

look for



# HUD Water Wednesdays

## *Tracking Water and Energy Savings*

August 26, 2015

Jonah Schein, EPA

Andrea Schnitzer, EPA

John Mimms, Community

Corporation of Santa Monica

# Housekeeping

- All attendees are muted to minimize background noise.
- Please type questions into the questions/chat box in your GoToWebinar panel. We will have a dedicated time for Q&A.
- A recording of this presentation will be posted on the WaterSense website at <http://epa.gov/watersense/hudwebinars>.

# Today's Presenters

look for



- **Jonah Schein**, Technical Coordinator for Homes & Buildings, EPA WaterSense Program



- **John Mimms**, Project Manager, Water Management, Inc.



**Community  
Corporation of  
Santa Monica**

- **Andrea Schnitzer**, National Program Manager, EPA ENERGY STAR Program



# The Bigger Picture

look for



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

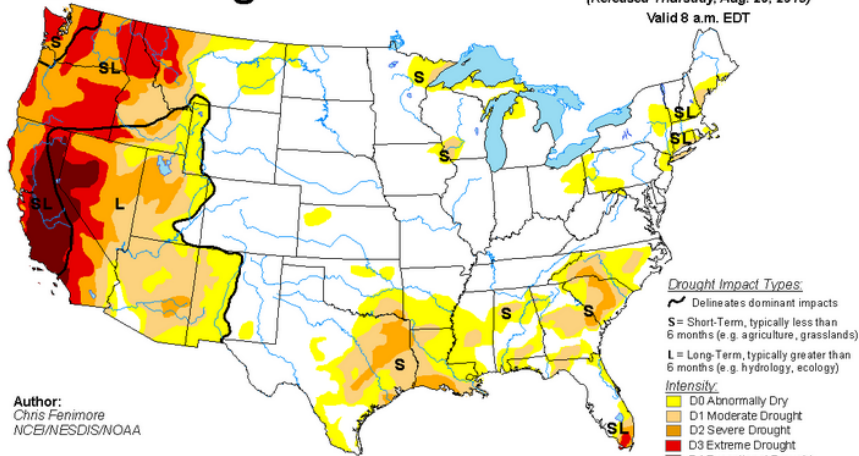


# Current Newsworthy Driver

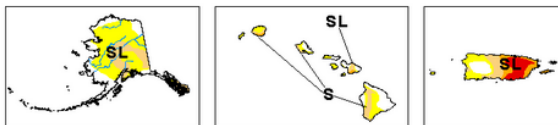


## U.S. Drought Monitor

August 18, 2015  
(Released Thursday, Aug. 20, 2015)  
Valid 8 a.m. EDT



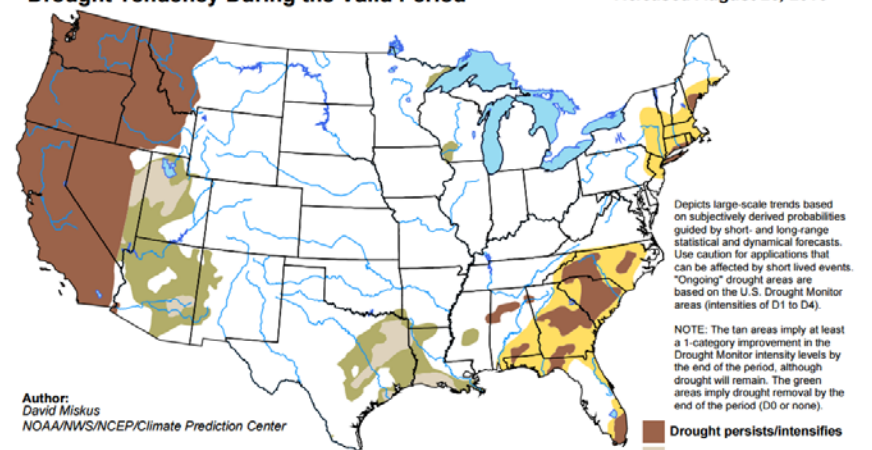
Author:  
Chris Fenimore  
NCEI/NESDIS/NOAA



USDA  
 National Drought Mitigation Center  
<http://droughtmonitor.unl.edu/>

## U.S. Seasonal Drought Outlook

Valid for August 20 - November 30, 2015  
Released August 20, 2015



Author:  
David Miskus  
NOAA/NWS/NCEP/Climate Prediction Center



Drought persists/intensifies  
 Drought remains but improves  
 Drought removal likely  
 Drought development likely



<http://go.usa.gov/hHTE>

Current Picture

August – November outlook



# 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**



2006



Identify high-performing  
technology

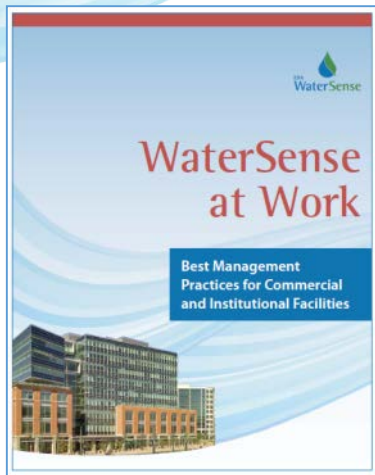
Promote water efficient  
behavior/action

Help consumers  
save money

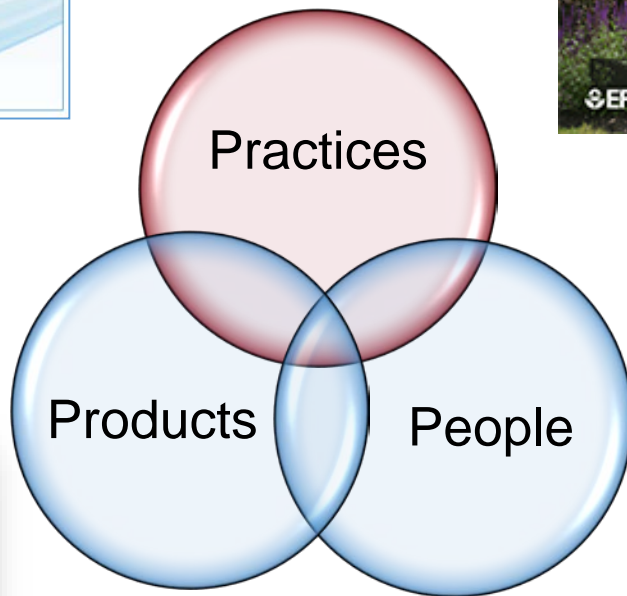
Reduce need to  
expand infrastructure  
capacity

Save water for  
critical needs

# WaterSense Approaches



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



**Specific fixtures and technologies save water**



**Partners reach users to change behavior**



# What we have covered to date



- Webinar 1 - How to identify water-efficient WaterSense labeled products and purchase them through the Quantity Quotes bulk purchasing platform



**QuantityQuotes**

Connecting buyers with suppliers of green and energy-efficient products

- Webinar 2 - How to communicate with residents about water efficiency





# What we have covered to date



- Webinar 3 – How to build more water efficient housing using WaterSense and LEED criteria



- Webinar 4 – Covered a variety of best management practices (BMPs) for multi-family housing



# Today's Focus? Tracking Water Use



- Why should we track water use in multi-family buildings?
  - Why's it important?
  - What are the benefits?
- Using ENERGY STAR's Portfolio Manager tool



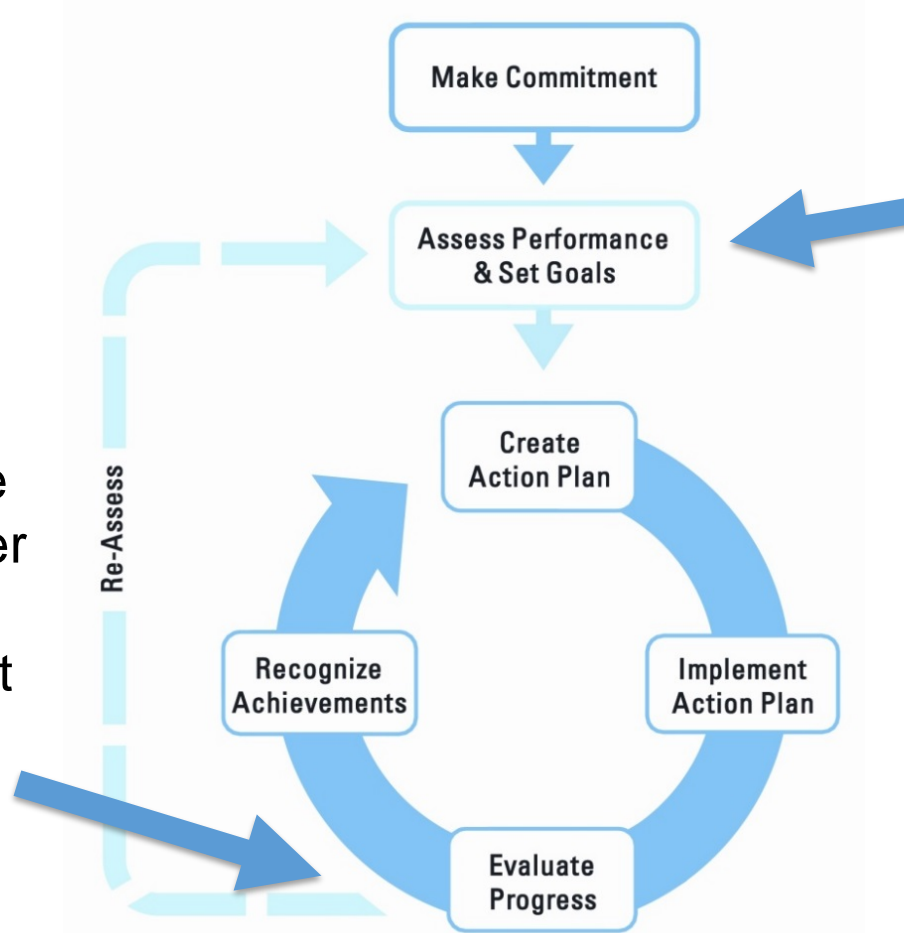
# Why Track Water Use?



- 1) Provides a baseline for your management strategies

# Why Track Water Use?

Tracking is where a management plan begins.



And how we know whether or not it worked/what needs to be done next.

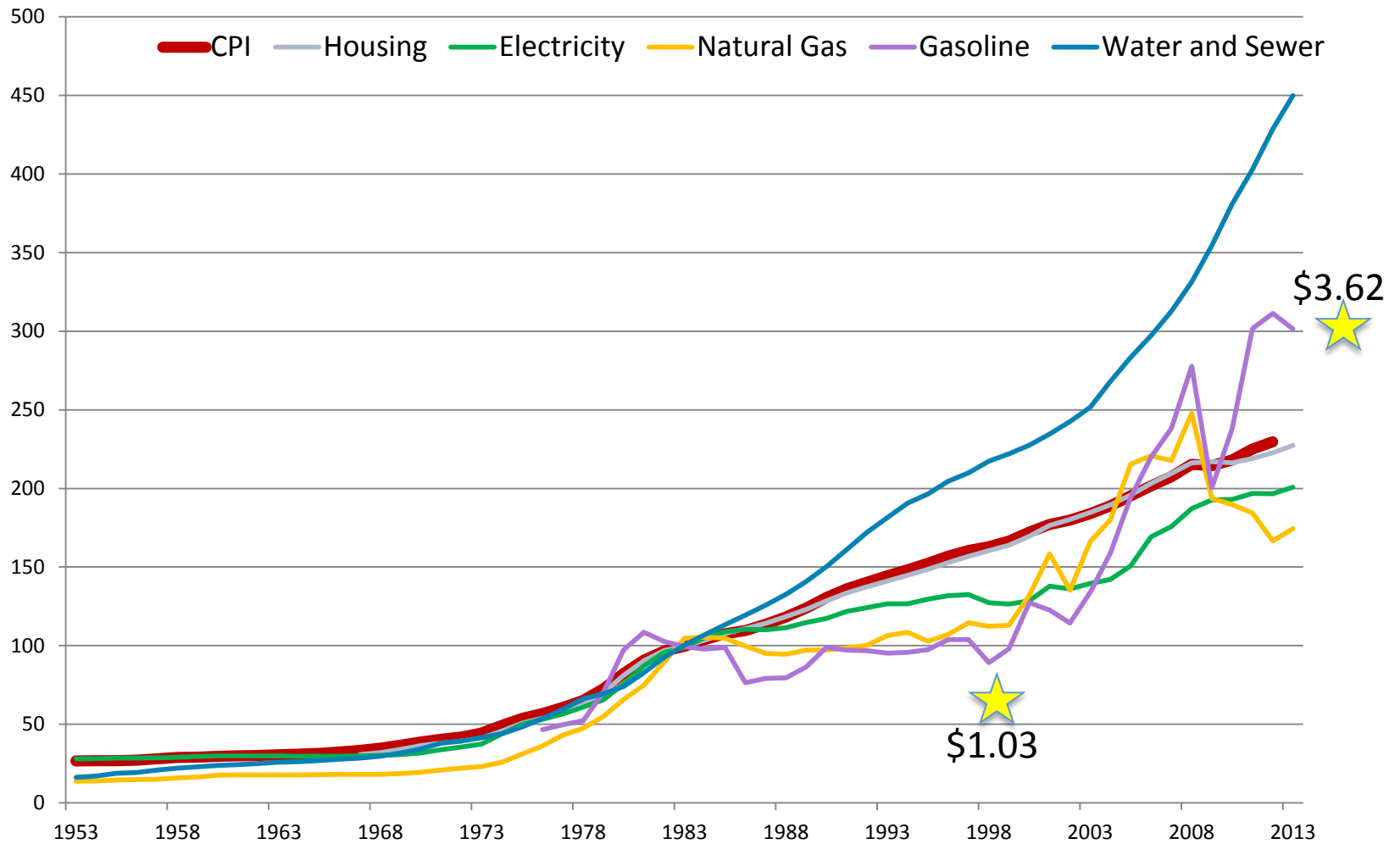


# Why Track Water Use?



- 1) Provides a baseline for your management strategies
- 2) Helps to monitor and control costs

# What Will Water Cost in 20 Years?



# Why Track Water Use?

- 1) Provides a baseline for your management strategies
- 2) Helps to monitor and control costs
- 3) May identify areas that need to be targeted for improvement
- 4) Can indicate anomalies or leaks at a facility



# Using Your Data

City Water and Wastewater Bill	
Bill Date: October 1, 2012 Due Date: November 1, 2012 Account Number: 987654-32	Customer Name: Facility XYZ Service Address: 123 Anywhere Lane
<b>Billing Detail:</b>  <b>Water Charges: (a)</b> Tier 1 - (0-100) \$2.70/ccf 100 \$270.00 Tier 2 - (101-250) \$3.10/ccf 150 \$465.00 Tier 3 - (251-500) \$3.73/ccf 250 \$932.50 Tier 4 - (500+) \$4.13/ccf 50 \$206.50 <b>Total Water Charges</b> 550 \$1,874.00  <b>Wastewater (Sewer) Charges: (b)</b> Sewer Consumption \$6.23/ccf 550 \$3,426.50 <b>Total Wastewater Charges</b> 550 \$3,426.50  <b>Other Charges: (c)</b> Fire Service \$27.33 Stormwater Charge \$104.89/acre 2.1 \$220.27 Base/Service Charge \$204.33 <b>Total Other Charges</b> \$451.93  <b>Total Charges</b> \$5,752.43	<b>Summary of Charges:</b>  Previous Balance \$6,221.38 Payment - Thank you \$6,221.38 Water, Wastewater, Other Charges \$5,752.43 Adjustments/Deposits \$0.00 <b>Total Charges</b> \$5,752.43  <b>Meter ID: 12345</b> Current Meter Reading 33,127 Prior Meter Reading 32,681 Water Usage This Period (ccf) (d) 446 Water Usage This Period Last Year 682  <b>Meter ID: 67890</b> Current Meter Reading 982 Prior Meter Reading 878 Water Usage This Period (ccf) 104 Water Usage This Period Last Year 159  <b>Consumption (e)</b> 

Water Rates

Wastewater Rates

Water Use

Water Use Trend



# Using Your Data



## Billing Detail:

### Water Charges: (a)

Tier 1 – (0-100)	\$2.70/ccf	100	\$270.00
Tier 2 – (101-250)	\$3.10/ccf	150	\$465.00
Tier 3 – (251-500)	\$3.73/ccf	250	\$932.50
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<b>Total Water Charges</b>		<b>550</b>	<b>\$1,874.00</b>

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<b>Sewer Consumption</b>	<b>\$6.23/ccf</b>	<b>550</b>
		<b>\$3,426.50</b>
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# Using Your Data

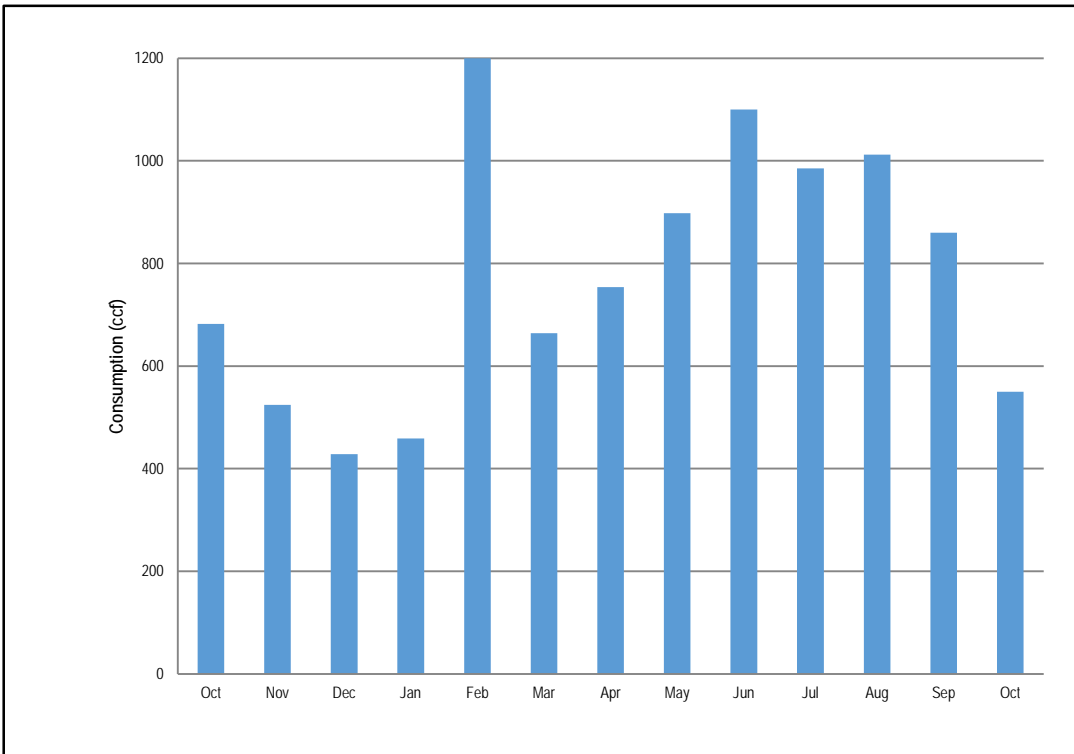
look for



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<b>Water Usage This Period Last Year</b>	<b>682</b>

# Using Your Data



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# John Mimms, Community Corporation of Santa Monica



# Tracking energy and water with **ENERGY STAR**

**August 26, 2015**

ENERGY STAR for Commercial Buildings



## The ENERGY STAR Program



- An EPA voluntary program
- >85% consumer brand recognition
- Promotes and recognizes superior energy efficiency in products, homes, and buildings
- Information specific to multifamily properties available at [www.energystar.gov/multifamily](http://www.energystar.gov/multifamily)



# Benchmarking energy for multifamily properties





# ENERGY STAR® PortfolioManager®

- Management Tool – Helps business and organizations by offering a platform to:
  - Assess whole building energy and water consumption
  - Track changes in energy, water, greenhouse gas emissions, and cost over time
  - Track green power purchase
  - Share/report data with others
  - Create custom reports
  - Apply for ENERGY STAR certification
- Metrics Calculator – Provides key performance metrics to integrate into a strategic management plan
  - Energy consumption (source, site, weather normalized)
  - Water consumption (municipally supplied potable and reclaimed, alternative)
  - Greenhouse gas emissions (indirect, direct, total, avoided)
  - ENERGY STAR 1-to-100 score (available for many building types)

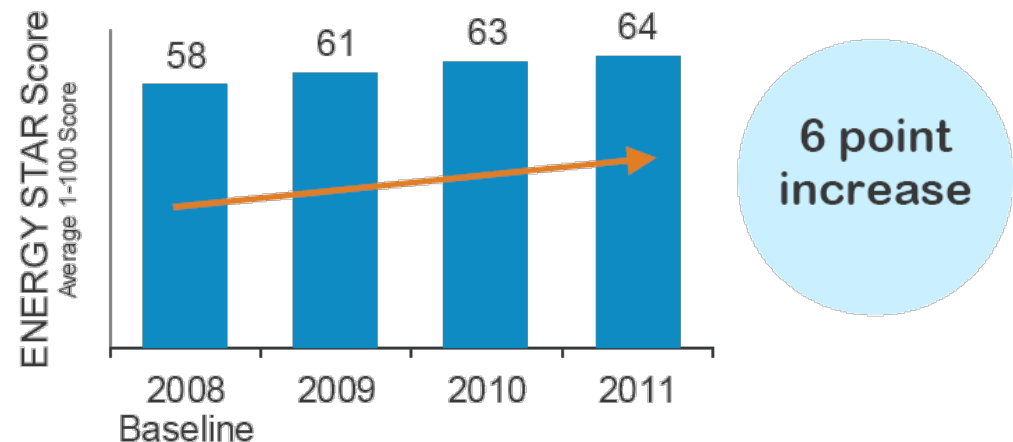
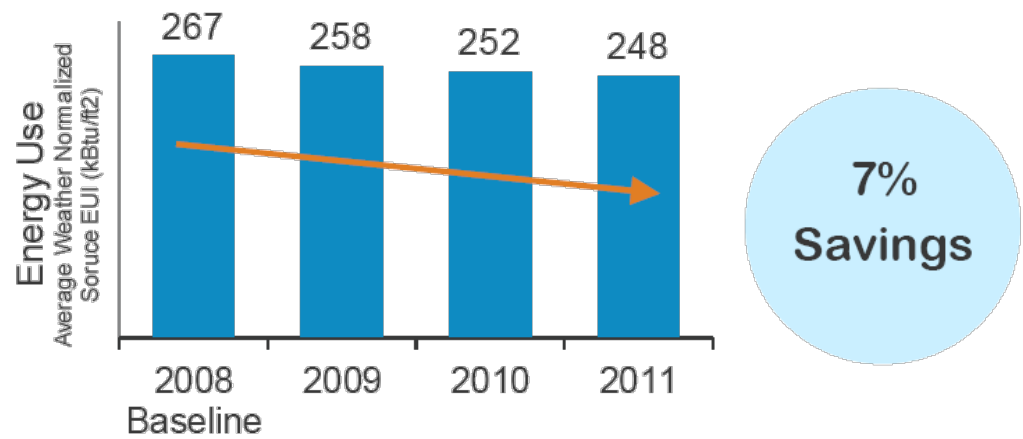
→ Accessible in a free, online secure platform: [www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)



# Value of benchmarking

Consistent benchmarking in buildings results in energy savings and improved performance

## Energy Savings in Portfolio Manager



Source: [http://www.energystar.gov/ia/business/downloads/datatrends/DataTrends\\_Savings\\_20121002.pdf?8d81-8322](http://www.energystar.gov/ia/business/downloads/datatrends/DataTrends_Savings_20121002.pdf?8d81-8322)

# Properties benchmarking in Portfolio Manager



- All property types
  - 400,000+ buildings benchmarking energy
  - 25% of all benchmarking water
- Multifamily properties
  - 28,000 properties and 3.5 billion square feet benchmarked
  - 13,000 properties have received ENERGY STAR 1-100 score

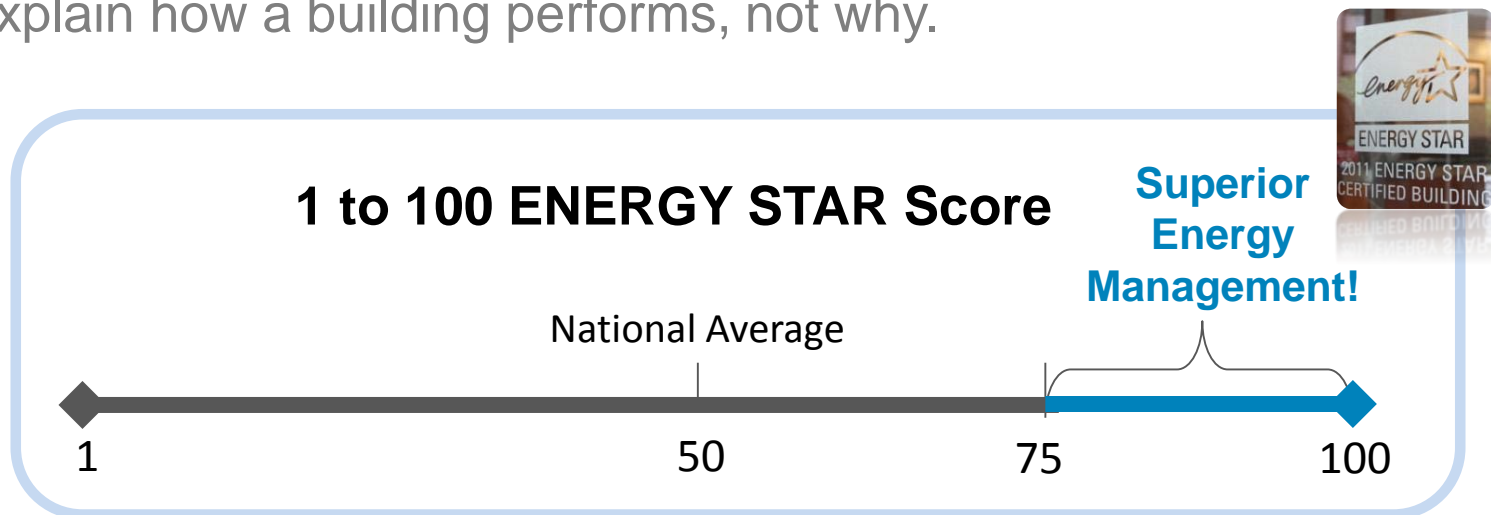
# Collaboration on energy efficiency





# 1-100 ENERGY STAR Score

- Help businesses protect the environment through superior energy efficiency
- Motivate organizations to develop a strategic approach to energy management
- Convey information about energy performance in a simple metric that can be understood by all levels of the organization
- Explain how a building performs, not why.





# What do you need to get a score?

- Property Use Details
  - Gross Floor Area
  - Total Number of Residential Living Units
    - Number of units in a low-rise setting
    - Number of units in a mid-rise setting
    - Number of units in a high-rise setting
  - Total Number of Bedrooms
- Complete Energy Data
  - 12 full calendar months
  - All fuels
  - All tenant & common areas
- Zip Code
  - For EPA to retrieve climate/weather details

*Required for 1-100  
ENERGY STAR score  
and certification:*

- *20+ units*
- *12 months of whole-property data*



## Come on, hardly anyone has whole-property energy data!

- Benchmark the energy you *can* measure
  - Common area
  - Meters you control
- Estimate your whole-property energy use
  - Existing USGBC guidance
  - Forthcoming HUD guidance
- Ask your utility to provide aggregate whole-property data



## Utilities providing aggregate data

- Austin Energy (TX)
- Consolidated Edison (NYC)
- Eversource (MA; formerly NSTAR)
- National Grid (MA)
- National Grid (NYC)
- Peoples Gas (IL)
- PSEG Long Island (NY)
- Washington Gas (DC)





# ENERGY STAR certification for multifamily properties



## ENERGY STAR Multifamily Property Lifecycle Recognition Opportunities

- Design – Designed to Earn the ENERGY STAR
  - Available through the ENERGY STAR Multifamily High Rise program
  - Must demonstrate that design is at least 15% more efficient than ASHRAE 90.1-2007; and
  - Design must score 75 or higher in ENERGY STAR Portfolio Manager
- Build – ENERGY STAR Certification of Units
  - Newly constructed or substantially rehabilitated *units* if built to meet specific design guidelines
  - 3<sup>rd</sup> party tested and verified through the construction process
- Operate – ENERGY STAR Certification of Properties
  - Available for properties with 20 or more units
  - Must score 75 or higher in ENERGY STAR Portfolio Manager based on whole property energy use for at least 12 months of operation.
  - Verification by a Professional Engineer or Registered Architect

Learn more at [www.energystar.gov/multifamily](http://www.energystar.gov/multifamily)



# How do I earn ENERGY STAR certification for my property?

1. Benchmark in Portfolio Manager
  - 12 months of whole-property energy data
  - 20+ units
2. Earn an ENERGY STAR score of 75 or higher
3. Begin the online application in Portfolio Manager
4. Have a Licensed Professional (LP) conduct a site visit
5. Complete and submit the application
6. Respond to questions from EPA, if necessary
7. Receive notification of the application's status



**AvalonBay**  
COMMUNITIES, INC.

**GREYSTAR**

 **THE TOWER**  
COMPANIES

**TIAA  
CREF**

**FORESTCITY**

 **RELATED**

**RIVERSTONE**  
RESIDENTIAL GROUP



# Tracking water use in Portfolio Manager



## Using Portfolio Manager to track water use

- More than 100,000 properties track water use in the tool
- Enter at least 12 months of water data to generate a water use intensity value
- Multiple ways to track water consumption for indoor, outdoor, combined indoor/outdoor or other
  - Municipally supplied potable
  - Municipally supplied reclaimed
  - Alternative water generated on-site
  - Other
- Create an account or login via [www.energystar.gov/portfoliomanager](http://www.energystar.gov/portfoliomanager)



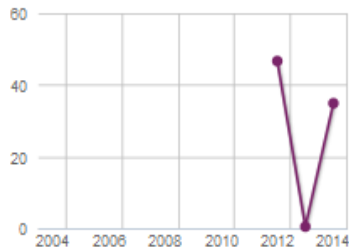
## MyPortfolio

[Sharing](#)[Planning](#)[Reporting](#)[Recognition](#)[Admin](#)[Processing](#)

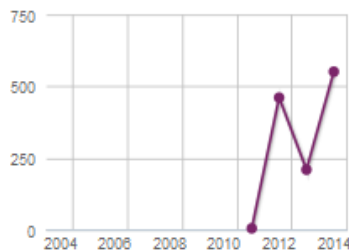
Properties (12)

[Add a Property](#)

### Source EUI Trend (kBtu/ft²)



### Total GHG Emissions Trend (Metric Tons CO2e)



[Transfer Ownership](#)

### Download Entire Portfolio

View all the information about your properties and your meter entries in one Excel spreadsheet.

[Download Entire Portfolio](#)

### Notifications (4) [View All](#)

	<a href="#">Karen Schneider</a> is the new Property Data Administrator for <a href="#">Karen's Test School - with apply button</a> (ownership transferred by <a href="#">Alexandra Sullivan</a> .)	<a href="#">Clear</a>
	<a href="#">Alexandra Sullivan</a> is the new Property Data Administrator for <a href="#">Karen's Test School - with apply button</a> (ownership transferred by <a href="#">Karen Schneider</a> .)	<a href="#">Clear</a>

### Properties (12) (Count includes 1 child properties. Expand carrots to view.)

[Add a Property](#)

Filter by: [View All Properties \(12\)](#)

[Search](#)

[Create Group](#) | [Manage Groups](#)

Name	Action
<a href="#">Campus child</a>	<a href="#">I want to...</a>
<a href="#">Clark's hotel</a>	<a href="#">I want to...</a>
<a href="#">International Bank</a>	<a href="#">I want to...</a>
<a href="#">International test</a>	<a href="#">I want to...</a>
<a href="#">Karen's Test Design</a>	<a href="#">I want to...</a>
<a href="#">Karen's Test Federal Facility - Big</a>	<a href="#">I want to...</a>
<a href="#">Karen's Test School - with apply button</a>	<a href="#">I want to...</a>
<a href="#">Sample Office-Data Center</a>	<a href="#">I want to...</a>
<a href="#">St. Luke's Episcopal Church</a>	<a href="#">I want to...</a>
<a href="#">Texas TAHFM Hospital</a>	<a href="#">I want to...</a>
<a href="#">Water Using Multifamily Property</a>	<a href="#">I want to...</a>



MyPortfolio

Sharing

Planning

Reporting

Recognition

Admin

Processing

## Water Using Multifamily Property

2022 Columbia Road NW, Washington, DC 20009 | [Map It](#)

Portfolio Manager Property ID: 4519663

Year Built: 1900

[Edit](#)

Not eligible to apply for ENERGY STAR Certification

Weather-Normalized Source EUI (kBtu/ft²) Why not score?

Current EUI: N/A

Baseline EUI: N/A

Summary

Details

Meters

Goals

Design

### Notifications (0)

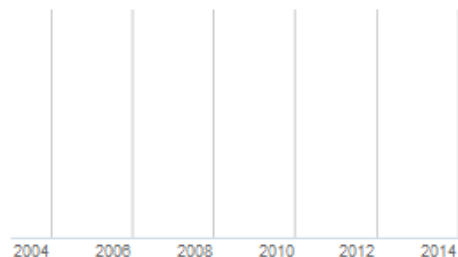
You have no new notifications.

### Property Profile

You haven't created a profile for your property yet. Profiles are a way to supplement the information in Portfolio Manager with additional information about your property, including a photo.

[+ Create Profile](#)

### Source EUI Trend (kBtu/ft²)



### Metrics Summary

Metric	Baseline (Not Available)	Current (Not Available)	Change
ENERGY STAR score (1-100)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A
Source EUI (kBtu/ft²)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A
Site EUI (kBtu/ft²)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A
Energy Cost (\$)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A
Total GHG Emissions (Metric Tons CO2e)	<a href="#">Not Available</a>	<a href="#">Not Available</a>	N/A

### Data Quality for this Property

The metrics that Portfolio Manager calculates depend on your [use details](#) and your energy bills. The data quality checker inspects the information you have entered to identify possible errors. If a property is shared with you as "Read Only," you will not be able to run the Data Quality Checker.

Date checker last run: N/A

Result: Unable to Check [! Run Check Now!](#)

[Check Data Quality](#)

### Sharing this Property





## Get Started Setting Up Meters for Water Using Multifamily Property

There are four ways to enter meter data. First, you can enter manually, starting below. Second, you can set up your meters below, then upload a specially formatted spreadsheet with just your bill data. Third, for advanced users, you can use our upload tool that allows you to set up all of your meters and enter bill data. And finally, you can hire an organization that exchanges data to update your energy data automatically.



### Sources of Your Property's Energy

What kind of **energy** do you want to track? Please select all that apply.

- Electric
- Natural Gas
- Propane
- Fuel Oil (No. 2)
- Diesel
- District Steam
- District Hot Water
- District Chilled Water

Don't see your energy sources?

[+ See more energy sources?](#)



### Tracking Energy

To track your energy, create an energy meter for each source of energy from a utility, a neighboring building, or an onsite solar or wind panel. If you purchase a raw fuel (e.g. gas) and produce your own fuel (e.g., electricity or chilled water), you only need a meter for the fuel you purchased (e.g. gas), and not for the fuel you produce.



### Entering Your Meters in Bulk

For advanced users, you may prefer to use the upload tool to [set up all of your meters with one click](#)



### Automate Your Meter Entries

If you have a lot of meters, you may want to consider hiring an organization that exchanges data to automatically update your energy consumption. [Learn more](#)



### Your Property's Water Usage

What kind of **water** do you want to track? Please select all that apply.

- Municipally Supplied Potable Water
  - Indoor
 

How Many Meters?
  - Outdoor
  - Combined Indoor/Outdoor or Other
- Municipally Supplied Reclaimed Water
- Alternative Water Generated On-Site:
- Other:

**Get Started!**

[Cancel](#)



## Manage Bills (Meter Entries) for [Water Using Multifamily Property](#)

You may select one of your meters to get started. Or, if you are coming here from your meter list, a meter may already be selected.

Potable Indoor Meter ▼

Display Year(s): 2015 ×

	Start Date	End Date	Usage MGal (million gallons) (US)	Cost (\$)	Estimation	Last Updated
<input type="checkbox"/>	12/1/2014	1/1/2015	9.88		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	1/1/2015	2/1/2015	9.9		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	2/1/2015	3/1/2015	9.89		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	3/1/2015	4/1/2015	9.75		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	4/1/2015	5/1/2015	9.75		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	5/1/2015	6/1/2015	9.77		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	6/1/2015	7/1/2015	9.87		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	7/1/2015	8/1/2015	9.56		<input type="checkbox"/>	8/24/2015 SCHNITZERA
<input type="checkbox"/>	8/1/2015	8/24/2015	9.56		<input type="checkbox"/>	8/24/2015 SCHNITZERA

[Delete Selected Entries](#)

[Add Another Entry](#)

[Download](#) to Excel

Upload data in bulk for this meter:

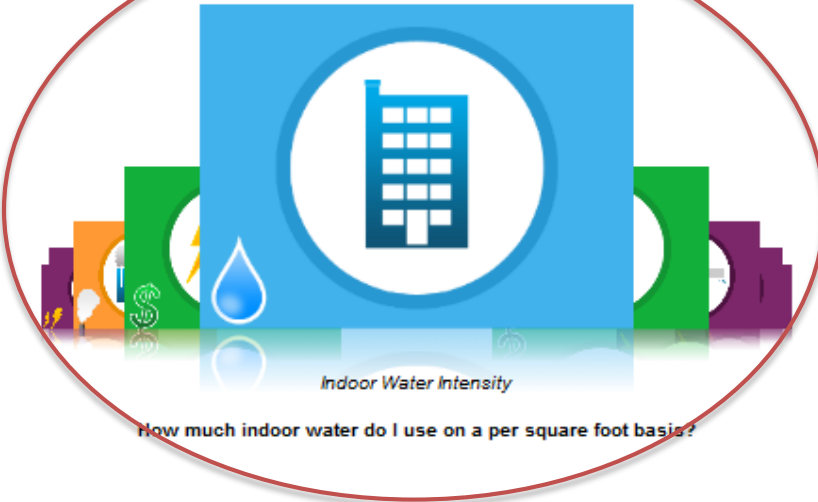
You can copy/paste into the table above ([instructions in this FAQ](#)), or upload an Excel spreadsheet using our [spreadsheet template](#).

No file selected.



- MyPortfolio
- Sharing
- Planning
- Reporting**
- Recognition
- Admin
- Processing

## Charts & Graphs



## ENERGY STAR Performance Documents

- [Statement of Energy Performance \(SEP\)](#)
- [Statement of Energy Design Intent \(SEDI\)](#)
- [Data Verification Checklist](#)
- [Progress & Goals Report](#)
- [ENERGY STAR Score Card](#)

## Templates & Reports (11)

Create a New Template

Name	Status	Action
Partner of the Year Report	Generated: 8/24/2015 12:42 PM	I want to... <input type="button" value="v"/>
Performance Highlights	Generated: 8/11/2014 5:18 PM	I want to... <input type="button" value="v"/>
▶ September NBC Submissions	Generated: 9/16/2013 11:01 AM	I want to... <input type="button" value="v"/>
▶ Demonstration Template	No Report Generated	I want to... <input type="button" value="v"/>
Energy Performance	No Report Generated	I want to... <input type="button" value="v"/>
Emissions Performance	No Report Generated	I want to... <input type="button" value="v"/>
<b>Water Performance</b>	No Report Generated	I want to... <input type="button" value="v"/>
Fuel Performance	No Report Generated	I want to... <input type="button" value="v"/>
ENERGY STAR Certification Status	No Report Generated	I want to... <input type="button" value="v"/>

# Reports and Charts

- Generate charts and graphs
  - See water use intensity across your portfolio, by use type, by property type, by building group
  - Download tables of average water use intensity by group, property type, state
- Quickly generate reports
  - Water performance report
  - Create your own reports using the 100s of metrics available





## 1-100 Score for Water Efficiency?

- ENERGY STAR and WaterSense are working together to assess feasibility of a water score for multifamily properties
- EPA plans to circulate a short survey this fall to gather additional information about water use in this sector
- If you'd like to help make a score for water efficiency possible:
  - Open a Portfolio Manager account
  - Start tracking energy and water use
  - Respond to the survey when it becomes available

## Free Training Resources

- Quick-start guides
- Live and recorded webinars
- Express videos – short animated demos



[www.energystar.gov/buildings/training](http://www.energystar.gov/buildings/training)



## Other helpful resources

- [ENERGY STAR Building Upgrade Manual](#)
- [ENERGY STAR Guidelines to Energy Management](#)
- [TIAA-CREF case study](#)
- [City of Seattle Office of Sustainability & Environment case studies](#)
- [No- and Low-Cost Checklist for Saving Energy and Water in Multifamily Housing](#)

Multifamily resources available at [www.energystar.gov/multifamily](http://www.energystar.gov/multifamily)



# Need Help

- Ask a Question
  - [www.energystar.gov/BuildingsHelp](http://www.energystar.gov/BuildingsHelp)
- Take a Training
  - 3-5 minute You Tube Videos
  - Step-by-Step PDF Documents
  - Live and recorded webinars
  - [www.energystar.gov/buildings/training](http://www.energystar.gov/buildings/training)
- Sign up for webinars
  - <http://esbuildings/webex.com>
- Review Technical Documents
  - <http://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager/understand-metrics>



# For More Information

**Andrea Schnitzer**

Phone (202) 343-9064

[schnitzer.andrea@epa.gov](mailto:schnitzer.andrea@epa.gov)



[www.energystar.gov/multifamily](http://www.energystar.gov/multifamily)



# Questions?

# Future HUD Water Wednesday Webinars



	<a href="http://epa.gov/watersense/hudwebinars">http://epa.gov/watersense/hudwebinars</a>
September 16 <i>(date change)</i>	<b>Incorporating Green Infrastructure into Housing Developments</b> Learn about EPA resources to help integrate green infrastructure and hear about experiences from HUD grantees
October 28*	<b>Greywater Reuse – Is it Right for Your Facilities?</b> 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!

look for



- In concert with this training, HUD is requesting feedback on water issues via the public forum “Water Watch” on Switchboard.
- <http://switchboard.uservice.com/forums/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?

# WaterSense Information

look for



## Visit us online!

- [www.epa.gov/watersense](http://www.epa.gov/watersense)
  - [HUD webinars at  
www.epa.gov/watersense/hudwebinars](http://www.epa.gov/watersense/hudwebinars)
  - [BMPs at  
www.epa.gov/watersense/commercial](http://www.epa.gov/watersense/commercial)
- [www.facebook.com/epawatersense](https://www.facebook.com/epawatersense)
- [www.twitter.com/epawatersense](https://www.twitter.com/epawatersense)

## Questions?

E-mail: [watersense@epa.gov](mailto:watersense@epa.gov)

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

