



HUD Water Wednesdays Introducing WaterSense & Quantity Quotes

April 29, 2015 Veronica Blette, EPA Stephanie Stern, StopWaste



Housekeeping



- All attendees are muted to minimize background noise.
- Please type questions into the chat box on the upper right-hand side of your screen. We will have a dedicated time for Q&A.
- A recording of this presentation will be posted on the WaterSense website at epa.gov/watersense/hudwebinars



Poll Question



- Where are you from?
 - I work for HUD
 - I manage public housing
 - I work for local government
 - I work for the private sector (consultants, manufacturers)
 - Other



Today's Presenters



Veronica Blette, Chief, WaterSense Branch





 Stephanie Stern, Program Manager, StopWaste







QuantityQuotes

Connecting buyers with suppliers of green and energy-efficient products

4/29/2015

4



The Bigger Picture - A few words from HUD









The Bigger Picture



- Federal Requirements
- Energy/Water Nexus
- Costs
- Water Use
- Weather and Climate
- The Opportunity





Federal Water Efficiency Requirements



Executive Order 13693 builds on previous E.O. 13423, 13514 and the Energy Independence and Security Act of 2007 (EISA)

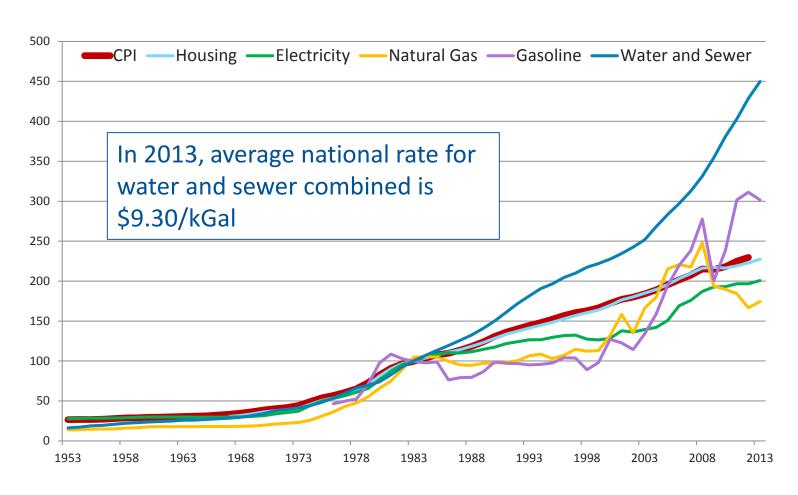
- Sets water and energy efficiency requirements for all federal agency facilities.
- Meter and use data to improve water management
- Reduce potable water use intensity by 2% each year
- Purchasing ENERGY STAR, WaterSense, and DOE/FEMP designated products
- Reduce non-potable industrial, landscaping and agricultural water use by 2% per year
- Implement green infrastructure projects





Water Costs will Continue to Increase







Poll Question



- How do my tenants pay for water?
 - They are billed separately they know how much water they use
 - It is included in their rent they don't know how much water they use
 - Not applicable but I pay for water separately
 - Not applicable I don't see a water bill



It's Not Just About Water



- Moving and treating water uses energy
 - Every gallon of water has an energy "footprint"
 - Nationally almost 1% of all electricity use is for the purpose of treating or delivering water and wastewater treatment uses another 0.8%
- On a local level, energy use and cost
 - @ municipal level can be > 40%
 - @ utility level energy is one of the highest utility costs
- Still, the largest portion of energy consumed by using water happens in the hands of the user
 - In California, 19% of electricity and 30% of nonpower generation natural gas is consumed by pumping, treating, heating, or otherwise using water



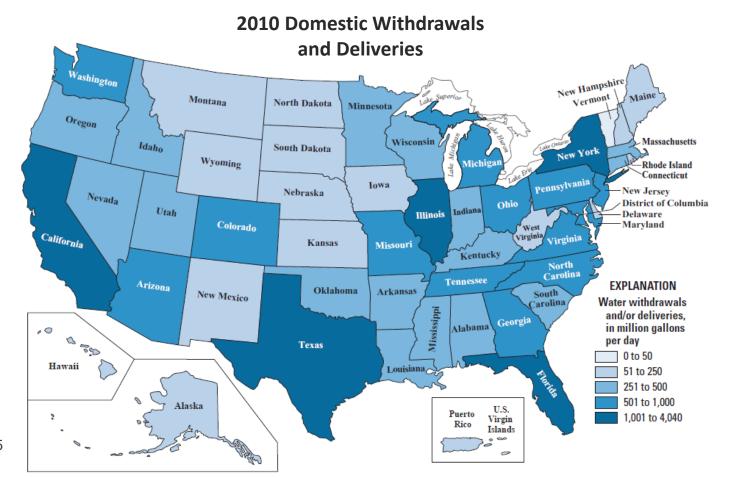


Water Use is Declining but **Population will Grow**



89 gpcd for domestic water use from public supplies in 2010 USGS report vs. 100 gpcd in 2005 report



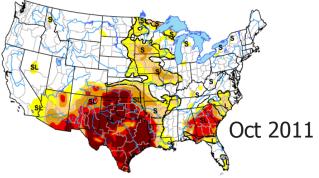


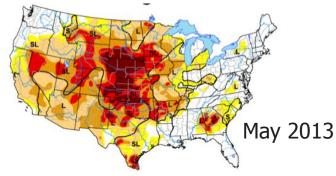


Ensuring a Reliable Supply of Water is a Challenge

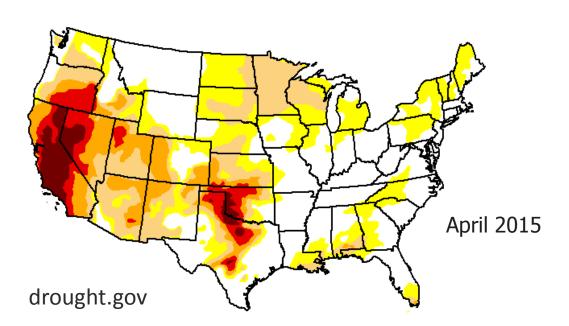








- Drought happens somewhere every year
- Climate change increases uncertainty and concerns about water scarcity and risk
- Competition for supplies to meet public, agricultural and energy needs will increase

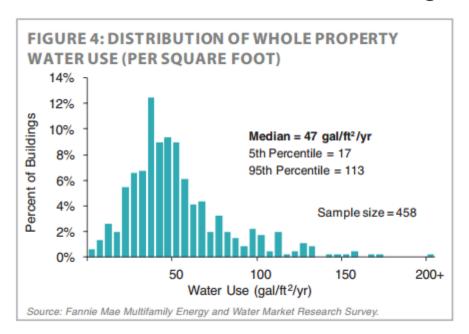


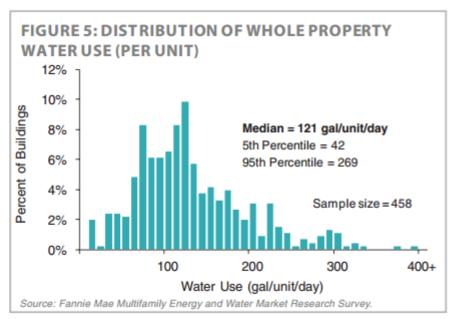


Water use in Multifamily Housing



- Fannie Mae 2012 survey of multifamily properties shows wide distribution in water use
- Noted opportunities for savings
- EPA WaterSense evaluating data for purposes of benchmarking





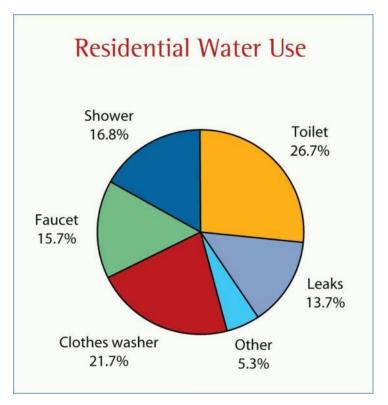


How do we use water at home?



- Approx. 70% of water used indoors, 30% outdoors
 - Outdoor use is higher in arid regions
 - During summer, outdoor water use can increase 2-4x over winter use
- Toilets, faucets, showers, clothes washers, and leaks are biggest indoor users

Indoor Use



1999 Residential End Use Study



EPA and WaterSense - the why and what



Water shortages expected in 36 states

Communities face major infrastructure investments

Consumers challenged by rising utility bills

Much of water used outdoors is wasted

No ENERGY STAR-like program for water

look for

Nater Sense

Nater Sense

Reers EPA Criterio

Identify high-performing technology

Promote water efficient behavior/action

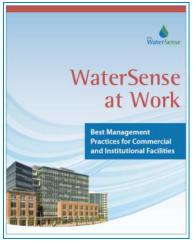
Help consumers save money

Reduce need to expand infrastructure capacity

Save water for critical needs

WaterSense focus – 3 Ps





Fixtures and

Actions that can be taken to reduce water use -- at home, outdoors and at work

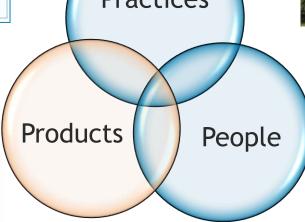


Practices













What's Special About WaterSense?





A label with integrity

- Third-parties independently certify that products and homes meet EPA criteria
- Backed by the credibility of EPA

Smart use of resources

- EPA provides national standardization and outreach for water-efficiency
- Manufacturers absorb product research, testing, and branding costs
- Licensed certifying bodies certify the products and police the label's use
- EPA, manufacturers, retailers, and other partners help market/incentivize purchase of labeled products



Certification Process Provides Confidence



- Manufacturer applies to a licensed certifying body
- Licensed certifying body conducts product evaluation
 - Assesses production process and quality management system
 - Samples and tests product's conformance to WaterSense specification
 - Certifies the product and provides list to WaterSense
- Licensed certifying body authorizes manufacturer to use the WaterSense label
- Licensed certifying body conducts ongoing conformity assessment
 - Annual product retesting
 - Annual assessment of production process and quality management system
 - Annual surveillance of label use in the marketplace



WaterSense Product Evaluation Factors





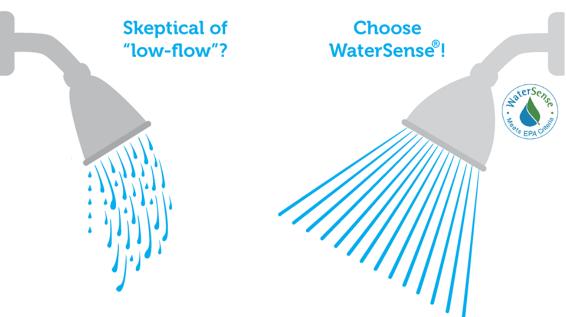
In determining what to label, products must be able to:

- Offer equivalent or superior performance
- Be about 20 percent more water-efficient than conventional models
- Realize water savings on a national level
- Provide measurable results
- Achieve water efficiency through several technology options
- Be effectively differentiated by the WaterSense label
- Be independently certified



"Low Flow" is a No Go





WaterSense labeled products must meet EPA criteria for both water-efficiency and performance

Don't sacrifice performance for water efficiency.

WaterSense labeled products are certified to PERFORM as well or BETTER than standard models

...all while SAVING at least 20% more water!



WaterSense Labeled Products





Tank-Type Toilets



Lavatory Faucets



Showerheads



New Homes



Flushing Urinals



Pre-rinse Sprayers



Irrigation Controllers



Water factors are also included in many ENERGY STAR qualified products



Comparing WaterSense to Standard Models



Product	Standard Models	WaterSense Models	2015 CA CEC
Tank-type Toilets	1.6 gallons per flush (gpf) max	Single - 1.28 gpf max Dual - 1.28 gpf effective (avg 1 full, 2 reduced flushes) Must remove > 350 grams of waste	Single 1.28 gpf Dual – 1.28 gpf Must remove >350 grams of waste
Lavatory Faucets	2.2 gallons per minute (gpm) max	1.5 gpm max Minimum flow 0.8 gpm at 20 psi	1.2 gpm max
Showerheads	2.5 gpm max	2.0 gpm max Must meet minimum flow rate, spray force, and spray coverage requirements	2.5 gpm max
Flushing Urinals	1.0 gpf max	0.5 gpf max	0.125 gpf max



Comparing WaterSense to Standard Models



Product	Standard Models	WaterSense Models	2015 CA CEC
Pre-Rinse sprayers	1.6 gpm max	1.28 gpm max Must meet minimum spray force and endurance requirements	none
Weather-based irrigation controllers	No standards	Use weather data and landscape info to control irrigation Performance – provide sufficient water to keep plants healthy without runoff. Have capability to respond to utility restrictions	none
Commercial flushometer toilets (Draft)	1.6 gpf max	1.28 gpf max (single or dual flush) Must flush >350 grams + seat cover	



WaterSense Product Savings



Certified products help save water, energy, and money on utility bills

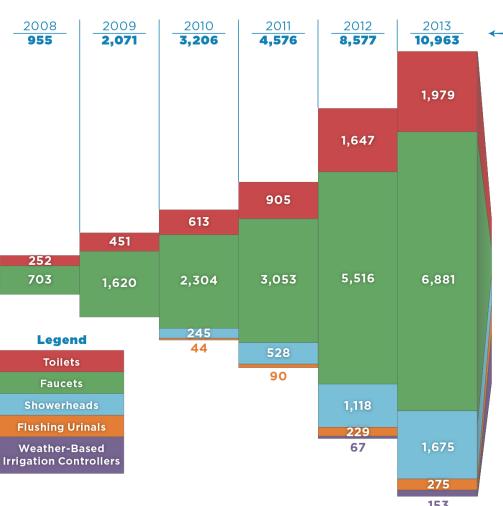


- Retrofitting older, inefficient toilets, showerheads, and faucets with WaterSense models could annually save the average MF building
 - 9,000 gallons of water per unit
 - \$85 in water/sewer costs per unit
 - 270 kWh or 1200 ft³ of natural gas per unit
- Changing to WaterSense labeled showerheads and faucets/aerators alone could save more than 2,000 gallons per year for every unit and \$20/unit/year



Products Labeled through 2013





Now more than 14,000 labeled models

TOTAL

MODELS

4/29/2015 2525



Acceptance of WaterSense

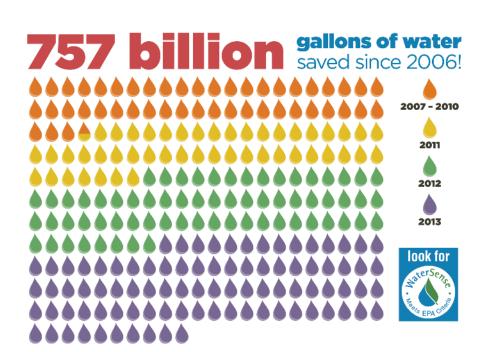


- The WaterSense label is recognized by other green programs
 - DOE Federal Energy Management Program Designated Products
 - U.S. Green Building Council's LEED Rating Systems
 - Green Globes' Green Building Initiative
 - National Association of Home Builders' National Green Building Standard
 - International Code Council's International Green Construction Code
 - IAPMO Green Technical Supplement
 - States and Municipalities (Georgia, Texas, Colorado, California, New York City, Miami-Dade County)



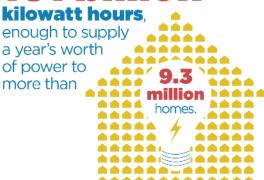
Savings Add Up! 2006-2013





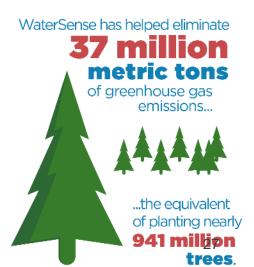
WaterSense has helped reduce the amount of energy needed to heat, pump, and treat water by

101 billion





waterSense has **Saved consumers \$14.2 billion**in water and energy bills.





www.quantityquotes.net







Today

- Introduction to QuantityQuotes
- How QQ can help HUD officers, grantees and stakeholders
- Web site walkthrough
- Q&A

Poll

 Who is already familiar with Quantity Quotes?



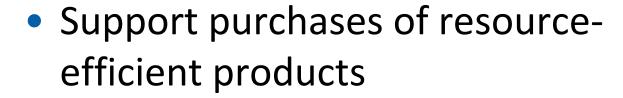
QuantityQuotes



An online tool created with funding from the U.S. Department of Energy to connect large quantity buyers with suppliers of energy-efficient products

Goals for QuantityQuotes







- Promote recycled-content building materials
- Increase demand of green products to push the market forward



Add new products as appropriate

The QuantityQuotes Concept

 Purchaser requests quotes from suppliers through the website

2. Suppliers respond through the website

Purchaser follows up with suppliers and chooses one to contract with

Benefits for Purchasers

Save time

- All products are ENERGY STAR or WaterSense qualified or meet green criteria
- Get multiple bids in one step (for free)

Save money

 Suppliers compete against one another for purchasers' business

Get the right product

The site guides you through formulating a purchase request

NEW Features

- New easier to navigate format
- Product attributes built into purchase requests
- Multiple items can be purchased with one request
- New product categories!

New Product Categories

- WaterSense products
- LEDs
- Recycled content insulation











All Available Products

Existing Products

- ENERGY STAR Qualified:
 - CFLs
 - Refrigerators
 - Room Air Conditioners
 - Light Fixtures (Residential)
 - Dishwashers
 - Clothes Washers (Commercial)
 - Dehumidifiers

New Products

- LEDs
- Recycled Content Insulation
- WaterSense Products
 - Toilets
 - Bathroom sink faucets
 - Showerheads
 - Commercial pre-rinse spray valves
 - Urinals
 - Weather-based irrigation controllers

Current Vendors

3NLED Lighting USA

Adamax Inc.

AM Conservation Group, Inc.

Arkansas Lighting

Atlanta Light Bulbs Inc.

AutoCell Electronics, Inc.

Bonded Logic

Bulbs Plus, Inc.

Creative Laundry Systems, Inc.

E2 Lighting International Inc.

EarthTronics, Inc.

Eco Lighting Group

Energy Federation, Inc.

Energetic Lighting

enLux Lighting

Fasco Appliance

FJS Distributors, Inc.

Florida Eco Products

GE Appliances

Gladiator Lighting

Globe Electric

Goodlite Products Inc.

Grand Appliance & TV

Green Creative

Green Depot

GreenEcoSavers

Greenfiber

Green Insulation Technologies, LLC

Greenwatts LED

Havlock Wool

Honig's Appliance

Jomar Electric

MaxLite

Mighty Bright

Neoperl

New Resources Group

Optolight

SFA Saniflo Inc

Sears Commerical Sales

Southwest Environmental

Superior Lighting

Switch Bulb Company, Inc.

TechniArt Inc.

The Energy Conscious

The Home Depot

Watermiser

Whirlpool Corporation



Meet Your Goals with QuantityQuotes

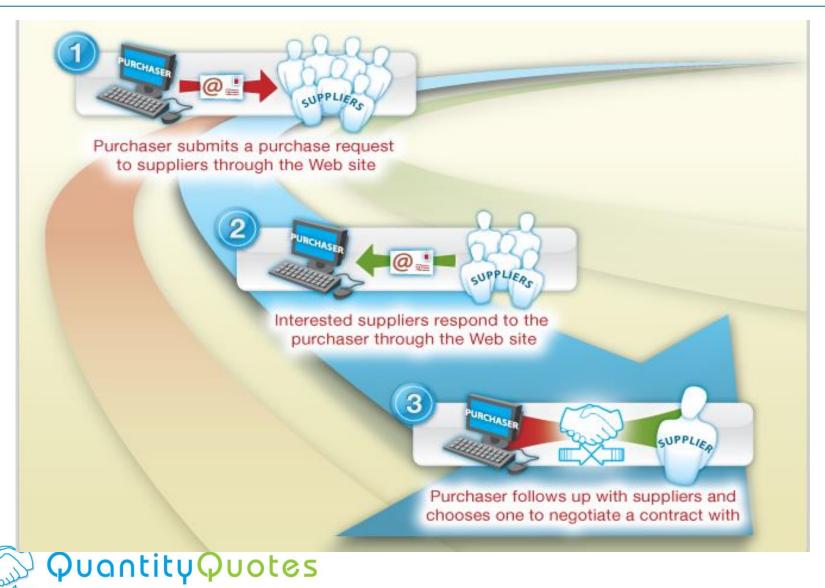
- Product specifications to meet needs of existing project features and retrofits
- Products available on QuantityQuotes.net are ordered in bulk, enabling more competitive prices
- Enables group purchasing to increase volume, and lower prices
- Meet your organizations their bid and procurement requirements

HUD Procurement

- Notice PIH-2007-30 (HA)
 - PROCUREMENT PURCHASING HUD recognizes the benefits of streamlining the purchase of ENERGYSTAR products and PHAs are encouraged to use Quantity Quotes for procurement purchases above\$2,000 and below \$100,000.
 - If at least three quotes are received using Quantity Quotes, then it satisfies both the 24 CFR 85.36(d)(1) small purchase procedures and guidance provided in the Procurement Handbook 7460.8 REV 2, paragraph 5.2.
 - The stated purposes of the PIH Notices was to encourage ENERGY STAR as the standard for Public Housing, promote the purchase of Energy Star products, and "streamlines the purchase of Energy Star products using Quantity Quotes."

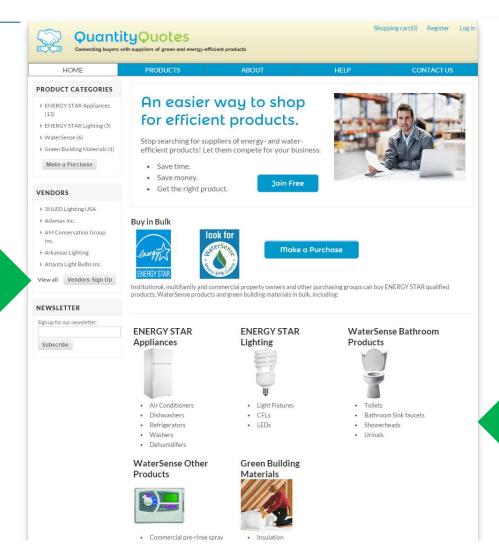


Basic Work Flow



QQ Main Page

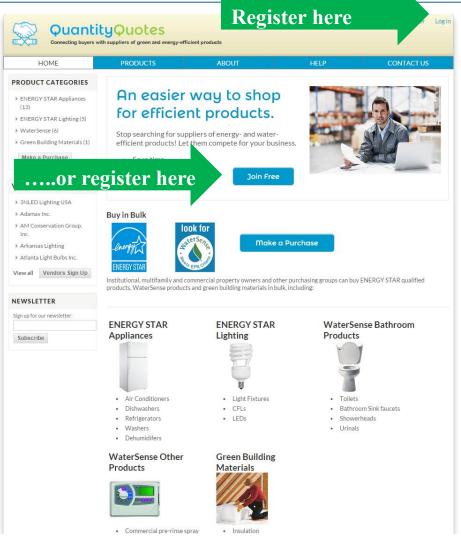
List of Vendors



List of Products

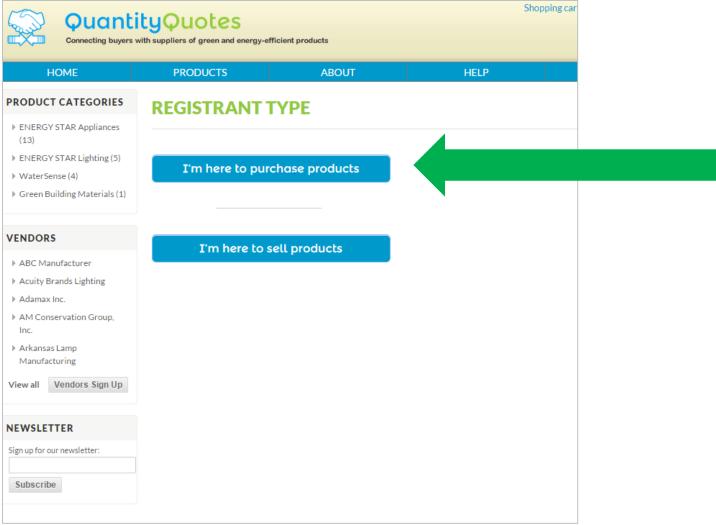


Register



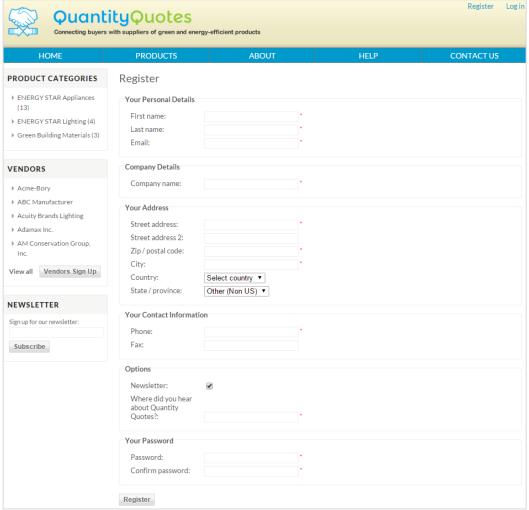


Register

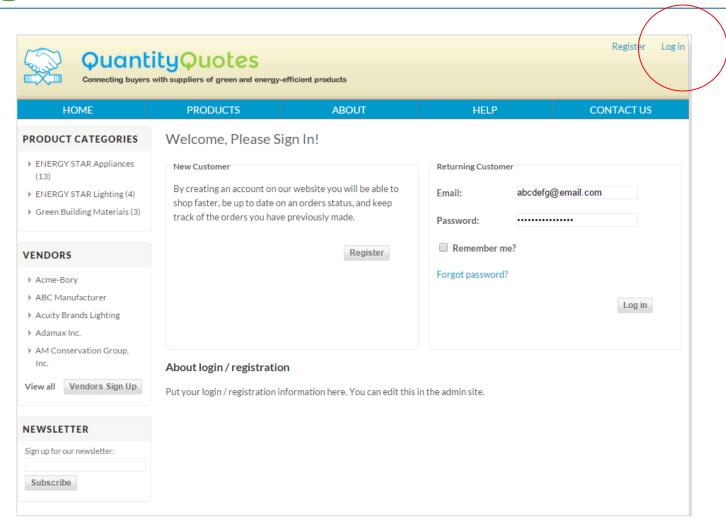




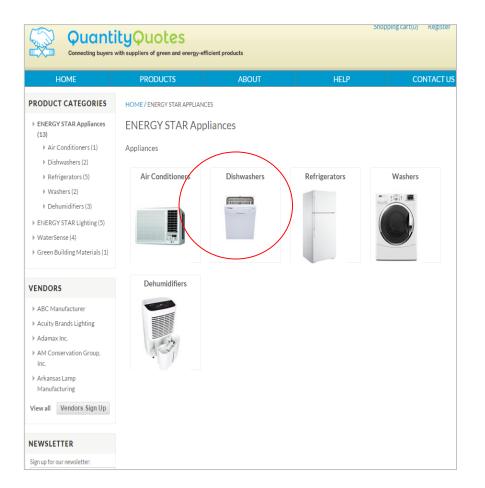
Enter Registration Information

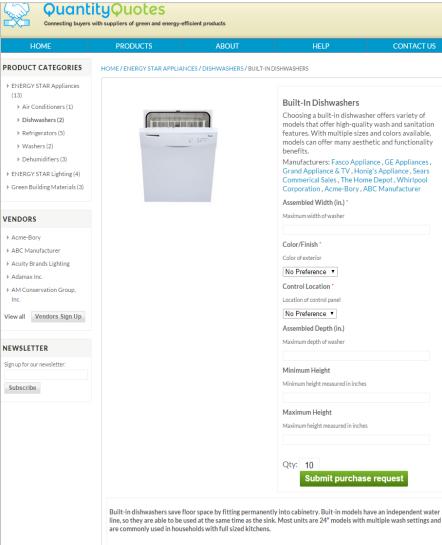


Log in



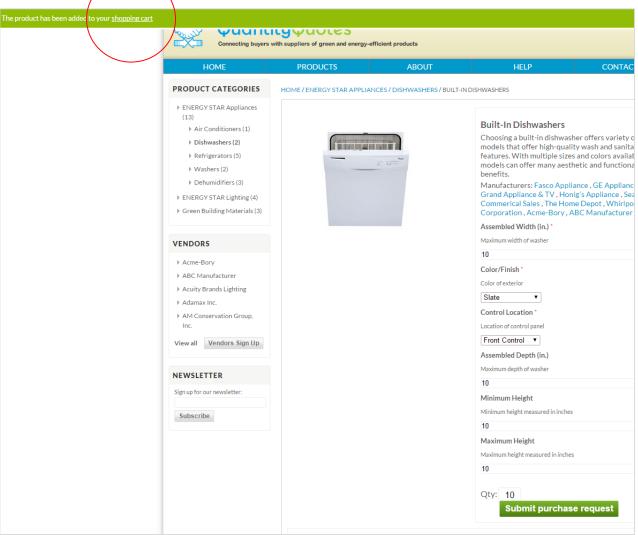
Choose your Product and Attributes



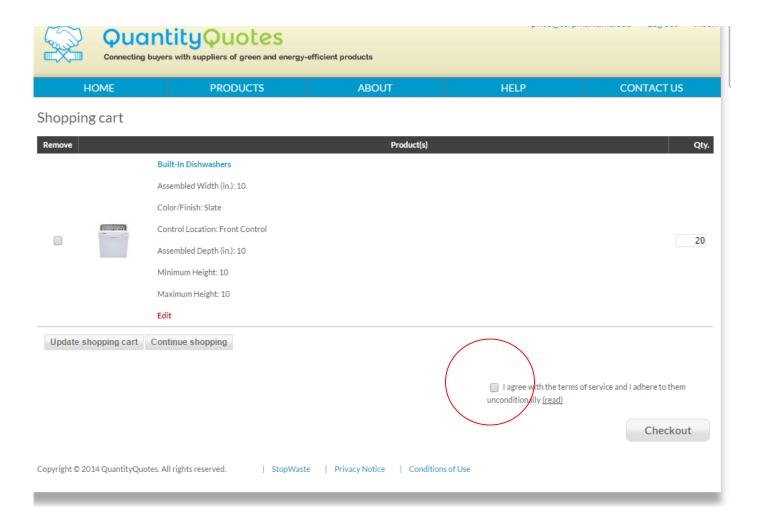




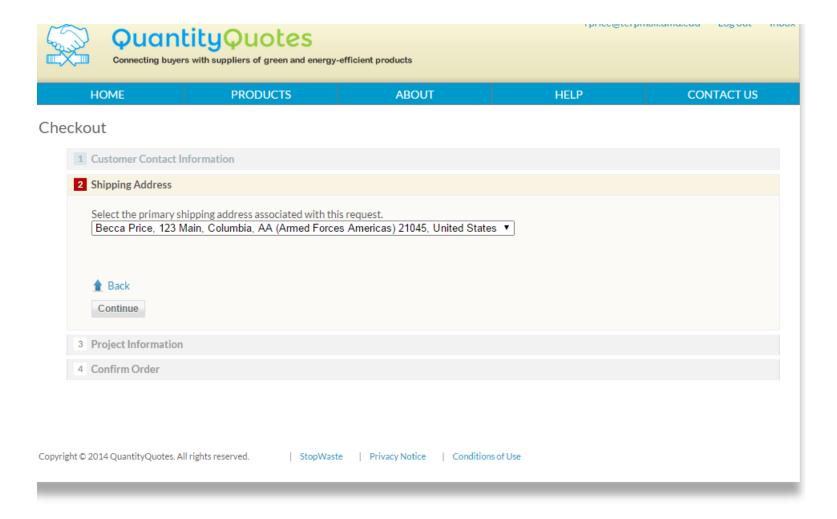
View your Shopping Cart



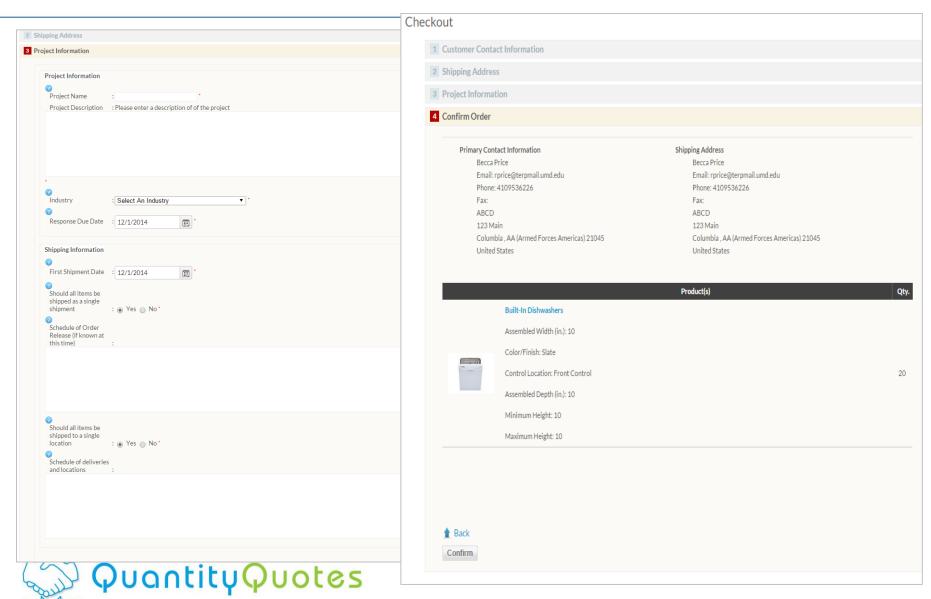
View your Shopping Cart



Chose your Shipping Address



Enter Project Information and Confirm Order



View Confirmation



Thank you

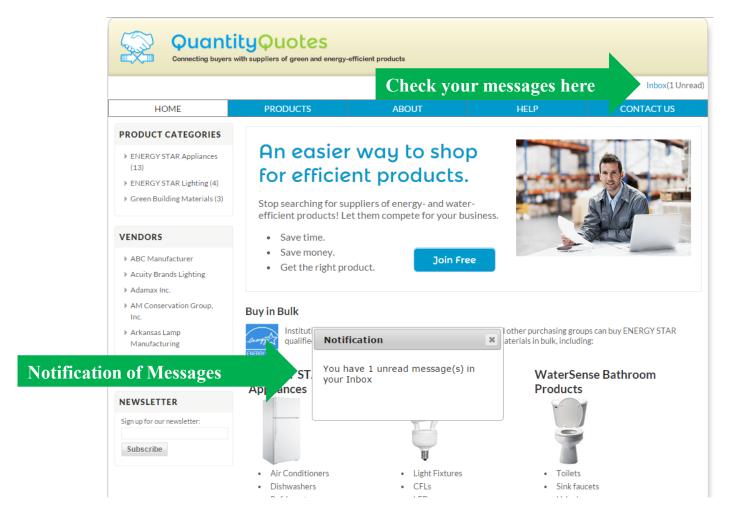
Your order has been successfully processed!

Request number: 10

Click here for request details.

Continue

Responding to a Vendor



Responding to Vendor



HOME PRODUCTS ABOUT HELP CONTACT US

becca.price9@gmail.com

Log out

Inbox(1 Unread)

Private Messages





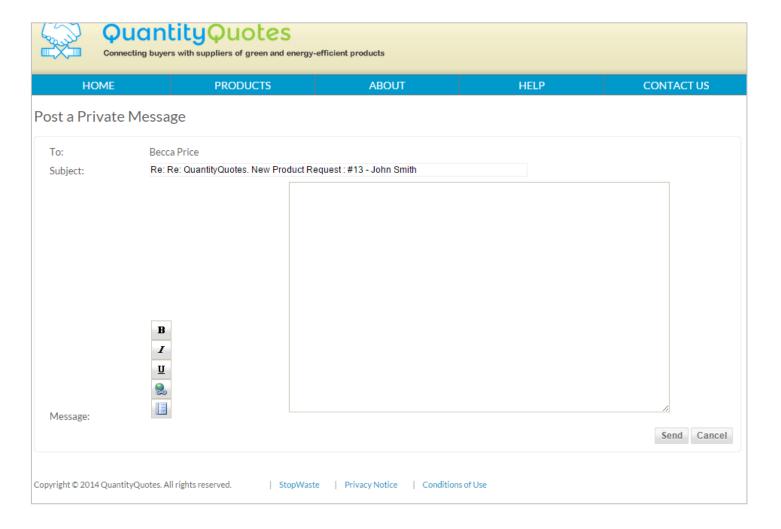
Viewing a Vendor Response



View Message



Send a Reply



QuantityQuotes Opportunities

Register today!

Try it out for upcoming purchases

Provide feedback

Feedback

- What additional features would make QuantityQuotes a more useful tool for meeting your goals?
- What additional products would you like to see on QuantityQuotes?
- Are there vendors currently not signed up to the site that we should reach out to?
- When do you usually make plans for future bulk purchases?

Questions? Contact us

- StopWaste:
 - Stephanie Stern
 - 510-891-6584
 - sstern@stopwaste.org

- Energetics:
 - Walt Zalis
 - **410-953-6256**
 - wzalis@energetics.com



QUESTIONS?



Future HUD Water Wednesday Webinars





	http://epa.gov/watersense/hudwebinars
May 27	Communicating the Need for Water Efficiency Learn about WaterSense material to help you talk to residents about the importance of water-efficient behaviors. Hear about education and outreach efforts at properties in San Francisco.
June 17	WaterSense and LEED Housing Programs Hear about how WaterSense and LEED programs can help build more water-efficient housing. Learn about tools and resources the programs have to improve water efficiency.
July 29	Water Efficiency Best Management Practices for Multi-unit Property Managers Learn about WaterSense BMPS for facilities and case studies of how facility managers have assessed their water use and made changes to improve efficiency



Future HUD Water Wednesday Webinars





	http://epa.gov/watersense/hudwebinars
August 26*	Tracking Water and Energy Savings Hear about how property managers can use the ENERGY STAR Portfolio Manager to track their water as well as energy.
September 16* (date change)	Incorporating Green Infrastructure into Housing Developments Learn about EPA resources to help integrate green infrastructure and hear about experiences from HUD grantees
October 28*	Greywater Reuse – Is it Right for Your Facilities? Learn more about greywater reuse and experiences of HUD grantees who have worked with cities to implement projects.

^{*} Dates subject to change.



Help HUD Help You!





- In concert with this training, HUD is requesting feedback on water issues via the public forum "Water Watch" on Switchboard.
- http://switchboard.uservoice.com/for ums/293865-water-watch
- Please let them know (a) what challenges your community or organization is facing with water access and water quality; and (b) what more do you think HUD can do to help?



Poll Question



- Was this webinar helpful and will you attend future webinars?
 - Yes, it was helpful and I will attend future webinars.
 - No, I knew all of this already. But I will attend future webinars.
 - Yes, it was helpful. I don't know if I will attend future webinars.
 - No, it wasn't helpful and I won't attend future webinars.



For More Info...



Visit us online!

- www.epa.gov/watersense
 - Lists of products
 - Educational fact sheets and resources
- www.facebook.com/epawatersense
- www.twitter.com/epawatersense
- HUD webinars
 - www.epa.gov/watersense/hudwebinars



Questions?

E-mail: <u>watersense@epa.gov</u>

Helpline: (866) WTR-SENS (987-7367)