still one of the best ways to curb global warming pollution. When trees are spared from the paper mill, they are doing an important job of taking global warming emissions from the atmosphere.

3

Get Your Town to Become a "Cool City"

Cool Cities have committed to reduce CO₂ levels in their own communities by purchasing green city fleets, investing in renewable energy, and looking towards energy efficiency as a global warming solution. Over 393 mayors, including 10 Illinois mayors, have made this commitment. Do you live in a Cool City? Contact *Colleen Sarna* (colleen.sarna@sierraclub.org) for details or visit www.coolcities.us.

4

Organize Your Community

Make your community part of the solution by talking to your friends, families, and co-workers about making your local schools, churches, and businesses more energy efficient.

5

Stay Informed

Become part of the Sierra Club movement! Sign up for our monthly 1-page e-newsletter that will demystify global Warming and air pollution while providing solutions and updates specific to Illinois. Sierra Club will also be holding an energy efficiency workshop in the spring to help homeowners reduce energy consumption. Contact *Verena Owen*, *Clean Energy Campaign Chairperson* - air@illinois.sierraclub.org to get announcements and updates.

Your Home and Auto Energy Worksheet

Daily Home CO₂ Emissions

Appliance	Quantity	Hours Used	Watts	Total Watts
Light Bulbs	_____ X	_____	X 60	= _____
Dishwasher	_____ X	_____	X 1800	= _____
Washing Machine	_____ X	_____	X 425	= _____
Hot Water Heater	_____ X	_____	X 5000	= _____
Laptop Computer	_____ X	_____	X 50	= _____
Television	_____ X	_____	X 133	= _____

To produce 1 KWh of electricity you burn 1 lb. of coal which emits 2 lbs. of CO₂

Grand Total Watts: _____
 divide by 1000: _____ = Kilowatts per hour (KWh/hr)
 multiply by 2: _____ = lbs. of CO₂ emitted at home

Daily Automobile CO₂ Emissions

Daily Miles Driven _____ divided by _____ Miles per gallon x 28 = _____ lbs. of CO₂ emitted by your automobile(s)

Home CO₂ _____ + Auto CO₂ _____ = _____ **Your Daily CO₂ Emissions**

X 365 = _____ **Your Yearly CO₂ Emissions**

To reduce your Annual CO₂ emissions, try some of the following tips, which not only reduce energy use and CO₂ emissions, but also saves you money!

1 Switch Your Light Bulbs
 By switching your incandescent light bulb to a 13-watt compact florescent light bulb (CFL) you will save 100 lbs. of CO₂ and \$20 a year for EACH light bulb you change.

2 Load Up
 Run a full load of dishes and switch your drying cycle from heat to air dry on your dishwasher each time you use it and save 200 lbs. of CO₂ and \$40 a year.

3 Buy Energy Efficient Appliances
 A new energy efficient refrigerator saves 500 lbs. of CO₂ and \$60 annually. A new energy efficient washer saves 440 lbs. of CO₂ and \$45 annually. Switch to a fan instead of another air conditioner saves 400 lbs. of CO₂ and \$22 annually.

4 Hang Up
 Don't run that drier. Hang dry your clothes and save 1400 lbs. of CO₂ and \$150 annually.

5 Drive Wise
 A well-tuned car with properly inflated tires burns less gasoline - cutting pollution and saving you money at the pump. For each day you carpool you'll save 1590 lbs. of CO₂ and \$500 annually. Trade in your old car for a hybrid and save 16,000 lbs. of CO₂ and \$3750 each year.

6 Stay Warm
 Switch to a tankless or instantaneous water heater and save 300 lbs. of CO₂ and \$390 a year in water bills.

7 Unplug
 Plugged in appliances still consume energy, known as the "phantom load." Unplug appliances when not in use and save 1250 lbs. of CO₂ and over \$256 a year.

This worksheet is VERY general in order to highlight the potential reductions in carbon dioxide emissions that each home can achieve. To calculate your specific energy usage and potential reductions, visit www.keepwarm.illinois.gov for a do-it-yourself energy audit online.



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