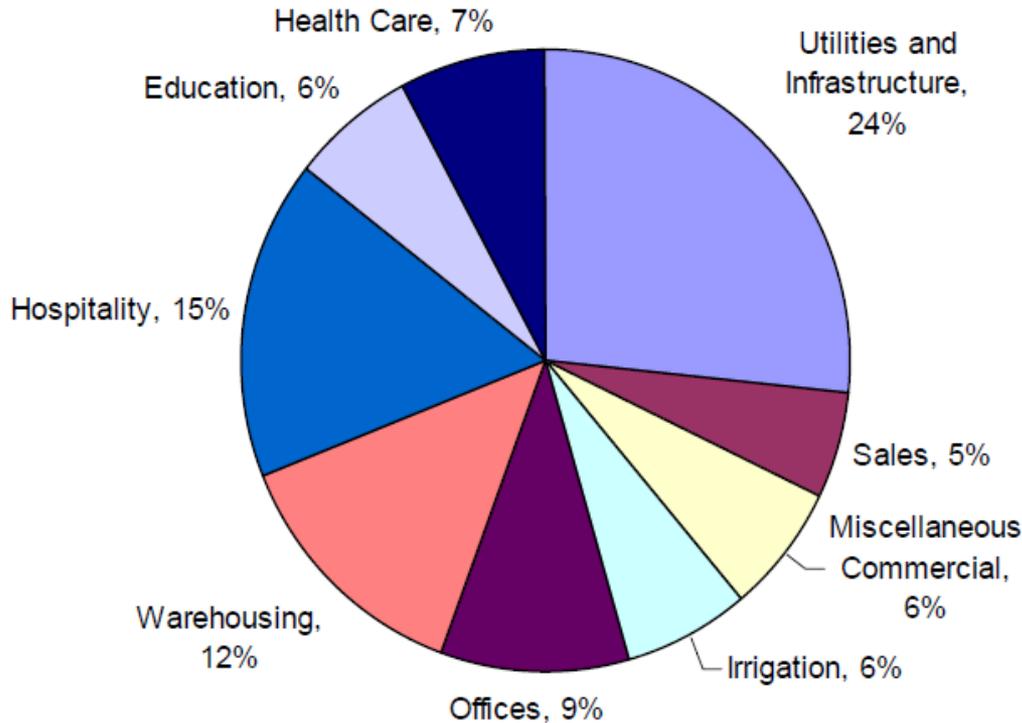


WaterSense – An opportunity for water and energy savings

State Agency Energy Advisory Group
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Estimated Commercial /Institutional Water Use



Domestic water use for plumbing fixtures (toilets, urinals, faucets, showerheads) represents 25 % to 50% of all water use within most of these facilities.

Water / Energy Link

- Electricity needed to:
 - Source, treat, transport and heat potable water
 - Collect, transport , treat and discharge waste water.

“Use of Water Efficient products present opportunities to reduce overall energy consumption”

What is WaterSense



- WaterSense is an EPA-sponsored partnership program
 - manufacturers, distributors, builders, utilities etc.
 - protect the future of our nation's water supply
 - promoting water-efficient products, programs, and best practices.
 - help consumers make water-efficient choices, including differentiating between products and services in the marketplace.

Its about efficient use of water vs. strictly conservation



WaterSense standards are set up with specific performance criteria to help insure a satisfactory user experience.

Require independent third party certification of products

WaterSense Standards

- Toilets
- Urinals
- Lavatory faucets and aerators
- Showerheads
- New Homes

Future WaterSense Standards

- Pre-rinse spray valves
- Irrigation controllers
- Water Softeners

Retrofit Opportunities

- Toilets
- Urinals
- Lavatory Faucets
- Showerheads
- Promotional Materials

Toilets

- Effective flush volume shall not exceed 1.28 gallons per flush
 - Currently 1.6 gpf
 - 20% Reduction
 - Must meet specific solid waste removal criteria
- Single flush, tank-type gravity toilets
- Dual flush, tank-type gravity toilets
- Dual flush, tank-type flushometer tank (pressure
- Tank-type, flushometer tank (pressure-assist) toilets
- Tank-type electro hydraulic toilets
- Commercial flushometer type toilets not included



Urinals

- Maximum average water consumption not to exceed 0.5 gallon per flush
 - Currently 1.0gpf
 - 50% Reduction
 - Must meet specific flush performance criteria
 - Adjustments within 0.1gpf
 - Non interchangeable parts w/higher flow product
- Urinal fixtures
- Pressurized flushing devices
- Flush tanks - gravity type



Lavatory Faucets

- Maximum flow rate of 1.5 gpm at 60 psi
 - Current standard is 2.2gpm at 60 psi
 - 32% savings
- Minimum flow of 0.8gpm at 20 psi



Showerheads

- Flow
 - Maximum 2.0 gpm
 - Current requirement is 2.5 gpm
 - 20% minimum reduction
- Force
- Coverage



Caution: Shower Shock risk with low flow showerheads

- Shower shock occurs when surges of hot or cold water come out of the showerhead.
- Shower shock is caused by pressure changes in the water supply line

Make sure the shower valves are temperature or pressure compensating type and are qualified to function at the lower showerhead flow rate.

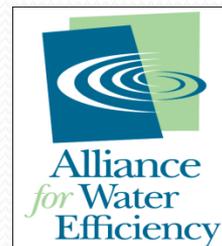




Plumbing
Efficiency
Research
Coalition

aka...(PERC)

- Coalition among five premier plumbing and water efficiency related associations
- Advancement of water efficient and sustainable plumbing products, systems and practices

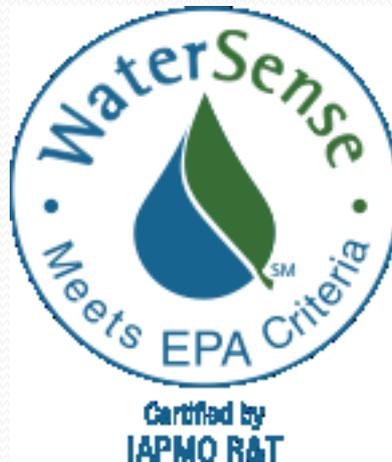


PERC Targeted Areas

- Drain line carry research for high efficiency commercial toilets
- Non water using urinals
- Water Efficient plumbing system sizing
- Safe applications for re-use water

Look for the Label

Help reduce water and energy costs of your facilities using WaterSense certified products.



Use the website to find qualified WaterSense products

<http://www.epa.gov/WaterSense>

Moen is the 2010 U.S. EPA WaterSense®
**Manufacturer Partner
of the Year.**





Questions ?