Madison Benchmarking Ordinance

December 3, 2013

What is Benchmarking?

 Measurement of a building's annual energy performance

total energy consumed in one year (GJ) / total floor space of the building (sq.ft.)

- Allows comparison of energy performance:
 - same building year to year,
 - to others in your portfolio, and
 - among buildings of its type nationally



Building Value Through Energy Efficiency

 Studies show that benchmarking promotes action, and that energy efficient buildings are more profitable at resale.



US Bank Plaza: Energy Star Rated Urban Land Interests, Madison

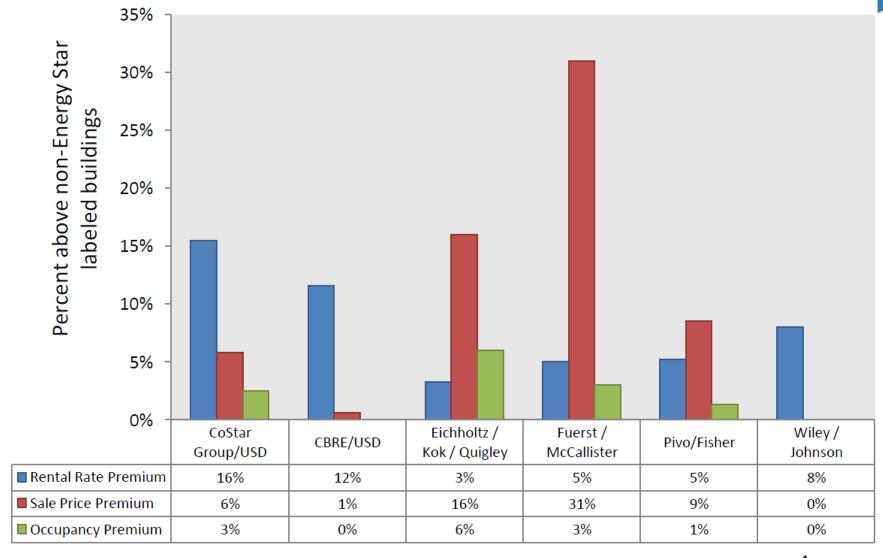


Figure 1 Studies evaluating the added market value of Energy Star labeled buildings.¹

Source: Benchmarking and Disclosure: Lessons from Leading Cities, Boston Green Ribbon Commission's Commercial Real Estate Working Group, June 2012

Benchmarking Program Design

Goal

More Efficient Building Stock

Results

Reduced GHG Emissions

Connection with Existing Incentive Programs

Guidance on Making Buildings
More Efficient

Data Helps Evaluate Building Efficiency

Benchmarking Ordinance

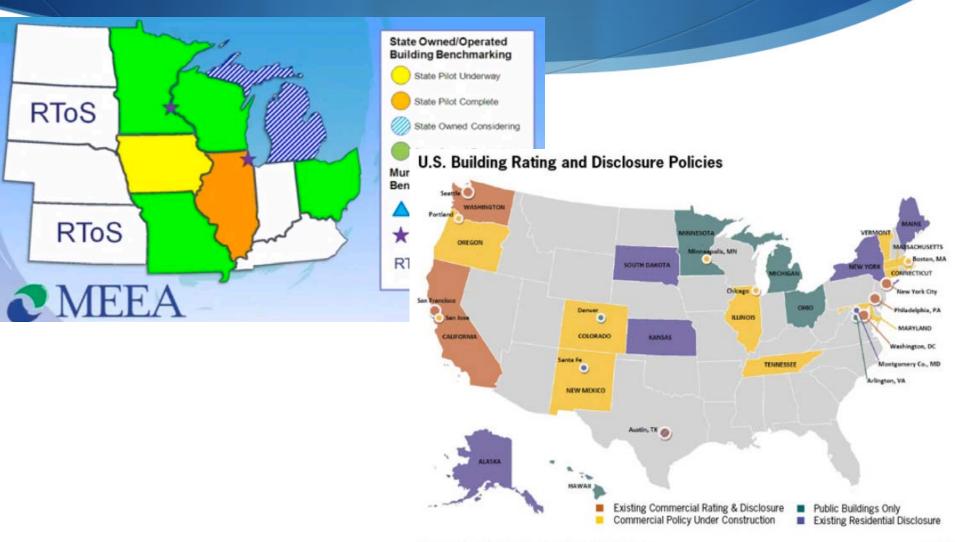
Reduced Dependence on Fossil Fuels

Improved Resilience & Health

Financial Savings \$3-4 per \$1 spent

Starting Point

US & Midwest Benchmarking Legislation Status



Madison Benchmarking Ordinance

Target Audience

Public and Commercial Buildings

Goals

- o Energy performance and water use measurement
- o Market-Driven energy performance
- Acceleration of energy efficiency
- o Reduced city-wide carbon footprint

Submission

Annual energy use data in Energy Star Portfolio Manager

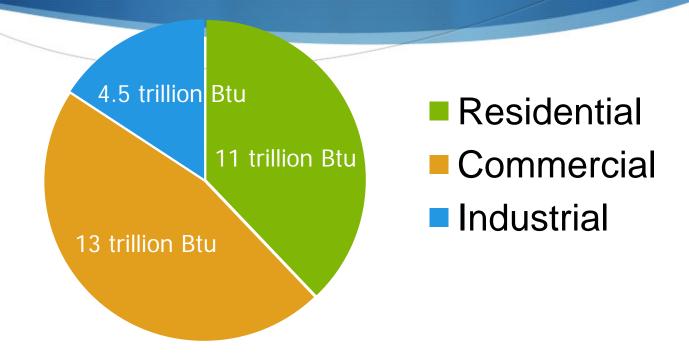
Phased Reporting

•1 year grace period

Assistance with Implementation

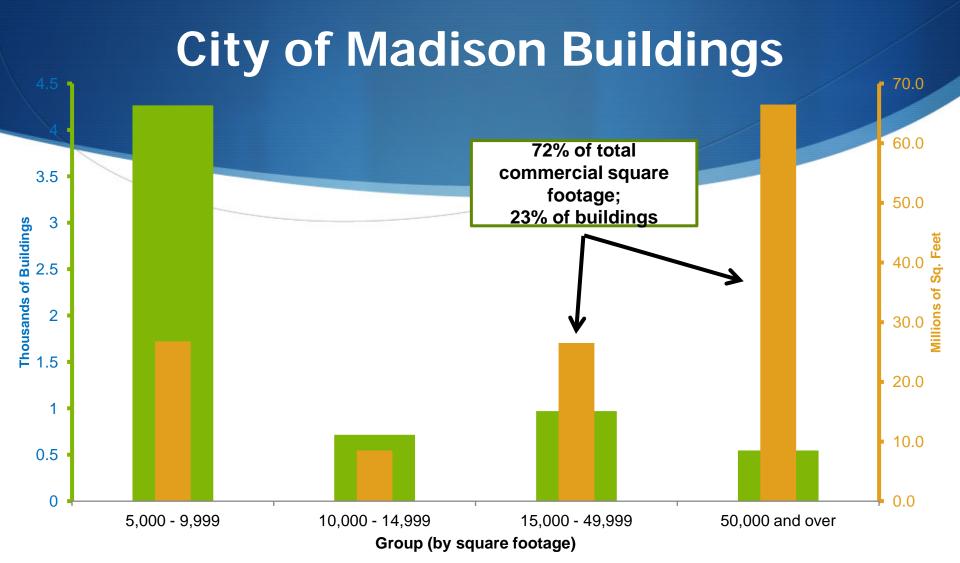
•City, MGE, Mpower, Focus on Energy, WI Green Building Alliance, UW-Extension, SEO, US EPA, IMT, MEEA

Madison Energy Use (trillion Btu)



Commercial Buildings currently use 46% of energy in Madison

Source: MG&E 2012 Annual Report



Benchmarking commercial buildings over 15,000 sq ft has potential to save **300 billion Btu's** per year

Overview of Madison's Benchmarking Ordinance

Energy Benchmarking

- Public and Commercial Buildings ≥ 15,000 SF required to track energy consumption
- Multi-Family Residential Rental Buildings > 35 units
- Energy data entered into Energy Star Portfolio Manager (free, web-based)
- Phased implementation based on building size. Benchmark 1 year energy use. Report by:
 - City owned buildings:

starting May 1, 2014

- Buildings ≥ 50,000 SF: **2015**
- Buildings ≥ 15,000 SF: **2016**
- Multi-Family Rentals > 35 units:

Data Verification

- Every 3 years, building energy data must be verified by an energy professional
- Verification improves data quality and levels the playing field
- Approximate cost based on building complexity and data accuracy: \$500 -\$2,000

Reporting and Disclosure

- Buildings report energy use annually, using automated Portfolio Manager tool
- City reports annually to the public on energy efficiency trends
- City makes energy scores public after 2 year grace period; allows time to improve scores.
- Disclosure schedule:
 - City owned buildings:

starting July 30, 2014

• Buildings ≥ 50,000 SF: **2016**

• Buildings ≥ 15,000 SF: **2017**

Multifamily residential

buildings > 35 units: **2018**

Experience of Madison Businesses that Benchmark

Urban Land Interests

"Urban Land Interests benchmarked the US Bank Plaza before and after strategic renovations. We cut energy usage by 35-40% for an estimated annual saving of \$250,000, dropped water usage 85% from 32 million to 3.9 million gallons per year, and moved from an Energy Star rating of 41 to Energy Star certified status to a score of 91 out of 100. We earned LEED Gold certification for Existing Buildings Operations and Maintenance as a result, and currently, have a vacancy under 10%. We believe that benchmarking is the necessary first step to improve building energy performance. As an ongoing tool, it allows us to verify energy use reductions and ensure that our buildings are performing as well as possible. Benchmarking is good business practice." -
- Matt Darga, Director of Commercial Property Management

American Family Insurance

At American Family Insurance, we benchmark all our buildings across the US with EPA's Portfolio Manager. The primary benefit we have seen is a consistent platform for comparing our energy consumption within our portfolio as well as with other buildings across the nation. Through a series of energy conservation projects since benchmarking began in 2007, American Family has recognized more than \$1.7 million in savings in our Madison buildings alone. The awareness that the ordinance would create amongst businesses of their own energy consumption compared to others could aid in motivating them toward similar benefits to those we have recognized."

- Sean W. Hyland, Facilities Program Administrator

Engage Stakeholders of Madison Benchmarking Ordinance

