



Green Communities Program

Dunwoody Employee Education

An educational series hosted by the Sustainability Committee

Green Communities Program



Employee Education Component:

- Green Buildings policy
- LED Traffic Lights
- Lights off/power down policy
- Environmentally-friendly purchasing policy
- Bicycle Parking
- Government landscaping practices
- No idling policy
- Green infrastructure project

Green Buildings Policy

- LEED
- ENERGY STAR
- WaterSense plumbing fixtures



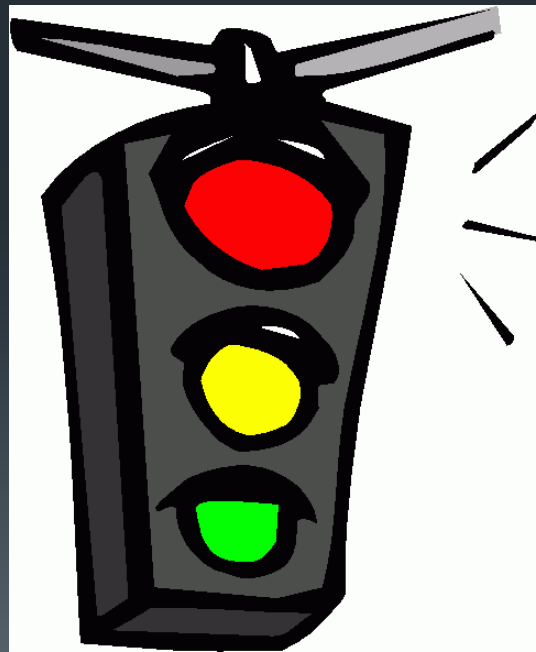
Plumbing Fixture Retrofits



- All new plumbing fixtures installed shall be WaterSense labeled with the following minimum efficiency rates:
 - Toilets: 1.1 gpf
 - Urinals: 0.125 gpf
 - Faucets/aerator: 1.0 gpm, unless a higher flow rate is dictated by sink use (e.g.: kitchen prep sink).
- Existing inefficient toilets (3.5 gpf or greater), urinals (1.0 gpf or greater) and faucets/aerators (2.2 gpm or greater) in all buildings owned by the City shall be retrofitted with ultra-high plumbing fixtures meeting this policy based on a schedule adopted by City Council.

LED Traffic Lights

- Did you know the traffic lights in Dunwoody have been converted to LEDs?
- LED traffic lights use about 10 percent of the energy as an incandescent light and last about 50 times longer!



Lights Off/Power Down



- Simple behavioral changes have been shown to have a dramatic impact on electricity usage
 - Lights are turned off in any space—office, conference room, workroom, etc.—when the space is not being used. In particular, ensure that all office and work area lights are turned off at night, weekends, and holidays
 - Automatic sensors
 - Practice of turning off lights is monitored and that staff is directed to turn off lights at the end of the work day
 - Make certain that power is shut down on personal computers, printers, monitors, copiers, and miscellaneous office equipment at the end of each work day
 - Make certain that seldom used equipment items such as paper shredders, pencil sharpeners, electric staplers, punch machines, and televisions, are not plugged in except when ready to use
 - Encourage the utilization of natural light if work areas are located on the perimeter of a building with windows
 - Why?
 - Reduce costs
 - Improve environmental quality

Environmentally-Friendly Purchasing

- Adopted by Ordinance
- Minimum standards for items purchased for City


Components of the policy





- Highest percentage of post-consumer recovered material, the highest percentage of total recovered material available in the marketplace, and reduce waste in the manufacture and use of products and packaging purchased by the City




- Replace disposable with re-usable, recyclable, or compostable goods

- 
- Purchase copy, computer, and fax paper with at least 30 percent post-consumer recycled content
 - Folders
 - Notebooks

- 
- Purchase at least ENERGY STAR rated equipment and appliances for use in local government facilities when practicable based upon considerations of Life Cycle Costs
 - Computers
 - Printers
 - Appliances

- 
- Purchase non-emergency fleet vehicles that provide the best available net reduction in vehicle fleet emissions, including but not limited to the purchase of alternative fueled and hybrid vehicles

- 
- Purchase water-saving products, including WaterSense labeled, whenever practicable, including but not limited to, high performance fixtures such as toilets (1.28 gallons per flush or less), urinals (0.5 gallons per flush or less), low-flow faucets (1.5 gallons per minute or less), aerators, and upgraded high-efficiency irrigation systems



- Evaluate, as appropriate, the environmental performance of Vendors in providing Goods and Services

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Greenwashing

Greenwashing (a compound word modelled on "whitewash"), or "green sheen," is a form of spin in which green PR or green marketing is deceptively used to promote the perception that an organization's products, aims or policies are environmentally friendly.



<https://en.wikipedia.org/wiki/Greenwashin>



Description

Ideal for both business and personal use

- Made of 9.5 pt. manila stock for durability.
- Scored for 3/4" expansion.
- Greener choice — contains a minimum of 10% postconsumer recycled content.



Description

Ideal for organizing files or archives

- Assorted tab positions help speed retrieval time.
- Scored for 3/4" expansion.
- Made of manila stock for durability.
- Greener choice — contains 30% postconsumer recycled content.
- This folder will hold documents up to 8 1/2" x 14" in size.

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Recycled content

Office products

- White out
- Steno pads
- Post-Its
- Ink Pens



Break Room products



- Coffee
- Coffee cups
- Coffee stirrers
- Paper towels and plates
- Salt and pepper
- Cleaning products
- Cutlery

Things to consider

- Packaging
 - Favor larger items with less package waste
 - Favor refillable products
- Search for
 - Recycled content
 - Eco-friendly
 - Low VOCs
 - Plant starch



Product alternatives

- Tree Zero
 - Sugarcane

Description

100% "tree-free" paper — made entirely from bagasse (recycled sugarcane waste fiber)

- TreeFrog looks and feels like traditional paper yet doesn't pull new material from the environment. Bagasse is the sugarcane residue left after sugar and sugarcane juice has been extracted from the plant, thereby truly maximizing resources.
- Jam-free performance in inkjet and laser printers as well as color copiers.
- Acid-free paper resists fading and yellowing, keeping your documents crisp over time.
- Excellent 92 brightness delivers sharp contrast for your printouts.
- Certifications include ISO 9001/17025/14001, OHSAS 18001, BASC 2010 and Six Sigma.
- Fully recyclable, compostable and biodegradable .
- Eco-conscious choice — has one or more meaningful eco-attributes or eco-labels.
- Plant-based materials — helps you support innovative use of plants while reducing use of forests or other resources; may be safer for your health and the environment. Made using 100% bagasse- a tree-free agricultural product or by-product.



Environmentally-Friendly Purchasing

- Things to consider:
 - Minimization of virgin material used in Goods or Service life cycle;
 - Maximization of recycled materials used in Goods or Service life cycle;
 - Life cycle economics of Goods and Services;
 - Reuse of existing Goods or materials in Goods or Service life cycle;
 - Recyclability, biodegradability and compostability of Goods;
 - Minimization of packaging;
 - Reduction of energy and fuel consumption;
 - Reduction of water consumption;
 - Toxicity reduction or elimination;
 - Durability and maintenance requirements; and
 - Ultimate disposal of the Goods.

Third party certifications



- UL Environment
 - <http://productguide.ulenvironment.com/QuickSearch.aspx>
- Cradle to Cradle
 - <http://www.c2ccertified.org/products/registry>
- Energy STAR
 - <https://www.energystar.gov/products>
- Water Sense
 - <http://www3.epa.gov/watersense/products/>

Bicycle Parking



- Promotes bicycling as a safe, practical, and environmentally friendly mode of transportation and to facilitate the appropriate provision of secure, well designed, and effective on-site bicycle parking at City facilities, intended for public access.
- Bicycle racks for a minimum of four bicycles shall be located at or near all City of Dunwoody parks and community facilities owned or operated by the City. Said bicycle racks shall be provided in a location that is visible, well lit, and accessible from the street and buildings located on the site (if any).

LED Lightbulb Program



- LED bulbs have a higher efficacy rate, meaning they produce more lumens per watt than any other bulb and at a lower temperature. This allows the light to be brighter without compromising energy consumption or output.
- The City has begun its efforts to convert traditional bulbs by removing the old ones from the front desks lamps of the Community Development Department. The lamps are used for approximately eight hours per day, five days a week. The annual usage is approximately 2080 hours. The traditional bulbs are 40 Watts (0.04 kW), while the LEDs are 8 Watts (0.008 kW). At an estimated cost of \$0.10/kWh, it is projected that the incandescent consumes 83.2 kWh/year (\$8.32 dollars to operate), while the LED consumes only 16.6 kWh/year (\$1.66 dollars to operate). The City has realized a cost saving of \$6.66 and an energy savings of 66.4 kWh annually per replaced light bulb.
- In addition to desk bulb replacements, the City plans to add LEDs in ceiling fixtures in some of the more benign office locations due to the quality of technology in bulbs currently available.

Government Landscaping

- Use **integrated pest management** to minimize adverse environmental impact
- Minimize the use of pesticides by planting **native plant species** that are more resistant to pests. Regional plants also are more sustainable because they are adapted to the average rainfall and are less likely to require irrigated water;
- **Group plants with similar water needs**, and position them in appropriate habitat conditions, paying attention to sun exposure, soil conditions, size of planting area, and slope of the ground;
- **Sustain a mulch covering** of at least two inches in planted beds and tree saucers in order to protect soil

No Idling



- All City owned vehicles or other rolling stock as well all vehicles operated by employees of the City while doing the work of the City vehicles will not be parked with the engine operating for more than 30 seconds unless it is essential to the performance of work
- Initial “warm up” idling should be minimized. If a vehicle’s windows are clear, driving should be started after no more than 30 seconds of idling
- Initial “warm up” for diesel vehicles should be limited to 3-5 minutes, or as otherwise recommended by vehicle’s manufacturer

Green Infrastructure Project

- Did you know the planted areas near the pavilion in Pernoshal Park is designed to collect and filter stormwater? It's a bio-swale!



Commute Options



- This benefit is coming soon!

Infill Development



- Several developments implemented by the City are known as “infill developments.”
- According to the EPA, infill developments “have environmental benefits because they can reduce development pressure on outlying areas, helping to safeguard lands that serve important ecological functions; can reduce the amount that people drive, improving air quality and reducing greenhouse gas emissions; and can lead to the cleanup and reuse of formerly economically viable but now abandoned sites, including those contaminated with hazardous substances.”
- Check out the infill and greyfield developments in the City of Dunwoody:
 - Dunwoody Green
 - City Hall



Thank You!

- We will continue to update employees on the green initiatives that are taken as part of the Green Communities Program, as well as other green initiatives.