

Department of Housing and Urban Development (HUD) Public Housing- Utility Tracking and Benchmarking Roundtable

Better Buildings Summit Monday, May 9th



AND URBAN DEVELOPMENT PUBLIC HOUSING UTILITY TRACKING AND BENCHMARKING ROUNDTABLE

Monday, May 9, 2016 3:45 - 5:00

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Part 2: Benchmarking

PART 1: UNDERSTANDING THE LANGUAGE OF ENERGY

Which House Uses More Energy?





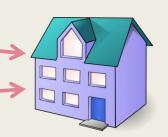
Which House is the Most Energy Efficient?

Energy Consumption / Square Foot

Energy Consumption / Apartment

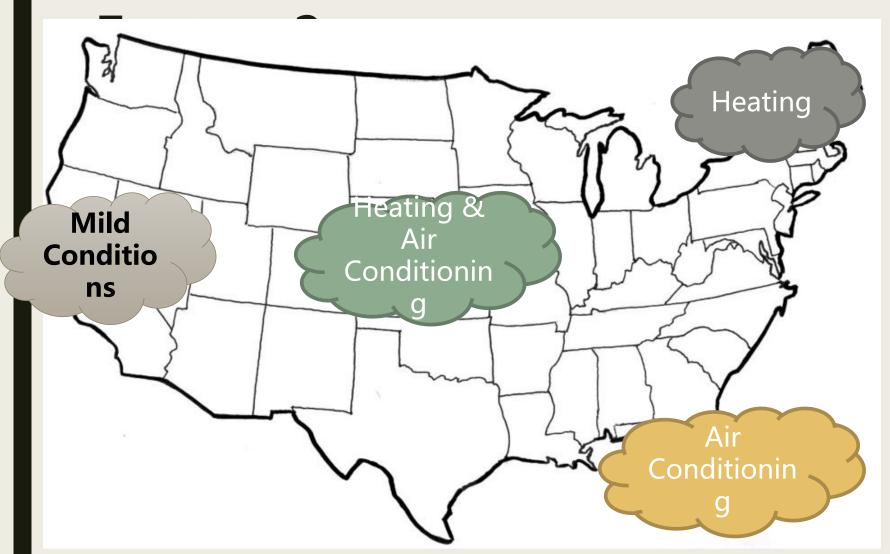
Energy Consumption / Occupant

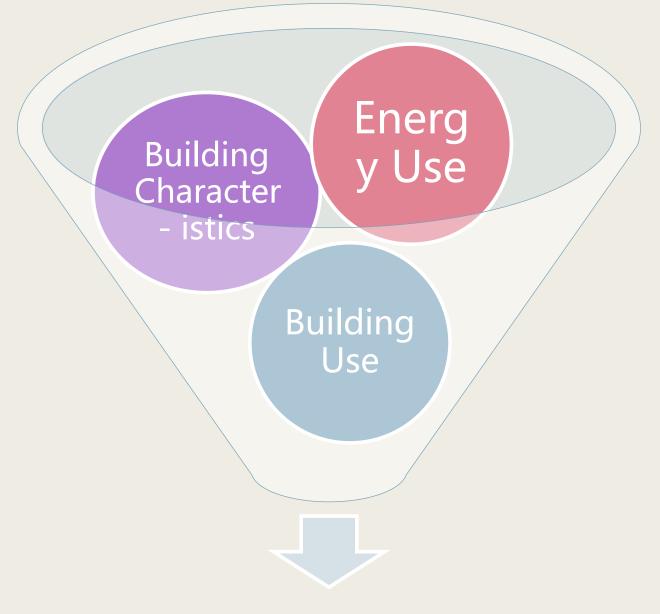
Energy Consumption / Hours of Occupancy





What About Location?





Benchmarking Score

PART 2: BENCHMARKIN G

Benchmarking

Benchmarking is a simplified way to compare the energy efficiency of different buildings while taking into account...

- Building Characteristics
- Building Occupancy
 - People, hours of operation (housing is 24 hours)
- Local Temperature
 - Heating Degree Days, Cooling Degree Days
- Building Use Patterns
 - Postaurant Community Contor

Main Components of Benchmarking

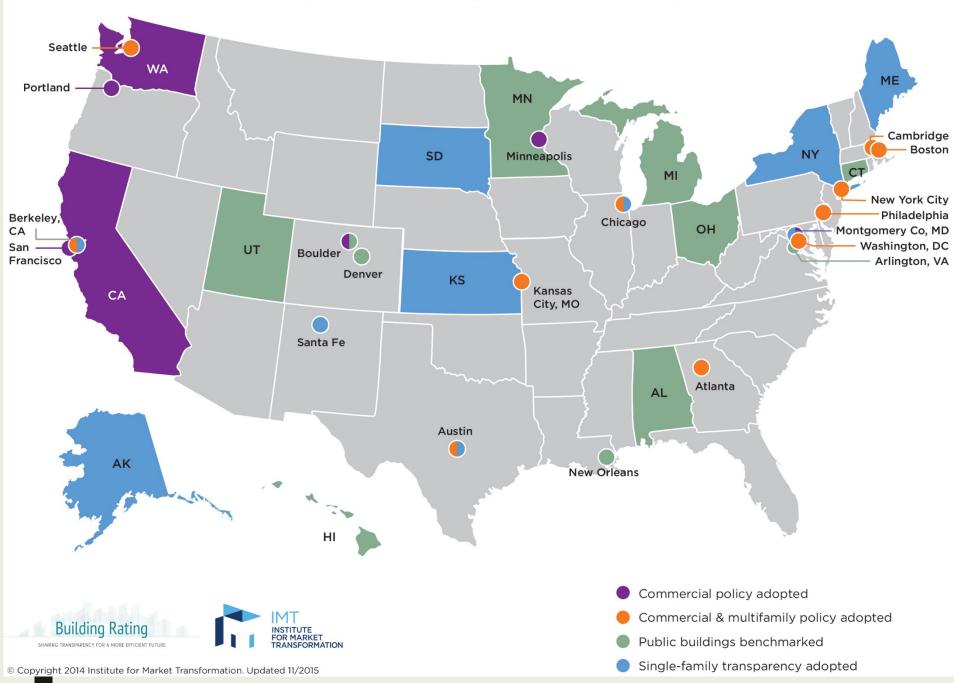
Energy Consumption

- Electricity
- Natural Gas
- Fuel Oil
- Water

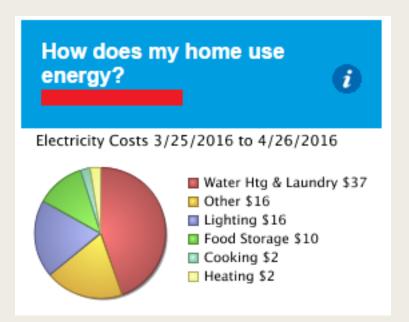
- Building Characteristics
- Building Square Footage
- Use Patterns

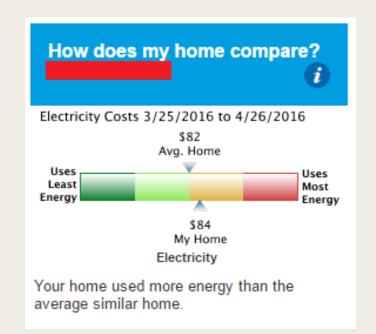
Benchmarking Score

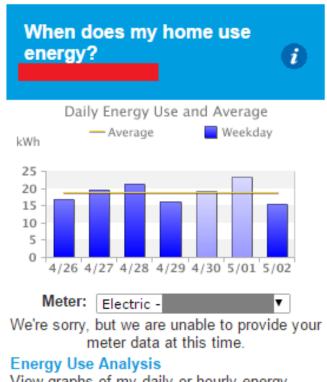
U.S. Building Benchmarking and Transparency Policies



UTILITY COMPANY BENCHMARKIN G



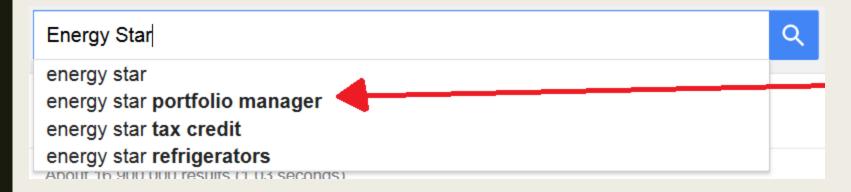




View graphs of my daily or hourly energy use. Loading your energy charts may take several seconds.

ENERGY STAR PORTFOLIO MANAGER

Energy Star Portfolio Manager



https://www.energystar.gov/buildings/facility-ownersand-managers/existing-buildings/use-portfoliomanager

https://www.energystar.gov/



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Q

Owners and managers

Service providers

Program administrators

Tools and Resources

Training

Existing buildings

Commercial new construction

Industrial energy management

Small business

Congregations

IN THIS SECTION

Learn the benefits

Get started

Use Portfolio Manager

How Portfolio Manager helps you save

The benchmarking starter kit Identify your property type

Enter data into Portfolio Manager

The data quality checker

How Portfolio Manager calculates metrics

Interpret your results

Verify and document your savings

Share and request data

Updates to ENERGY STAR scores with CBECS data



The most-used energy measurement and tracking tool for commercial buildings.

Use Portfolio Manager

You've heard it before: you can't manage what you don't measure. That's why EPA created ENERGY STAR Portfolio Manager®, an online tool you can use to measure and track energy and water consumption, as well as greenhouse gas emissions. Use it to benchmark the performance of one building or a whole portfolio of buildings, all in a secure online environment.

Not sure if Portfolio Manager is for you? It is!

- You can use Portfolio Manager to manage the energy and water use of any building.
 - Seriously, Any building, K-12 school? Check, Office building? Check, Stadium? Check. We could keep going. All you need are your energy bills and some basic information about your building to get started.

Portfolio Manager® to GRESB Converter



Convert Portfolio Manager data into GRESB Performance Indicators





Discover the new and improved Portfolio Manager today.

SIGN UP

Not sure if Portfolio Manager is for you? It is!

You can use Portfolio Manager to manage the energy and water use of any building. Seriously. Any building. K-12 school? Check. Office building? Check. Stadium? Check. We could keep going. All you need are your energy bills and some basic information about your building to get started.

Are you designing a new commercial building? You can also use Portfolio Manager to set your energy use target and see how your estimated design energy stacks up against similar existing buildings nationwide.



Join the rest of the industry.

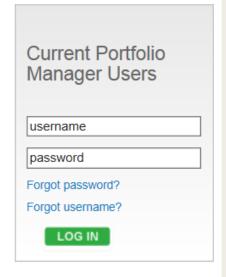
When you add your buildings, you'll be joining 40 percent of U.S. commercial building space that's already benchmarked in Portfolio Manager — making it the industry-leading benchmarking tool. You'll also be joining more than half of the Fortune 100®, half of the largest U.S. healthcare organizations, major league sports teams, colleges and universities, and entire cities.

It's only growing.

And it's on the move. Portfolio Manager is the tool of choice among cities such as New York, Seattle, and Boston that have passed mandatory benchmarking laws. Not only that, but Portfolio Manager is used by the Canadian Government as the platform for

today.

SIGN UP



Get help

Looking for Portfolio Manager technical support? Visit our help center.

Sources of Utility Data

- Utility Provider
 - Paper Utility Bills
 - Online Access with Utility Provider

Utility Meters & Sub Meters

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