

CARBON DIOXIDE EMISSION REDUCTION ACTIONS

As a member of Salem Electric, the average emissions reduction for each kilowatt hour saved, based on our generation resources, is about .08 pounds of carbon dioxide. Saving one therm of natural gas eliminates 11 pounds of carbon dioxide. Burning one gallon of regular grade gasoline emits 20 pounds of carbon dioxide to the atmosphere.

LOW COST OPPORTUNITIES: ([Click here for more low-cost ideas.](#))

ACTION	ANNUAL CO2 REDUCTION
Unplug/dispose of old refrigerator in basement.	220 pounds
Replace old refrigerator (at least 10 years old) with ENERGY STAR fridge.	202 pounds
Replace less than 10-year-old refrigerator with an ENERGY STAR fridge.	7 pounds
Replace old clothes washer (at least 10 years old) with new ENERGY STAR clothes washer.	75 pounds
Replace less than 10-year-old clothes washer with ENERGY STAR clothes washer.	42 pounds
Line dry clothes in the summer.	69 pounds
Line dry clothes all year (using indoor clothes drying rack adds benefit of additional humidity in the winter).	123 pounds
Cut phantom electric loads in half. (Phantom loads account for 6% of electric usage in the US).	26 pounds
Turn off home office equipment when not in use.	12 pounds
Run your dishwasher only with a full load. Use the energy-saving setting to dry dishes. Don't use heat when drying.	18 pounds
Replace less than 10 year old dishwasher with an ENERGY STAR dishwasher.	9 pounds
Select an ENERGY STAR model when buying a new television.	6 pounds
Select an ENERGY STAR model when buying a new VCR.	3 pounds

HOME HEATING AND COOLING:

Contact our Member Services Department (503 362-3601) and ask for a home energy audit to find out if your home is poorly insulated or energy-inefficient. The CO2 reduction could potentially add up to thousands of pounds a year. [Click here for program details.](#)

ACTION	ANNUAL CO2 REDUCTION
Don't overheat or overcool rooms. Adjust your thermostat (lower in winter, higher in summer.	for each 2-degree adjustment: 44 pounds
Clean or replace air filters as recommended. Cleaning a dirty air conditioner filter can save 5% of the energy used.	15 pounds
When purchasing an air conditioner select an energy-efficient model (9.0 to 12.0 SEER).	16 pounds
Install programmable thermostat to automatically adjust temperatures.	53 pounds
Insulate your walls and ceilings; saving about 25% of home heating bills.	Up to 176 pounds
Replace your old furnace with an <u>ENERGY STAR</u> -rated furnace.	132 pounds
If you need to replace your windows, install the best energy-saving models. (.32 U-value or lower)	Up to 880 pounds
Plant trees next to your home. Evergreens to the North & West, deciduous trees to the South & East to shade home.	About 176 pounds
Seal and insulate heating and cooling ducts.	59 pounds
Insulate your conditioned basement.	66 pounds
Add low-e films on windows.	33 pounds
Caulk and weatherstrip around doors and windows to stop air leaks.	119 pounds

LIGHTING: [Click here for lighting information.](#)

ACTION	CO2 REDUCTION
Buy energy-efficient compact fluorescent bulbs.	(by replacing one frequently used bulb): about 9 pounds
Turn off unneeded lights.	33 pounds a year
Replace outdoor incandescent holiday lights with LED.	202 pounds (10 strings a season)
Replace halogen lamp with compact fluorescent lamp.	42 pounds a year

WATER:

ACTION	ANNUAL CO2 REDUCTION
Take shorter showers. (Showers account for 2/3 water heating costs.)	31 pounds
Wash clothes in warm or cold water, not hot.	(for two loads a week): 44 pounds
Turn down your water heater thermostat; 130 degrees to kill bacteria if you have a dishwasher, otherwise 120 degrees usually hot enough.	(for each 10 degree adjustment): 44 pounds
Install low-flow shower heads.	Up to 26 pounds
Install high efficiency faucet aerators	2 pounds per faucet
If you need a new hot water heater, buy an energy-efficient model. (.93 energy factor)	17 pounds
Wrap your water heater in an insulating jacket (only if it is over 5 years old).	Up to 88 pounds
Replace water bed with standard bed.	114 pounds

GETTING AROUND:

ACTION	ANNUAL CO2 REDUCTION
Whenever possible walk, bike, carpool or use mass transit.	(for every gallon of gasoline you save): 20 pounds
When you buy a car, choose one that gets good gas mileage.	(if your new car gets 10 mpg more than your old one): about 10,000 pounds
Buy a hybrid car. The average driver saves \$3,750 per year.	16,000 pounds
Check the inflation in your auto's tires monthly.	250 pounds
Change your auto's air filter according to manufacturer's specifications.	200 pounds

RENEWABLES:

ACTION	ANNUAL CO2 REDUCTION
Add solar water heating system.	132 pounds
Install a photovoltaic system to replace 10% of your annual electric needs	126 pounds
Buy 100% post consumer recycled paper for your printer	5 pounds per ream of paper

REDUCE, REUSE, RECYCLE:

ACTION	ANNUAL CO2 REDUCTION
Reduce waste by recycling	If you cut down your garbage by 25%: 1000 pounds
Reduce waste by buying minimally packaged goods; choose reusable products over disposable ones, begin composting, reuse garbage bags, and buy food in bulk.	If you cut down your garbage in this way by 10%: 900 pounds
Use a manual push mower.	80 pounds
Bring cloth bags to the market; reduces waste.	

WEBSITE REFERENCES:

Carbon Counter

<http://www.carboncounter.org/>

Count Down Your Carbon

<http://www.countdownyourcarbon.org/calculator.php>

Oregon Peace Works

<http://tinyurl.com/OregonPeaceWorks>

Sustainable Pacific Grove:

http://www.sustainablepg.org/green/carb_calc.php

U.S. Department of Environmental Quality:

http://www.epa.gov/climatechange/emissions/ind_calculator.html

British Petroleum:

<http://www.bp.com/extendedsectiongenericarticle.do?categoryId=9021749&contentId=7044493>

EcoFootprint Worksheet:

<http://tinyurl.com/EcoFootprintWorksheet>

Carbon Dioxide Emission Conversion Table:

<http://www.asknumbers.com/CarbonEmissionConversion.aspx>