

2009 AOBA Green Conference

Conserving our Resources:

Sharing Multifamily Success Stories

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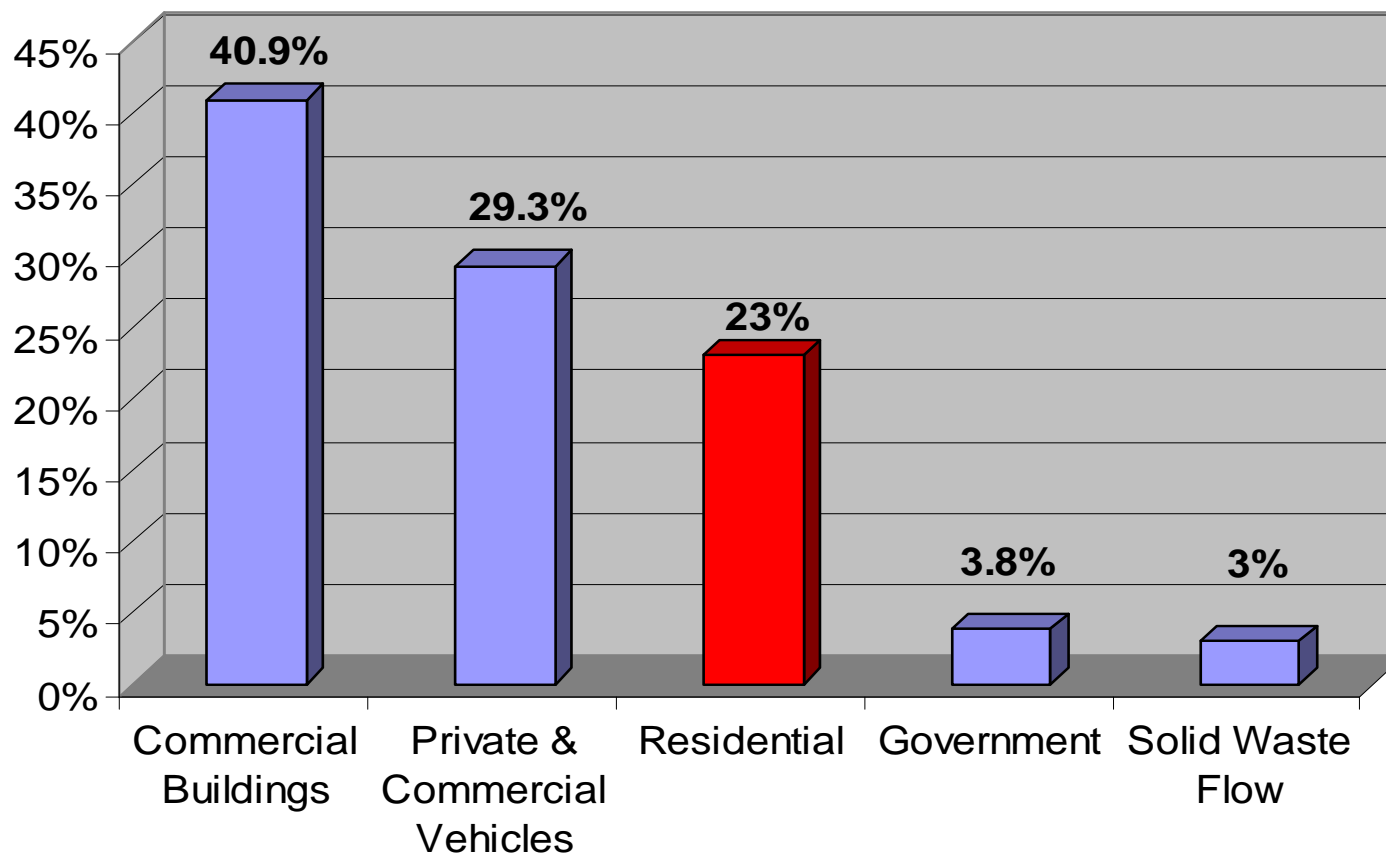
Arlington County, Virginia

September 30, 2009

Arlington GHG Inventory by Sector

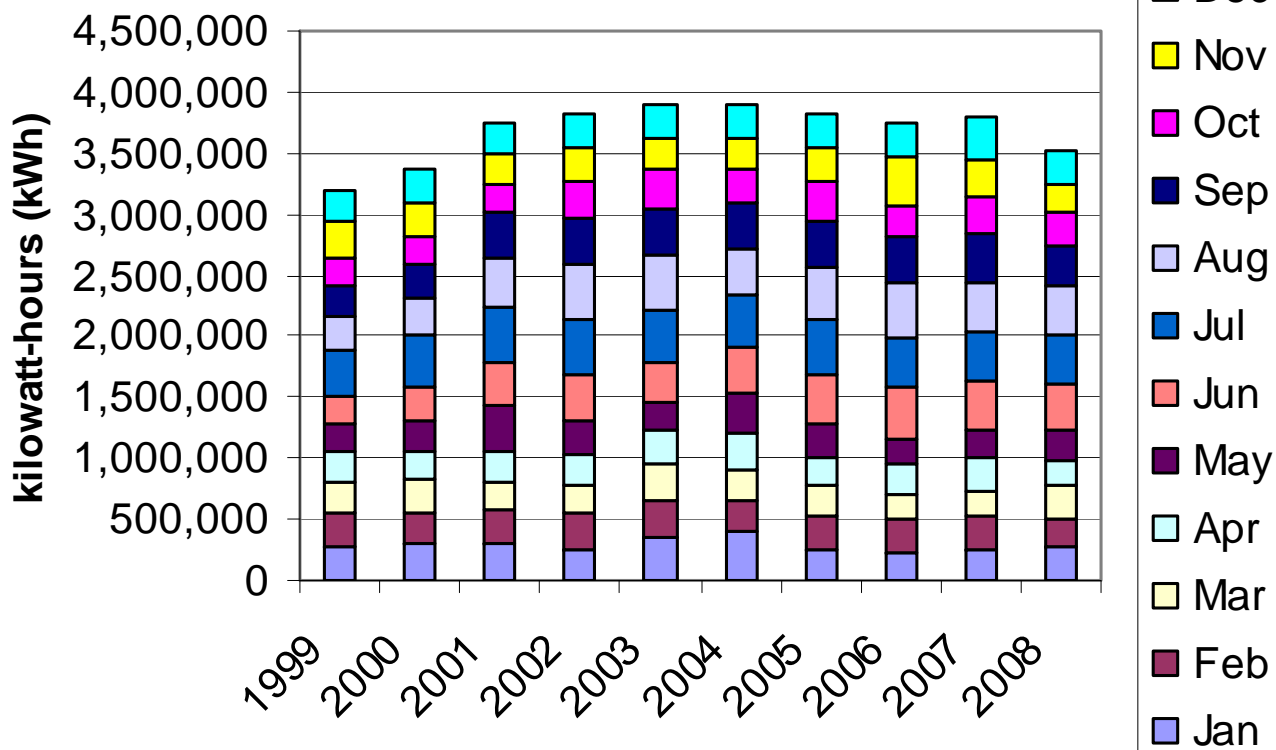
Total community emissions: 2.9 million tons CO₂-equivalent

Government < 4% of total, so community outreach critical

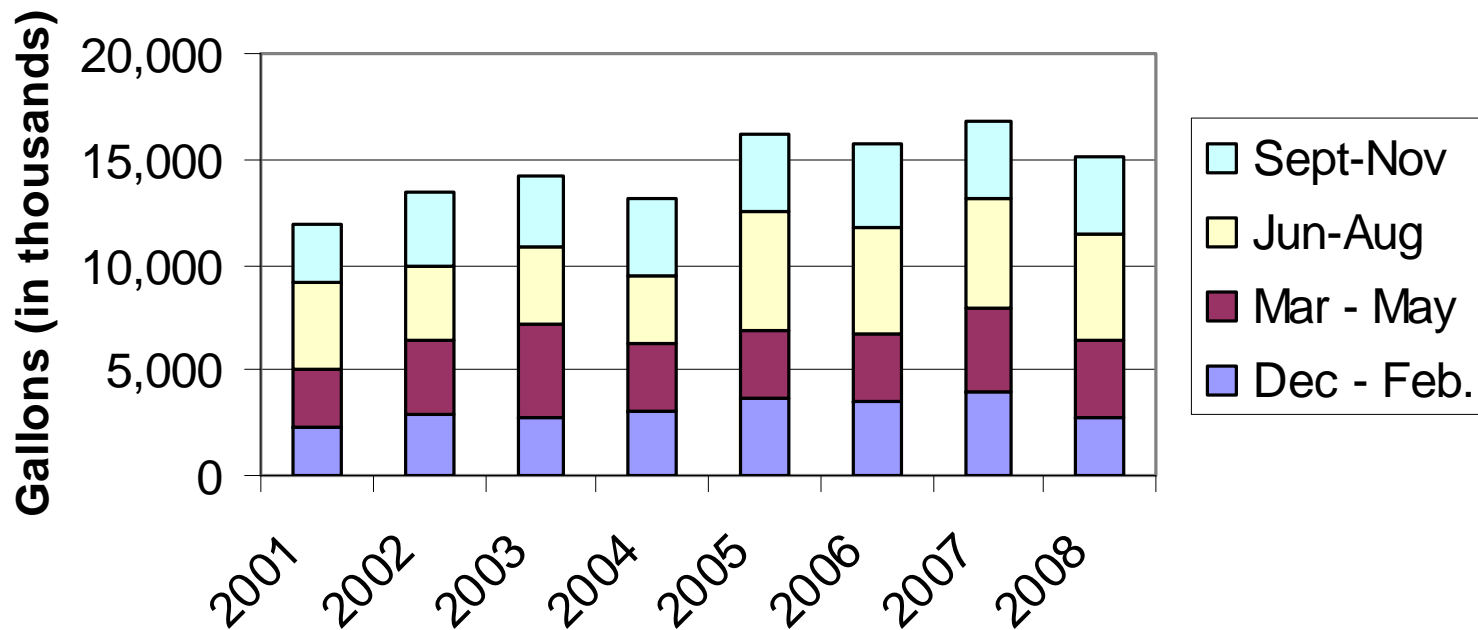


- Establish a baseline of energy use.
- You can't manage what you don't measure.
- A baseline is useful for the common areas (electric & gas use that are 'managed' by management company) as well as individual units, if you have individual billings.

**~350 Unit MF Bldg in Arlington
Electricity Use**



~350 Unit MF Bldg in Arlington Water Use



Choosing a CFL: Color, Size and Wattage

COLOR Temp

The higher the number in kelvins, the 'cooler', i.e., bluer, the light is. Some vendors do not include the kelvin value on their packaging.



Soft white
(2700K)

Color temperature
Warm white or Soft White
White or Bright White
Cool white
Daylight

SIZE and SHAPE

Bare Products		Covered Products	
Mini-Spiral or Twist	Tube or Universal	Incandescent/A-line	Globe G25, G30, G40

WATTAGE (Light Output)

LIGHT OUTPUT EQUIVALENCY

To determine which ENERGY STAR qualified light bulb is as bright as your current incandescent light bulb, compare the wattage of the incandescent bulb to the lumens of the ENERGY STAR qualified bulb.

Incandescent Light Bulbs	Minimum Light Output (Lumens)
40	450
60	800
75	1,100
100	1,600
150	2,600



Sad, but necessary.....!

g



n:vision
daylight

10 Simple Steps to Save Money & Energy at Home



1. Change incandescent bulbs to compact fluorescent light bulbs. CFLs use 75% less energy and last 10 times as long.



2. Unplug vampire loads. Also called phantom loads, these are items that use power even when off, such as cell phone chargers and anything with a light, clock or standby mode. These are called vampire loads because they 'draw' power 24/7/365. Unplugging items you're not using can save you up to 10% on your power bill.



3. Make your own Toilet Tummy. Clean out an empty half-gallon milk jug. Fill it with a few rocks and water all the way to the top. Cap it and put it in your toilet tank. This will save a half-gallon of water every time you flush.



4. Install low-flow aerators on sinks and low-flow showerheads in the bathroom. You'll reduce your water use by 40% when upgrading from 2.5 gallons per minute (gpm) to 1.5 gpm fixtures!



5. Caulk or weatherstrip windows and doors. Materials for the average twelve-window, two-door house cost about \$25, but the savings in annual energy costs can amount to more than 10% of your yearly heating bill.



6. Install a hot water heater blanket. This will allow your water to stay warmer while using less energy. Also set your water heater to 120°F.



7. Install an ENERGY STAR rated thermostat. ENERGY STAR thermostats allow for setbacks while sleeping and while away from home during the day or on vacation to save money.



8. When replacing appliances, purchase ENERGY STAR and WaterSense items. These items have been benchmarked against all other appliances in the industry and use significantly less water and energy than other products.



9. Rethink clothes drying. For the most energy savings, hang your up clothes to dry. You'll reduce CO₂ emissions, and your clothes will last longer! When you do use your dryer, clean the lint filter before each load and use a moisture sensor or the cool-down cycle, which uses residual heat to complete the drying process.



10. Install a rain barrel. This helps prevent stormwater runoff and erosion, increase groundwater recharge, and allows you to water your garden or lawn without using treated water.

AIRE is your source for information on how to reduce your environmental impact at home, at work, and all around Arlington! Learn more about our programs and how County government is reducing its own emissions.

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USE LESS HOT WATER

Save energy by **lowering your water temperature** from 140 degrees to 120 degrees. **Insulate your water heater** with a simple insulating blanket found at any hardware store. And if you are really ambitious, install solar water heating on your roof.

Install a low flow showerhead and wash your clothes in cold water (saves 500 pounds of CO₂/year). Only wash full loads of laundry and full dishwashers.

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ADJUST YOUR THERMOSTAT

Turn your thermostat down by two degrees in the winter and up two degrees in the summer. This saves nearly 2,000 pounds of CO₂/year and saves you money.

When you leave town on a trip, turn your thermostat down (or up in the summer). Install a **programmable thermostat** (\$100 or less) and program the temperature to automatically adjust to your schedule. You can recover the investment in the first year.



DYE TABS + TOILET TUMMY



STEP 4: LOW-FLOW FIXTURES



Arlington Initiative to Reduce Emissions

www.arlingtonva.us/climate

www.arlingtonclimateblog.com



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