



Energy Spotlight

New Lighting Efficiency Regulations Begin Phase-Out of Most Incandescent Bulbs

Lighting efficiency requirements set forth in the Energy Independence and Security Act of 2007 became effective in January of this year. Aimed at transforming the nation's energy policies, provisions in the act call for new efficiency standards for incandescent bulbs. Beginning January 1, 2012, a 25 percent increase in efficiency is required for all light bulbs. Those bulbs not meeting this requirement will no longer be manufactured or imported into the United States.



continued on page 3

Water Highlights

Water Stewardship Act Prompts Increased Water Conservation among Area Businesses through Educational Opportunities

The passing of the Water Stewardship Act of 2010 has helped foster a more proactive and aggressive approach to protecting our water supply. In addition to tighter government regulations, conservation initiatives are also providing local businesses with the ability to save not only our natural resources, but company resources as well.

- ◆ Toilets — 1.28 gallon per flush.
- ◆ Shower heads — 2.5 gallon per minute at 60 psi.
- ◆ Urinals — 0.5 gallon per flush.
- ◆ Lavatory faucets — 1.5 gallon per minute at 60 psi.
- ◆ Kitchen faucets — 2.0 gallon per minute.

Beginning in July 2012, the legislation requires water efficient fixtures in all new residential and commercial construction, the installation of efficient cooling towers in new industrial construction, and the installation of sub-meters in multi-unit buildings. High-efficiency plumbing fixture guidelines include:



Putting Everyday Conservation into Practice

Since the act's inception, a number of new and ongoing educational opportunities have been helping to further water conservation efforts which ultimately result

Inside

12 Ways to Cut Workplace Water Costs without Cutting Comfort and Convenience

2

Gain More Time and Get More Done in Your Workday with Marietta Power and Water's QR Codes

2

Conserve and Save

12 Ways to Cut Workplace Water Costs without Cutting Comfort and Convenience

Although there are a number of fixed costs that you can't control in your business, your water bill doesn't have to be one of them. There are a number of ways to reduce workplace water use and your anxiety when opening your water bill each month. Here are a dozen effective strategies that can give your bottom line a respectable boost:

- ◆ Consider installing WaterSense labeled products in your building. WaterSense labeled toilets use at least 20 percent less water than conventional toilets.
- ◆ WaterSense labeled faucets and faucet accessories, such as aerators, use about 30 percent less water than traditional lavatory faucets and can save as much as 300 gallons of water per faucet per year. WaterSense labeled products provide equal or superior performance to standard models.

- ◆ Designate a water efficiency coordinator and develop a plan that includes a written water conservation policy.
- ◆ Involve employees in water efficiency efforts by creating an incentives system to recognize water-saving ideas.
- ◆ Establish a water reduction goal, publish your company's monthly water use reflecting the decrease and arrange a celebration when it is achieved.
- ◆ Shut off water in unused areas of your building.
- ◆ Have maintenance personnel routinely check your facility for leaks and drips.
- ◆ Post a number for employees to call to report leaks or other water wasters.
- ◆ Scrape dishes instead of rinsing before placing them in the dishwasher.

- ◆ Eliminate "once-through" cooling of equipment with municipal water by recycling water flow to cooling tower or replacing with air-cooled equipment.
- ◆ Make sure the irrigation system is operating properly and watering only intended areas of the landscape with no water running on sidewalks or streets.
- ◆ Wash company vehicles only as needed and use a commercial car wash that recycles water.

Put a little more padding in your monthly operations budget by conserving water. The money and water you save will serve your company well down the road.

For more water conservation tips, visit the Marietta Power and Water website at www.mariettapowerandwater.com. ☀

Quick and Easy

Gain More Time and Get More Done in Your Workday with Marietta Power and Water's QR Codes

Let Marietta Power and Water help you work a little smarter by saving a step or two with QR codes.

You've probably seen or utilized Quick Response, or QR, codes that give you the capability of visiting specific Web pages that are coded into each geometric square.

With QR codes, you don't have to go through the exercise of first landing on a website home page and then

navigating the site to reach the Web page you want to access.

Now, you'll be able to instantly access the Marietta Power and Water Web pages you visit frequently by simply snapping a photo on your smartphone of the QR codes on your Marietta Power and Water publications. ☀

fast FACTS on Energy Use

75%

The energy dollars you'll save with CFL bulbs.

- U.S. Department of Energy

Just for our Commercial Customers

Learn more about Marietta Power and Water's Commercial Customers Programs and Products at www.mariettapowerandwater.com. Click on the Power tab and then Commercial Customers. ☀



www.marietta.gov/city/mpw-home/power/commercial

The brightness of a light bulb is measured in lumens; the amount of energy a bulb uses is measured in wattage. A 100-watt incandescent bulb produces about 1,600 lumens. The new regulations stipulate that bulbs with this amount of brightness have a maximum wattage rating of 72 and most fail to meet this requirement.

In January 2013, 75-watt bulbs can use only 56 watts to produce the same amount of light. To replace the brightness of a 75-watt bulb, 1,100 lumens are necessary. In 2014, 40- and 60-watt lamps will follow in the phase-out with 450 lumens needed to replace the 40-watt bulb and 800 lumens or more to replace a 60-watt bulb. For floodlights, lumens need to be at least 10 times the wattage of the bulb being replaced.

A 200 percent increase in efficiency is required for all light bulbs by 2020.

Energy Saving Alternatives Offer Longer Bulb Life and Comparable Lighting

There are several options available on the market to replace the standard bulbs that have been around for more than 100 years. Halogens, LEDs and CFLs are some of the most commonly used lamps with a broad range of applications in the business environment. Here's a look at each:

✦ Halogens are a type of incandescent bulb with a capsule that contains halogen gas around a filament to increase light output. Used frequently in automotive headlamps, work lights and under-cabinet lighting, halogen bulbs have moderately high efficiency and quality of light. Halogens have a high bulb life in comparison to standard incandescent lamps, lasting up to three times longer. One factor to consider with halogens is the heat generated by the lamps.

✦ LEDs utilize light-emitting diodes in order to produce light. The materials used to generate the light are encased within a solid material. The solid structure of the bulb gives it a much longer life than those without a solid structure such as incandescent, halogen, and fluorescent.

In the workplace, LED lamps are well-suited for under-cabinet and some recessed lighting. LEDs are rated to last about 20,000 hours at which point they will burn at 70 percent of their brightness, getting progressively dimmer over time instead of burning out like incandescent bulbs. The light produced is similar to that of incandescent bulbs, with an ENERGY STAR®-qualified LED bulb about 75 percent more efficient and lasting 25 times longer. Although LEDs cost more, the bulb

will need replacing only about every 10 years and will pay for themselves over the course of that time in energy savings. Additionally, LEDs do not contain the mercury found in CFLs.

✦ CFLs, Compact-Fluorescents Lamps, are a type fluorescent bulbs designed to replace incandescent or halogen bulbs. Available in screw-in and plug-in form, screw in bulbs are self-ballasted and can typically be placed in an existing screw socket without any additional equipment. Plug-in bulbs require a ballast and a socket that suits to their specific base shape. CFLs are suitable for almost any workplace application with the exception of dimmers, timers or photo sensors. Producing about 62.5 lumens per watt, CFLs produce about four times the amount of light that comparable incandescent bulbs produce and last up to 10 times longer.

To help in determining which bulbs are better suited for your particular office environment, check the Lighting Facts label on bulb boxes that provides information such as brightness, estimated yearly cost, life, light appearance, energy used and if the bulb contains mercury. The Lighting Facts label is appearing on bulb boxes beginning this year. ☀

Customer Corner

How do I report a power or water outage?

To report an outage, call (770) 794-5160. You will be asked to enter your phone number so that our system can identify your location. ☀

fast FACTS on Energy Use

Incandescent bulbs of 40 watts and above will be banned in 2014.

- U.S. Department of Energy

Water Stewardship Act Prompts Increased Water Conservation among Area Businesses through Educational Opportunities continued from page 1

in significant money savings for area businesses. Conserve Water Georgia serves as the act's primary driver and clearinghouse of the Georgia Environmental Protection Division by promoting the conservation-oriented laws passed by the Georgia General Assembly and the rules and regulations adopted by the Board of Natural Resources.

Along with a variety of training programs, Conserve Water Georgia offers initiatives and water conservation tips for businesses. The 40 Gallon Challenge is one national initiative that began in 2011 calling for residents and businesses to reduce our region's water use on average by 40 gallons per person, per day.

Through a partnership with Conserve Water Georgia, the Alliance for Water Efficiency offers these water saving tips and tools for businesses and industries:

- ◆ A downloadable PDF featuring tips for saving water at your business including information on educating your co-workers and employees, on knowing your usage, identifying and fixing

leaks, maximizing the efficiency of your cooling tower, installing water efficient equipment and more.

- ◆ A separate PDF titled "WaterSmart Guidebook: A Water Use Efficiency Plan and Review Guide for New Businesses" along with PDFs highlighting individual industry water conservation tips.
- ◆ Information on auditing and methodology and a self-assessment checklist for businesses.
- ◆ A sustainable office toolkit.
- ◆ Home Water Works website with a special section on tips for commercial, industrial and institutional water use.

Committing to conservation will help safeguard our water supply for years to come and help give your business a stronger bottom line. For more information on water conservation, visit the Marietta Power and Water website at www.mariettapowerandwater.com or the Conserve Water Georgia website at www.conservewatergeorgia.net. ❁

Committing to conservation will help safeguard our water supply for years to come and help give your business a stronger bottom line.

CITY LIGHTS

Marietta Power and Water
675 North Marietta Pkwy.
Marietta, GA 30060-1528

