An Orange Goes Green Initiative!

City of Orange

A GREEN House Is Not Just For Plants

Going Green starts at home! Start saving money and the environment by insulating your home, utilizing modern heating and lighting, and swapping your wasteful toilets and washers for energy efficient models. Together, we can turn Orange *GREEN*!

- In 2007, residents of Orange used 28% of the City's energy consumption.[1]
- The average price of residential electricity in California has increased by 50% (from 10 to 15 cents/KWh) since 1990.[2]
- Energy use in buildings produced 36% of the carbon equivalent U.S. greenhouse gas emissions in 2006.[3]
- A leaky, household water line, which drips 1 gallon every 10 minutes, wastes (and costs) 144 gallons per day or 52,560 gallons per year.[4]
- Residents accounted for 65% of the City's water use in 2007.[5]
- Since 1990, 2,062 mil. gal. of water have been saved through water rebates in the City.[6]

Source: [1] Southern California Edison, City of Orange Electricity Usage Report 2007 (October 2008). [2] Energy Information Administration. (EIA), State Electricity Profiles 2006 (November 21, 2007). [3] Energy Information Administration (EIA), Emissions of Greenhouse Gases in the United States 2006 (November 2007). [4] California Urban Water Conservation Council (2008). [5] Public Works Water Division. (2008). [6] Municipal Water District of Orange County (MWDOC)(2008).

Green Household Tips

Insulate your wallet! – Sealing cracks, replacing windows and upgrading or adding insulation to your attic and walls adds up in the long run. Insulating your attic (with R-30 or higher) and walls (with R-13 or higher) are often affordable do-it-yourself, cost-saving measures. Changing your door seal or caulking around outlets will reduce drafts in winter and heat gain in summer. Replacing inefficient windows with newer, low-E models will help regulate a comfortable year-round household temperature, while saving you at least 15% on your energy bill. Insulating the whole building versus a few changes will result in a dramatic savings.

Flip the switch! – Turn off unused lights and unscrew bulbs in areas where they are not needed. Switch to compact florescent lighting (CFLs). CFL's use 75% less energy than a standard incandescent bulb and last up to 10 times longer. You may want to retain conventional bulbs for your bathrooms, due to the shorter duration of light use. Consider installing occupancy sensors to turn the lights off for you.

Paint it GREEN! – Use low or zero-Volatile Organic Compounds (VOC) paint and stains. There are a wide variety of natural products. Read labels and look for green certified products, such as Green Seal. Use a brush not a sprayer to cut down on air-born particles. It is estimated that painting homes and structures in the region attribute five times the air pollution caused by regional oil refineries (50 tons/day).

Maintenance is key! – Perform routine maintenance on your household electronic devices, such as filter or vent cleaning and replacement, and household dusting to reduce inefficient machine function, limit unnecessary household heat gain, and improve the lifespan of your equipment. Clean your refrigerator coils at least once every six months to increase energy efficiency. Always leave room from the wall when putting it in place. If the doors have trouble sealing, clean or replace the doorjamb. It helps to make a maintenance schedule for your appliances as a reminder, and consult your user manuals as necessary.

Treat yourself! – Replace your old, wasteful water appliances, such as clothes and dish washers with newer Energy Star models. A high efficiency clothes washer saves up to 24 gal./day. According to the U.S. Department of Energy, "an Energy Star-labeled clothes washer saves 7,000 gal./year over their 11-year lifecycle or enough to provide a lifetime of drinking water for six people." Check out the rebates!

History is sustainable – Historic homes often have many green features, notably their lasting construction. Before starting on any restoration or remodeling projects for your historic home or building, please consult the Old Towne Design Standards and contact the City's Historic Preservation Planner for guidance at (714) 744-7220.

Did you know? - You can prevent 500 lbs. of Carbon Dioxide emissions a year by adjusting your thermostat 2° lower in the winter and 2° higher in the summer. Turn the switch & make a difference.

Save big! – Replace your old toilet with newer, water efficient models. High efficiency toilets save up to 38 gallons per toilet per day. At a minimum, insure that your toilet isn't leaking.

Take it outside! – Secondhand smoke is a leading cause of asthma in the home. If you are a smoker, avoid smoking in the home or car.

What's on the wall? – Excess moisture in your closets, shoes and dark corners of the house can breed mold and mildew and decrease indoor air quality. Discolorations in the paint may be a sign of a problem. Replace moldy ceiling tiles and carpet right away. In extreme cases, consult a professional.

Try a gas log! – Switch wood burning devices to cleaner natural gas. Roughly 1.4 million homes in the Southland use wood-burning stoves and devices, emitting an average of six tons/day of fine particulate matter (PM2.5) into the air (more than four times all the power plants in the four-county region).

Rebates and Other Incentives

Don't forget your rebates and incentives! For your convenience, here are some of the more popular offerings. Most rebates have limited funding and are provided on a first come first serve basis. Please check with the rebate agency or utility service provider for more information on the latest programs and always file rebate requests in a timely manner.

Historic Home in Old Towne Orange (2007).

Provider	***Program***	***Rebate / Incentive***
SoCal Water$mart http://socalwatersmart.com	High efficiency clothes washer	$85 or more
	High efficiency toilet	$100
Southern California Edison Rebates www.sce.com/residential/rebates-savings/ rebates-savings.htm	Energy-Star Refrigerators	$50 while available
	Energy efficient electric water heater	$30 while available
	Energy-Star room air conditioner	$50
	Whole house fan	$50
	Energy efficient evaporative cooling system	$300-600 per type
	Summer Discount Plan	up to $200/ year
www.scelampexchange.com/	*Operation Light Exchange* halogen floor lamps and incandescent floor/table/desk lamp & night lights for newer E-Star models.	Exchange
Air Quality Management District www.aqmd.gov/aqmd/funding.html	*Healthy Hearths* gas log purchase and install incentive	$125
State of California - Tax Credits www.csi-trigger.com/	Exemptions for select solar energy systems through Dec. 2016	State credit 100% of system
	Solar Initiative	Rebate varies
U.S. Government - Tax Credits www.energystar.gov/index.cfm? c=products.pr_tax_credits#7	Energy efficient home upgrades between Jan. 2009 and Dec. 2010	Federal credit 30% of system, up to $1,500 over 2-yr
	Solar-electric installs on or before Dec. 31, 2016	Above w/ no max. if after '08
	Solar water-heating installs on or before Dec. 31, 2016	Above w/ no max. if after '08
	Fuel cell installs on or before Dec. 31, 2016	Above w/ $500 max./half kW
	Small wind-energy installs before Dec. 31, 2016	Above w/ no max.. if after '08
	Geothermal heat pumps installs before Dec. 31, 2016	Above w/ no max.. if after '08

Resources

- Get a FREE energy audit from Southern California Edison www.sce.com/_Tools/Residential/HomeEnergySurvey.htm?from=redirect
- Energy Efficient Rehab Advisor – Guidelines and cost-benefit assessment for rehabilitating your home. http://rehabadvisor.pathnet.org
- California Energy Commission – Energy efficient programs, rebates and tips. www.consumerenergycenter.org
- California Indoor Air Quality Program (Bilingual site). www.cal-iaq.org
- South Coast Air Quality Management District – Steps for Painters. www.aqmd.gov/prdas/Coatings/youcanhelp.htm
- Metropolitan Water District of Southern California – Water programs, rebates and tips. www.bewaterwise.com
- California Urban Water Conservation Council – Water Saver's www.h2ouse.org
- American Water Works Association (AWWA) – Drip Calculator www.awwa.org/awwa/waterwiser/dripcalc.cfm

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