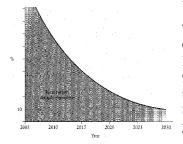


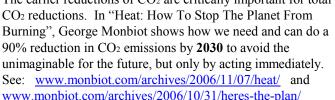
In 2005, the Joint Science Academies of Canada, Brazil, United States, China, France, Germany, India, Italy, Japan, Russia, and the UK wrote, "Carbon dioxide can remain in the atmosphere for many decades. Even with possible lowered CO2 emission rates we will be experiencing the impacts of climate change throughout the 21st century and beyond. Failure to implement significant reductions in net greenhouse gas emissions now, will make the job much harder in future." See www.nationalacademies.org/onpi/06072005.pdf

In 2007, United States Climate Action Partnership (GE, Alcoa, BP America, Caterpillar, Duke Energy, DuPont, and several others) wrote: "the scientific understanding of climate change is now sufficiently clear to justify nations taking prompt actions." See www.us-cap.org "Each year we delay action to control emissions increases the risk of unavoidable consequences that could necessitate even steeper reductions in the future, at potentially greater economic cost and social disruption. Action sooner rather than later preserves valuable options..."

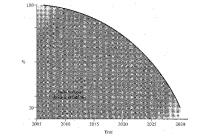


Fast CO2 reduction = LESS TOTAL CO2

The earlier reductions of CO₂ are critically important for total CO2 reductions. In "Heat: How To Stop The Planet From Burning", George Monbiot shows how we need and can do a 90% reduction in CO2 emissions by 2030 to avoid the unimaginable for the future, but only by acting immediately. See: www.monbiot.com/archives/2006/11/07/heat/ and



(Excerpted from Heat: How to Stop the Planet from Burning by George Monbiot. Copyright © 2006 George Monbiot. Reprinted by permission of Doubleday Canada.)



Slow CO2 reduction = MORE TOTAL CO2

"Except for giant meteorite strikes or other catastrophes every 100 million years or so, Earth has never experienced anything like the contemporary human juggernaut." (p84 The Creation: An Appeal To Save Life On Earth by E.O.Wilson 2006) "From excess CO2 and species' habitat destruction, by 2050, 25% of now alive species will be extinct and 50% will be extinct by 2100, at current rates. Land and sea, animal and plant species are experiencing the same fate." (E.O.Wilson, CharlieRose interview, Dec06)

"Blame for global warming placed firmly on humankind" Feb.2, 2007.

See: http://environment.newscientist.com/article/dn11088-blame-for-global-warming-placed-firmly-on-humankind.html

Yet still, "How often do scientists have to remind the media that a handful of cherry-picked studies does not amount to the refutation of an entire discipline?" See: www.monbiot.com/archives/2007/01/30/another-species-of-denial/ PAGE 1 OF 3

What Can I Do To Lessen CO₂?

Remember: Every little bit less helps & speak up!

At Home You can lessen your CO₂ output and lower your bills by more than 30%.

- ~ **Before buying/doing one more thing for your home** ,check http://oee.nrcan.gc.ca/energystar/ The sites are treasures of ideas for saving money/energy. Replace old fridges. Front load washers are way more efficient.
- ~ Replace one regular incandescent light bulbs with a compact fluorescent that uses about 75% less energy and save about 70 kilograms(kg)/150 pounds(lb) of CO2 a year per bulb replaced.
- ~ Move your thermostat down 1°C/2°F in winter and up 1°C/2°F in summer and save about 900 kg/2000 lb of CO2 a year, and you probably will not notice a difference.
- ~ Clean or replace filters on your furnace and air conditioner. A clean air filter can save 160 kg/350 lb a year, as well as cut down on allergens.
- ~ Use less hot water. Install a low-flow showerhead (saves 160 kg/350 lb per year) and wash your clothes in cold or warm water (saves 225 kg/500 lb per year). Use washer only when full.
- ~ Turn off and unplug electronic devices. Simply turning off your television, DVD player, stereo, and computer when you're not using them will save thousands of kilograms/pounds a year. If not using them for awhile, unplug things like hair dryer, cell phone chargers, or anything with a remote, like the TV off at the wall. The energy used to keep memory chips working accounts for 5% of total energy used and spews 18 million tons into the atmosphere every year!
- ~ Get a home energy audit and switch to green power when available. Many utilities offer free audits to find where your home is poorly insulated or energy inefficient. You can save up to 30% off your energy bill and 450 kg/1000 lb of CO2 yearly. Request switching to energy generated by clean renewable sources such as wind or solar, whether or not it is available yet.
- ~ **Recycle more**. Save about 1100 kg/2400 lb of CO2 yearly recycling half your household waste. Try to get your local government to encourage recycling financially.

On the Road One third of CO₂ emissions come from cars, trucks, and airplanes.

- ~ Turn off vehicles not moving. This will avoid making tons of CO2 every year.
- ~ **Reduce your mileage.** Avoiding just 16 kilometers(km)/10 miles(mi) each week would eliminate about 225 kg/500 lb of CO2 a year! Combine errands. Walk/bike local errands. **Fly way less, if at all.** A jet plane appears to do far more damage/person, even at full load, than most land vehicles for each mile or km covered and we know how many km/mi planes cover. **Car pool** and stop tons of CO2 daily.
- ~ **Keep your vehicle tuned and your tires properly inflated.** When just 1% of car owners properly maintain their cars, nearly a billion pounds of CO2 are kept out of the atmosphere. Properly inflated tires can lessen gas use more than 3%.
- ~ When it's time for a new car, choose a fuel efficient one. You can save 1400 kg/3000 lb of CO2 every year if your new car gets only 3 miles per gallon (mpg) more. Hybrids get up to 60 or 70 mpg or 4 L/100 km. For enviro-friendlier vehicles check: http://www.epa.gov/autoemissions/ You may also find the fuel consumption and general purpose converter at: http://www.members.optusnet.com.au/ncrick/converters/fuelcons.html helpful.

At Work ~ **Walk or bike to work and lunch.** Try to work from home. Pass these ideas along. Get more ideas at www.newscientist.com, www.newscie

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What Can I Expect My Reps To Do?