# http://ifma.org/my-account/login



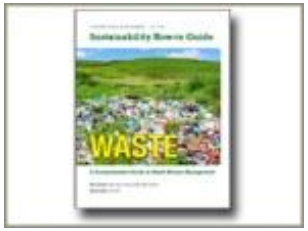

**Facility Management Journal**: IFMA's award-winning bimonthly publication.




**IFMA Insider:** Informative weekly e-newsletter delivers the top stories in FM news and business trends.




**The Wire:** Biweekly e-newsletter keeps you updated on association news, events, courses, resources, and opportunities.




**FM Knowledge Center:** 24/7 FM education featuring courses, white papers, recording, webcasts and more.




**FM Job Search:** IFMA members have access to new FM job postings one week prior to the general public.




**IFMA's LinkedIn Group:** Engage in FM-related discussions with thousands of facility professionals all over the world.




**FM Deals and Discounts:** Members-only savings on IFMA courses and events, and from solutions providers.




**Bookstore Discounts:** Members-only savings on publications and reports.



**Local and Global Networking:** Join one of 130 IFMA chapters and one of 17 IFMA councils to connect with colleagues in your city, state, province, or country who support similar types of facilities or business sectors.



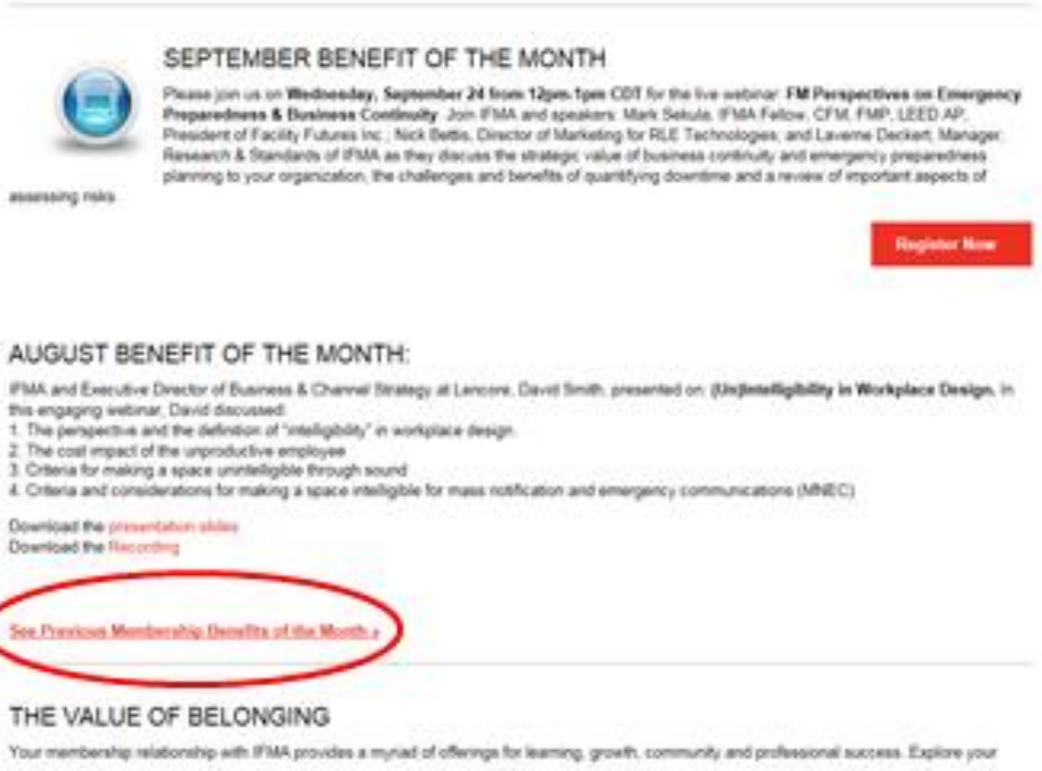

**FM Buyer's Guide:** An online database of facility solutions providers.

**In the last year, IFMA has further strengthened its value for members, log in to your My IFMA Page to learn more**

IFMA™
International Facility Management Association
Empowering Facility Professionals Worldwide

- The webinar is being recorded and will be accessible by logging into your My IFMA account: http://www.ifma.org/my-account/login

- You can access the member benefits from the previous months by logging into your MY IFMA account.



SEPTEMBER BENEFIT OF THE MONTH

Please join us on **Wednesday, September 24 from 12pm-1pm** CDT for the live webinar: **FM Perspectives on Emergency Preparedness & Business Continuity**. Join IFMA and speakers: Mark Sekula, IFMA Fellow, CFM, FMP, LEED AP, President of Facility Futures Inc.; Nick Bettis, Director of Marketing for RLE Technologies; and Laverne Deckert, Manager, Research & Standards of IFMA as they discuss the strategic value of business continuity and emergency preparedness planning to your organization, the challenges and benefits of quantifying downtime and a review of important aspects of assessing risks

Register Now

AUGUST BENEFIT OF THE MONTH:

IFMA and Executive Director of Business & Channel Strategy at Lencore, David Smith, presented on: **(Un)Intelligibility in Workplace Design.** In this engaging webinar, David discussed:
1. The perspective and the definition of "intelligibility" in workplace design
2. The cost impact of the unproductive employee
3. Criteria for making a space unintelligible through sound
4. Criteria and considerations for making a space intelligible for mass notification and emergency communications (MNEC)

Download the presentation slides
Download the Recording

See Previous Membership Benefits of the Month »

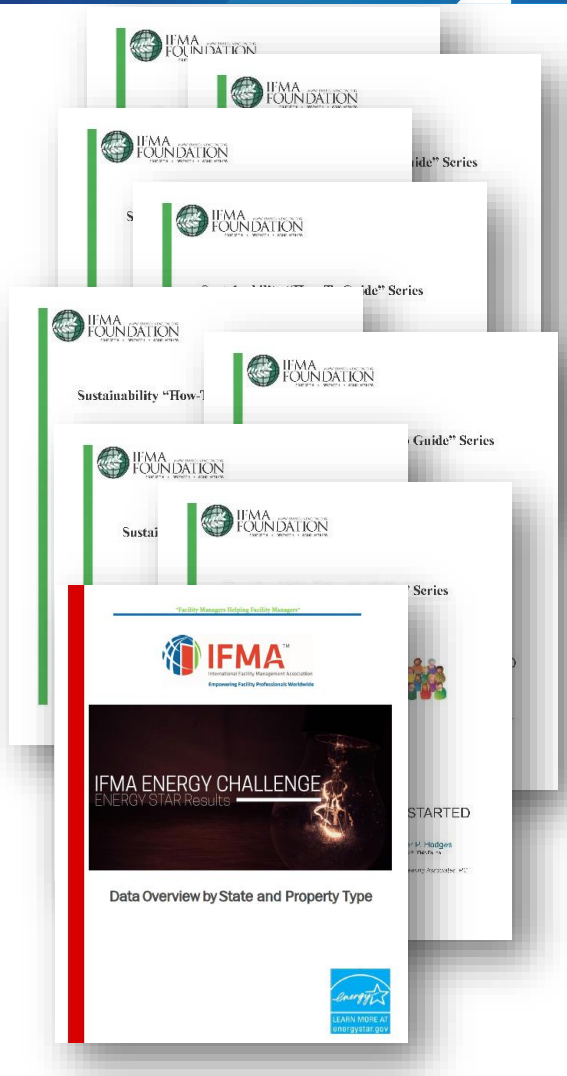
THE VALUE OF BELONGING

Your membership relationship with IFMA provides a myriad of offerings for learning, growth, community and professional success. Explore your

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# ESUS SAG Activities

- SFP Program
- 17 How-to Guides
- Monthly educational webinars
- Sustainability liaison calls
- Bi-monthly eFMJ articles
- Monthly SAGsheet Newsletter
- Projects (Voice of the Tenant, City Energy Project, ENERGY STAR Challenge, Zero Waste, Resilience, IoT)
- Liaisons with DoE, EPA, CEP, USZWBC, SPLC, RICs



NEW TOPIC POLL SURVEY COMING OUT

# 2016 Webinar Editorial Calendar

Jan 21 Sustainable Procurement
Feb 17 ENERGY STAR (Guide Webinar)
Mar 8 Getting Started (Guide Webinar) (178 registrants)
May 18: 12 PM Central: Measuring and Reporting (Guide Webinar)(375 registrants)
Jun 22: Waste Disposal (Guide)(159 registrants)
July 3: Voice of the Tenant – Tenant Star – Cindy Jacobs, EPA (144 registrants)
Sep 7, Resilience Planning for Facility Managers Dr. Sarah Slaughter, MIT, BICE, (135 registrants)
Nov 8, Energy Storage: Is it Right for our Building, Jay Paidipatri, Navigant
**Jan 11: Energy and Water Benchmarking – Bringing Financial and Sustainability Value to Your Building**



- **Christopher Laughman, Assistant Vice President &**
- **Director of Facilities, Federal Reserve Bank of St. Louis**
- Chris Laughman, CFM, LEED AP O&M,SFP is the Director
- of Facilities and Assistant Vice President for the Federal
- Reserve Bank of St. Louis, one of 12 independent Federal
- Reserve Banks that make up the Federal Reserve Banking System in the United States. In his role, Chris oversees all facility operations and real estate management for the Bank's locations across the 7 states that make up the 8th District. Chris also works towards reducing the impact of those operations through the initiation of sustainability initiatives within the facility management team. Chris has 16 years of Facility Management Experience ranging from retail to commercial operations. Chris earned his Master's Degree from Webster University and is in the final classes of his MBA in Business Sustainability from Marylhurst University. In addition, he is the past president of the St. Louis IFMA Chapter.



- **Lauren Zullo, Director of Partnerships and Strategic**
- **Planning, City Energy Project**

Lauren Zullo, LEED AP O+M, is Director of National Initiatives for the City Energy Project, a joint initiative between Natural Resources Defense Council and Institute for Market Transformation. She works to establish successful, replicable, market-based policies and programs that improve energy and water performance of existing buildings and reduce the carbon footprint of the built environment. She joined NRDC in 2012 as an Environmental Innovation Fellow for NRDC's Center for Market Innovation. Prior to NRDC, Lauren worked for commercial real estate development firm Greenebaum & Rose Associates in Washington, DC where she focused on sustainability and asset management. Lauren received her A.B. from Bowdoin College and has served on USGBC's LEED Advisory Committee since 2013.

# Introduction and Agenda

- Meeting Objectives:
- Understand the value of energy and water benchmarking for your building
- Learn how to start the benchmarking process
- Learn how IFMA chapters and members can work together to promote benchmarking
- Understand how local governments are increasingly using energy and water benchmarking data

# Bringing Financial & Sustainability Value to your Building

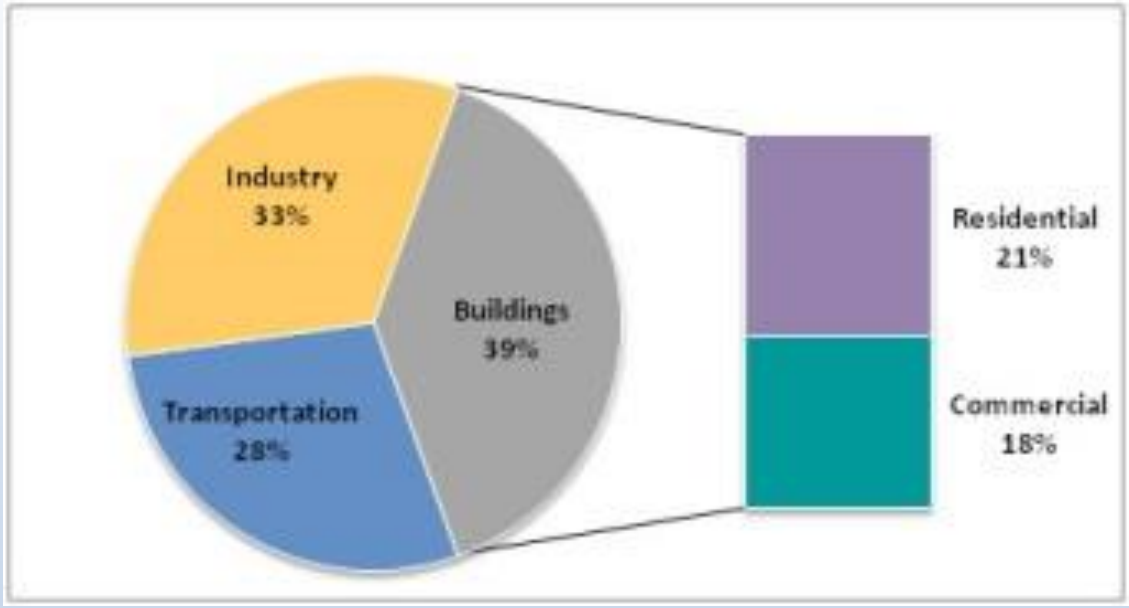
## Energy & Water Benchmarking

"Who am I? Why am I here?"



# Bringing Financial & Sustainability Value to your Building

## Energy & Water Benchmarking




Source: U.S. Department of Energy, 2008 Buildings Energy Data Book, Section 1.1.1, 2008.

Buildings: The biggest slice of the pie

# Bringing Financial & Sustainability Value to your Building

## Energy & Water Benchmarking



# The City Energy Project is a national initiative to improve energy & water efficiency of buildings

## Funders

Bloomberg Philanthropies

THE KRESGE FOUNDATION

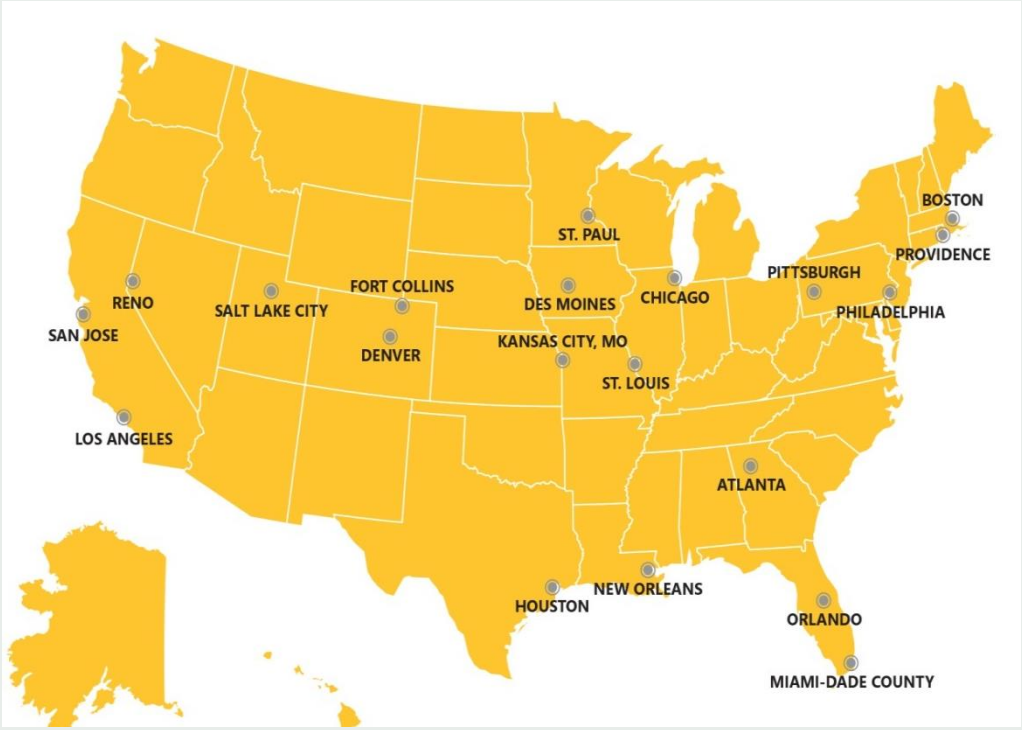
DORIS DUKE CHARITABLE FOUNDATION

## Hub Staff

NRDC

IMT INSTITUTE FOR MARKET TRANSFORMATION

## 20 Cities



# Measuring performance and providing market transparency boosts efficiency in buildings



# Output from Portfolio Manager

## ENERGY STAR® Progress & Goals Report

LEARN MORE AT energystar.gov

**71**

**ENERGY STAR® Score**[1]

### Sample Property

**Primary Property Function:** Office
**Gross Floor Area (ft²):** 51,000
**Built:** 1951

**For Year Ending:** August 31, 2014
**Date Generated:** October 01, 2014

**Property Address:**
Sample Property
123 Main St
Boston, Massachusetts 02134

**Property ID:** 3681885

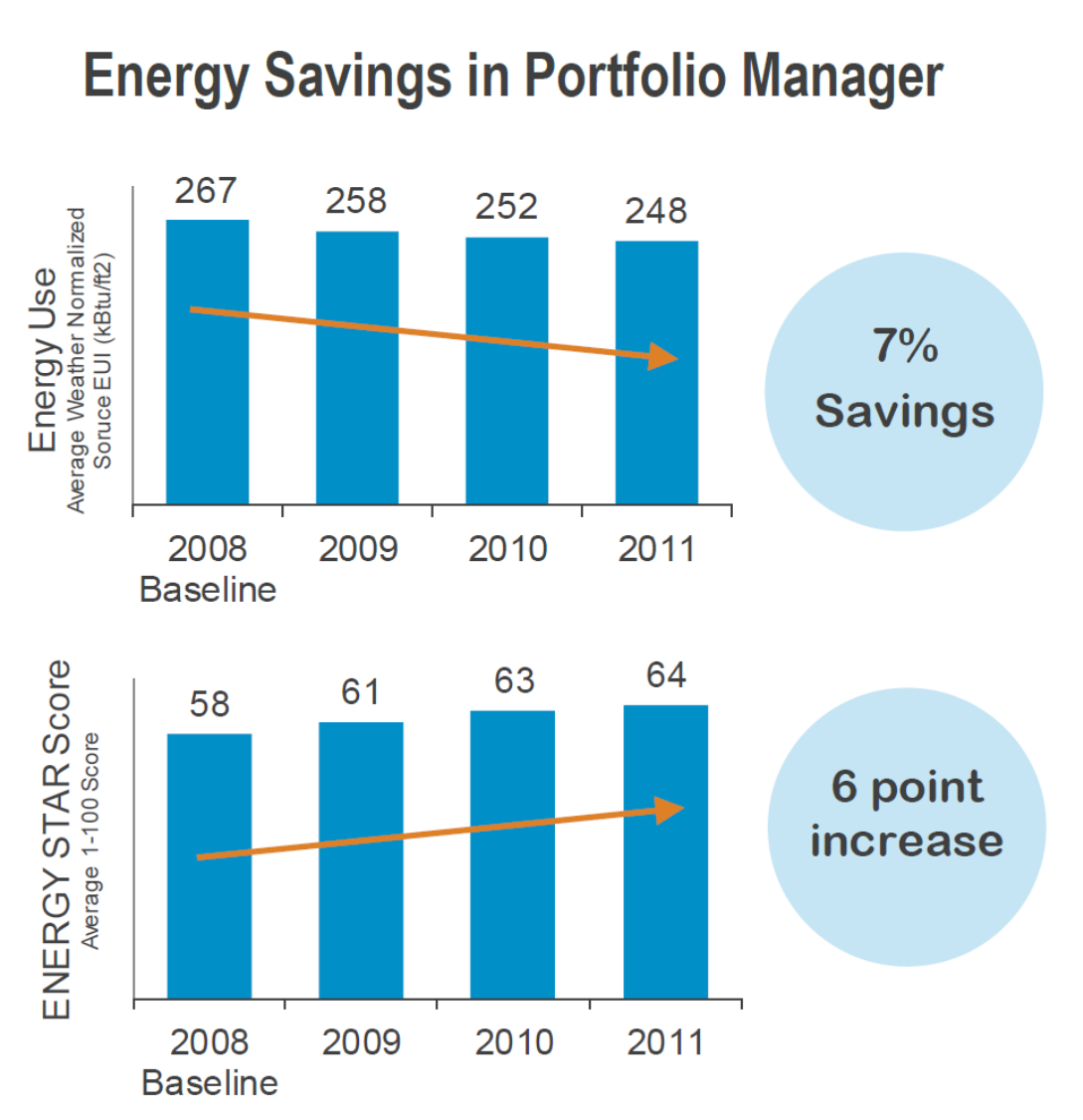
1. The ENERGY STAR score is a 1-100 assessment of a building's energy efficiency as compared with similar buildings nationwide, adjusting for climate and business activity.

**Performance Comparison**

| | | Progress | | | Performance Goals | |
|---|---|---|---|---|---|---|
| | Year Ending 12/31/2012 (Baseline) | Year Ending 8/31/2014 (Selected) | % Change | Property's Target | National Median | ENERGY STAR Score of 75 |
| ENERGY STAR Score | 61 | 71 | 14 | 85 | 50 | 75 |
| **Energy** | | | | | | |
| Site EUI (kBtu/ft²) | 59.5 | 71.9 | -17.25 | 57.8 | 92.7 | 68.5 |
| Source EUI (kBtu/ft²) | 186.8 | 169 | 10.53 | 135.8 | 217.8 | 161.1 |
| $ | 88,999.01 | 83,409.65 | -6.28 | 67,052.54 | 107,513.12 | 79,465.38 |
| $/ft² | 1.75 | 1.64 | -6.28 | 1.31 | 2.11 | 1.56 |
| **Greenhouse Gas Emissions** | | | | | | |
| Metric Tons CO2e/year | 293.5 | 295.3 | 0.61 | 237.4 | 380.6 | 281.3 |
| kgCO2e/ ft2/year | 5.8 | 5.8 | 0.61 | 4.7 | 7.5 | 5.5 |
| **Water** | | | | | | |
| All Water Consumption (kgal) | 300 | 295 | -1.67 | * | * | * |
| Indoor Water Consumption (kgal) | 300 | 295 | -1.67 | * | * | * |
| Indoor Water Consumption (kgal/ft²) | 5.88 | 5.78 | -1.67 | * | * | * |
| $ | 450 | 442.51 | -1.66 | * | * | * |

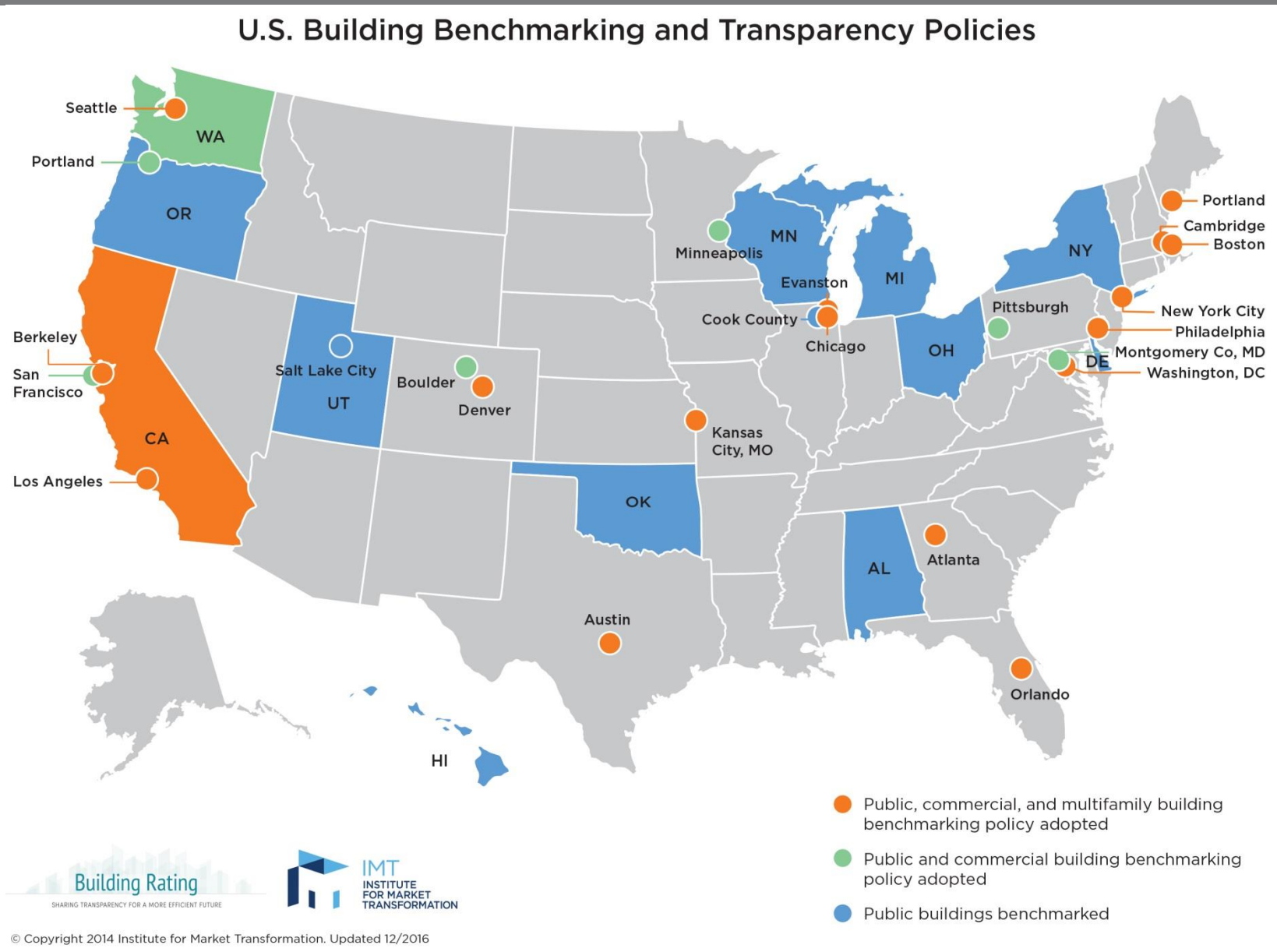
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| Source EUI (kBtu/ft²) | 186.8 |
| $ | 88,999.01 |
| $/ft² | 1.75 |
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| **Water** | |
| All Water Consumption (kgal) | 300 |
| Indoor Water Consumption (kgal) | 300 |
| Indoor Water Consumption (kgal/ft²) | 5.88 |
| $ | 450 |

# Buildings that consistently benchmark have demonstrated 2.4% energy savings annually




Source: U.S. EPA, ENERGY STAR Portfolio Manager Data Trends, *Benchmarking and Energy Savings* (October 2012)
https://www.energystar.gov/buildings/tools-and-resources/datatrends-benchmarking-and-energy-savings

# There is momentum in the market for benchmarking and transparency




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# Published results from local benchmarking ordinances

| City | Program Attributes | Energy Reduction | Annual Energy Reduction |
|---|---|---|---|
| Seattle (2011 -2013)[1] | Benchmarking & Transactional Disclosure | 0.6% (over 2 years) | 0.3% |
| Chicago (2013 -2015)[2] | Benchmarking & Transparency | 4.0% (over 3 years) | 1.3% |
| New York City (2010 -2013)[3] | Benchmarking & Transparency | 5.7% (over 3 years) | 1.9% |
| San Francisco (2010-2014)[4] | Benchmarking & Transparency | 7.9% (over 4 years) | 2% |
| Washington, D.C. (2012 -2013)[5] | Benchmarking & Transparency | 9% (over 3 years) | 3% |

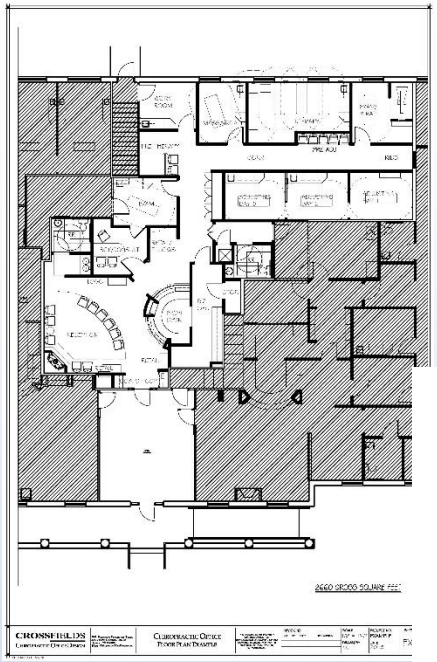
# Bringing Value to your Chapter



# Energy Star Benchmarking Classes



# Very basic data

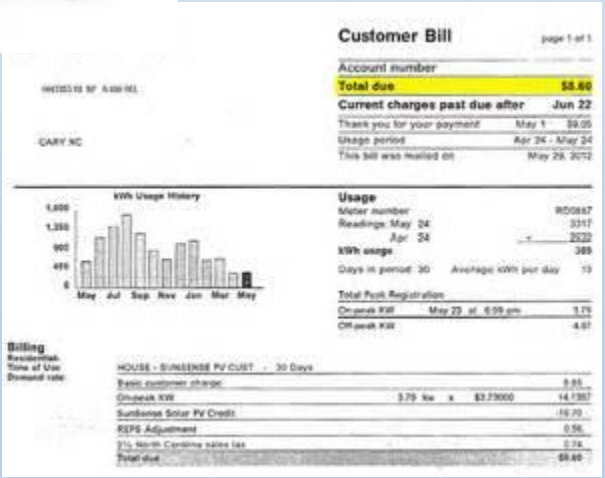












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# Thank you for joining us today!

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