"CITIZENS FOR CLEAN & GREEN" - CAMPAIGN PLEDGE

I pledge to begin taking the following actions to reduce my carbon footprint, to lower the impacts of my lifestyle on the environment, and to help make Roanoke a greener place to live, work and play. Commit to this pledge online in the *Clean & Green* link at www.roanokeva.gov or mail your contact info with the card on the back to: Ken Cronin, Department of General Services, 215 Church Avenue SW, Roanoke, VA 24011.



TIER 1 COMMITMENTS - Easy

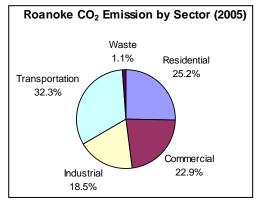
11111	COMMITMENTS Easy
	Participate in the city's recycling program by recycling aluminum cans, steel, clear glass, paper and plastics (#1, #2). Recycled aluminum uses 95% less energy than virgin aluminum from bauxite ore.
	Adjust your thermostat to 78 °F or higher in summer and 68 °F or lower in winter. • Energy savings can be as much as 1% for each degree set higher in summer and lower in winter.²
	Replace the most frequently used incandescent light bulbs with compact fluorescent light (CFL) bulbs immediately; replace all other incandescent bulbs with CFLs as they burn out. Save \$30 over the life of each CFL bulb. If every US home installed 1 CFL bulb, the energy saved would light >3 million homes/year, save >\$600 million/year in energy costs, and prevent greenhouse gases equivalent to the emissions of more than 800,000 cars. ³
	Turn off lights when not in use; unplug electronics and chargers when not in use; set computers to "power saving mode" o Enabling computer power management options can save as much as 60-80% of the energy that would have been wasted.4
	Maintain proper air pressure in vehicle tires. • Improve fuel economy up to 3%. 5 Save 50 - 100 gallons of gas per year per vehicle (over 100,000 registered vehicles in Roanoke).
TIER 2	COMMITMENTS - Moderate
	Minimize hot water use through installation of water saving fixtures and showerheads, insulating your water heater, and turning down the temperature setting on your water heater. • Water heating accounts for approximately 20% of total home energy use and costs an average household over \$300 a year.
	Plug air leaks around windows, doors and other wall penetrations with weather stripping, caulk or insulation. o Air leakage can add 10% to your annual energy bill which equates to about \$70 per year for the average home.
	Discontinue the daily use of second refrigerators. 20% of all households use a second refrigerator which is typically 10 years old, uses over 1000 kWh, and costs \$100 to run annually.8
	Wash clothes in cold water; dry laundry using a clothesline instead of using the dryer whenever possible. • Heating water accounts for 85-90% of the energy to wash clothes. Dryers are high energy users with no Energy Star models. ⁹
	Bike, walk, carpool or use public transportation to get to work at least once per week. • For each individual, a 5 mile roundtrip by car avoided weekly would reduce carbon dioxide emissions by about 200 lbs. 10
TIER 3	COMMITMENTS - More Difficult
	Reduce "vampire" energy use with a "smart power strip" that senses when appliances are off. Output value of the sense of
	Buy a programmable thermostat and set your thermostat back overnight or when the house is empty during the day. Save 5 - 10% of the energy and cost to cool/heat your house by setting the thermostat 5 - 10 degrees warmer/cooler. 12
	Seal and insulate ducts for air conditioning and forced air heating systems; check for adequate attic insulation levels. o In a typical house, 20% of the air that moves through the duct system is lost due to leaks, holes, and poorly connected ducts. ¹³
	Choose Energy Star appliances and electronic devices whenever purchasing these items. Over 30% of all electricity use in a house is for kitchen and laundry appliances. 14
	When purchasing a new/used vehicle, select models that get at least 20% better fuel economy than your current vehicle. 30% of all greenhouse gas emissions in the US are a result of transportation. 15
	Measure your carbon footprint and strive to reduce it by at least 2% per year to help Roanoke meet its community wide carbon dioxide emissions reduction goal of 10% over the next 5 years.

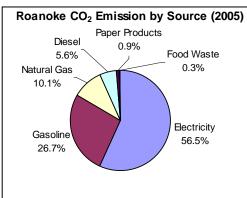
REFERENCES: www.eia.doe.gov/kids/energyfacts/saving/ 2http://apps1.eere.energy.gov/consumer/your_home/space_heating_cooling/index.cfm/mytopic=12720 www.energystar.gov/index.cfm?c=cfls.pr_cfls *Rocky Mountain Institute Home Energy Brief #7 - Electronics ⁵www.fueleconomy.gov/feg/maintain.shtml 6 Rocky Mountain Institute Home Energy Brief #5 - Water Heating Rocky Mountain Institute Home Energy Brief #1 - Building Envelope 8www.eia.doe.gov/emeu/reps/enduse/er01_us.html PROCKY Mountain Institute Home Energy Brief #6 - Cleaning Appliances 105 mile/week x 52 weeks/yr x 20 lbs CO_/gallon / 25 mile/gallon = 200 lb CO_ "www.ucsusa.org/publications/greentips/energy-vampires.html ¹²http://apps1.eere.energy.gov/consumer/your_home/space_heating_cooling/index.cfm/mytopic=12720 ¹³www.energystar.gov/index.cfm?c=home_improvement.hm_improvement_ducts 14 www.eia.doe.gov/emeu/reps/enduse/er01_us_figs.html#3 15 www.epa.gov/climatechange/emissions/usinventoryreport.html

RESOURCES:

- · City of Roanoke recycling bin request by calling 853-2000 (press option 1)
- · Free tire pressure gauge/Carpool Matching RIDE Solutions www.ridesolutions.org
- · Free water-conservation kits Western VA Water Authority office downtown
- · Roanoke bus routes & Star Line Trolley Information www.valleymetro.com
- · Energy Star appliances www.energystar.gov/
- · Vehicle Fuel Efficiency information www.fueleconomy.gov/
- · Carbon Calculator Roanoke Valley Cool Cities Coalition (RVCCC) www.rvccc.org
- Rocky Mountain Institute Household Energy Briefs http://nc.rmi.org/Page.aspx?pid=217&srcid=217
- · Calculate saving for unplugging your second refrigerator www.energystar.gov/index.cfm?fuseaction=refrig.calculator

ICLEI Community Emissions Inventory Roanoke 2005 Baseline Report





"CITIZENS FOR CLEAN & GREEN" - CAMPAIGN PLEDGE		
Name:		
Address:		
Phone:		
Email:		
Check the box if you would like more info about this initiative: $\ \square$		
Check the box if you have already completed a carbon footprint: $\ \Box$		
How many of the other commitments (1 – 15) do you already practice:		
Check the box if you would like to help your neighborhood or organization participate in this initiative: $\hfill \Box$		
Mail to: Ken Cronin, Dept. of General Services, 215 Church Avenue SW, Roanoke, VA 24011.		