



ENERGY STAR® Portfolio Manager: Benchmark, Track, and Report Commercial Building Energy Use

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What is ENERGY STAR for Buildings?

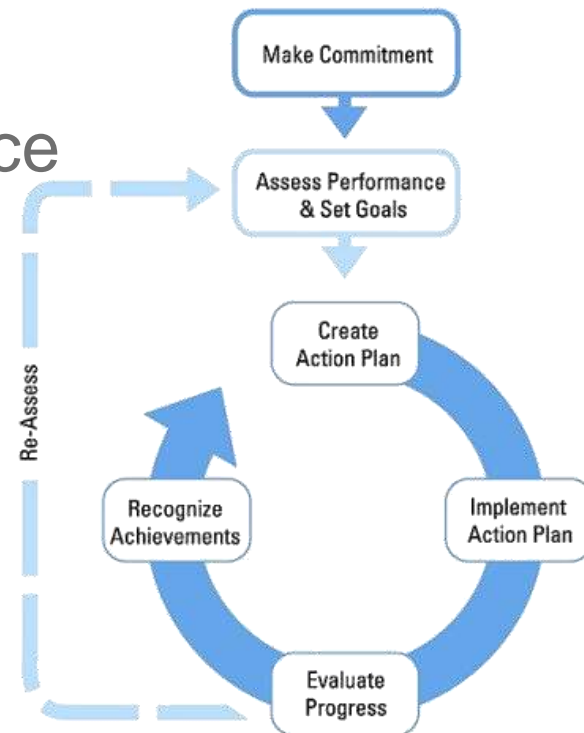


- EPA voluntary climate protection partnership with energy users and service and product providers
- Helps organizations benchmark, track, and improve energy performance
- Helps organizations save energy and money and protect the environment
- Brand recognition - 85% of Americans
- ENERGY STAR on a building = Superior Energy Performance

ENERGY STAR Strategic Approach to Energy Management



- Organization Commitment
- Benchmark Energy Performance
- Set Goals
- Evaluate Project Progress
- Document Savings
- Recognize Achievements



ENERGY STAR Buildings Program Milestones



Since 1999:

- **350,000 buildings** benchmarked energy performance
- **5,800 organizations** joined as partners
- **22,000 buildings** earned the ENERGY STAR



- Tool that Empowers the ENERGY STAR Program
- The National Standard for Benchmarking Energy Use
 - More than 70,000 accounts
 - Used by Commercial Real Estate, Retail, Healthcare, Hotels, Schools, and others – *any* building can be benchmarked
 - Adopted by State and Local Gov. for Disclosure Laws
 - Required for Buildings Owned and Occupied by US Federal Agencies

Is 60 MPG high or low for this automobile?



Fuel Efficiency:
MPG

Is 90 kBtu/SF/YR high or low for this building?



Energy Performance
Score: **1 to 100**

- Free, secure, online energy-benchmarking tool for buildings
- Measure whole-building **actual** energy performance
- Tracks energy intensity, cost, GHG emissions
- Normalizes for weather, operating hours, occupant density, and other characteristics
- 1 – 100 score based on source energy use intensity (EUI)
- Platform ENERGY STAR building certification



Statement of Energy Performance Document Energy Performance



ENERGY STAR® Statement of Energy Performance

77 Sample Building
ENERGY STAR Score
 For Year Ending: December 31, 2012
 Date Generated: August 01, 2013

Primary Property Function: Office
 Gross Floor Area (GFA): 100,000
 Built: 2000

Property Address:
 Sample Building
 100 E Energy Blvd
 Washington, District of Columbia (DC) 20001

Property ID: 362275

Energy Consumption and Energy Use Intensity (EUI)			
Site EUI 76.9 kBtu/ft ²	Annual Energy by Fuel	4,874,200 (23%)	Natural Gas
	Electricity (kWh)	3,838,000 (47%)	Electricity
Source EUI 166.4 kBtu/ft ²	% District Use (Federal Buildings Source EUI)	46%	
	Annual Emissions (tCO ₂ e)	118	

Signature & Stamp of Verifying Professional

I, _____ (Name) certify that the information above is true and correct to the best of my knowledge.

Signature: _____ Date: _____

Licensed Professional

Professional Engineer Stamp (if applicable)

ENERGY STAR® Scorecard

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For the year ending in December 2012, this building used 166.4 kBtu/ft² as a source energy basis. The Environmental Protection Agency (EPA's) ENERGY STAR score is a 77, a measure of a building's energy efficiency as compared with similar buildings nationwide, allowing for climate and geographic variety.

1 50 75 100 ENERGY STAR

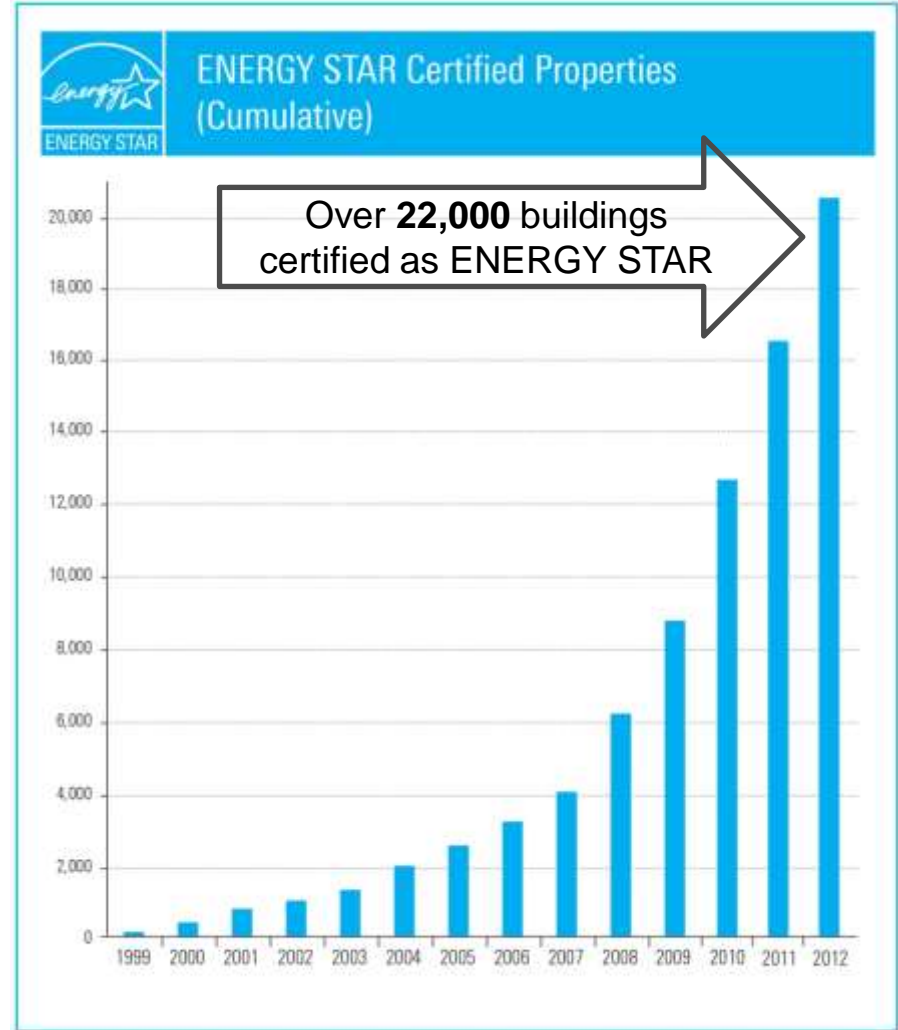
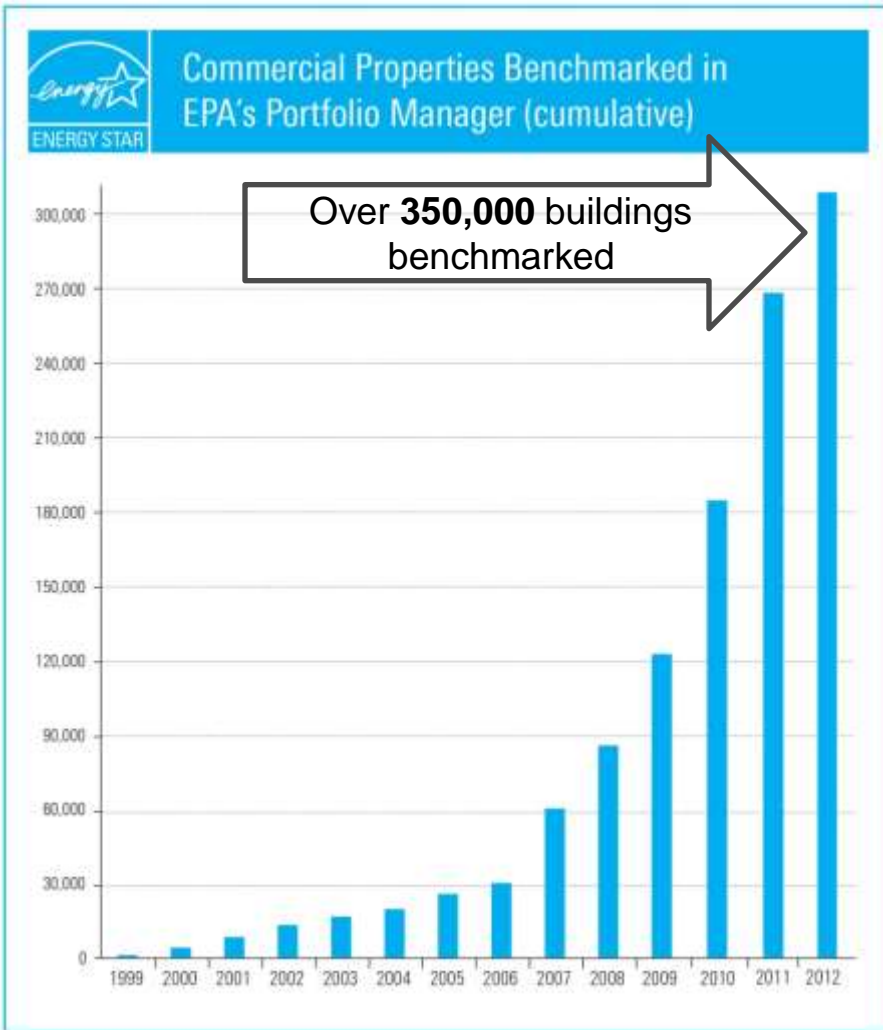
Buildings with a score of 77 or higher may qualify for EPA's ENERGY STAR.

Signature of Verifying Professional

I, _____ (Name) certify that the information regarding energy use and property use above is true and correct to the best of my knowledge.

Signature: _____ Date: _____

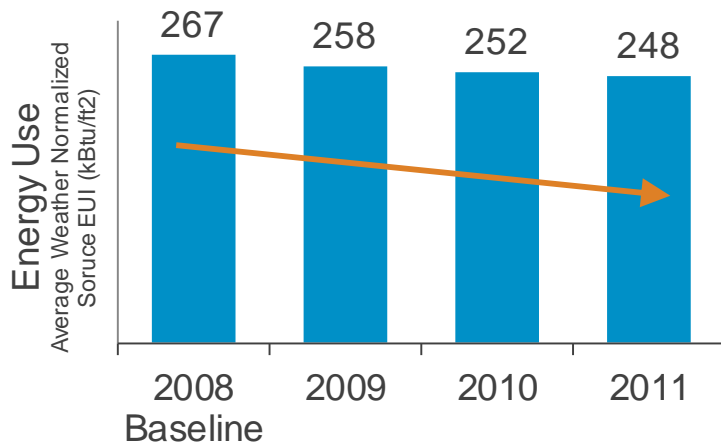
Data Trends: Activity Continues to Grow



Energy Savings and Score Trends

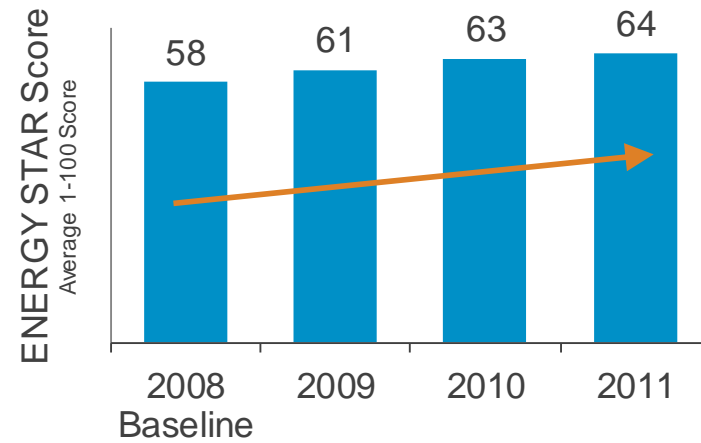


- Over 35,000 buildings entered complete energy data for 2008 through 2011 - three years of change from a 2008 baseline



7% savings

in Weather Normalized
Source EUI



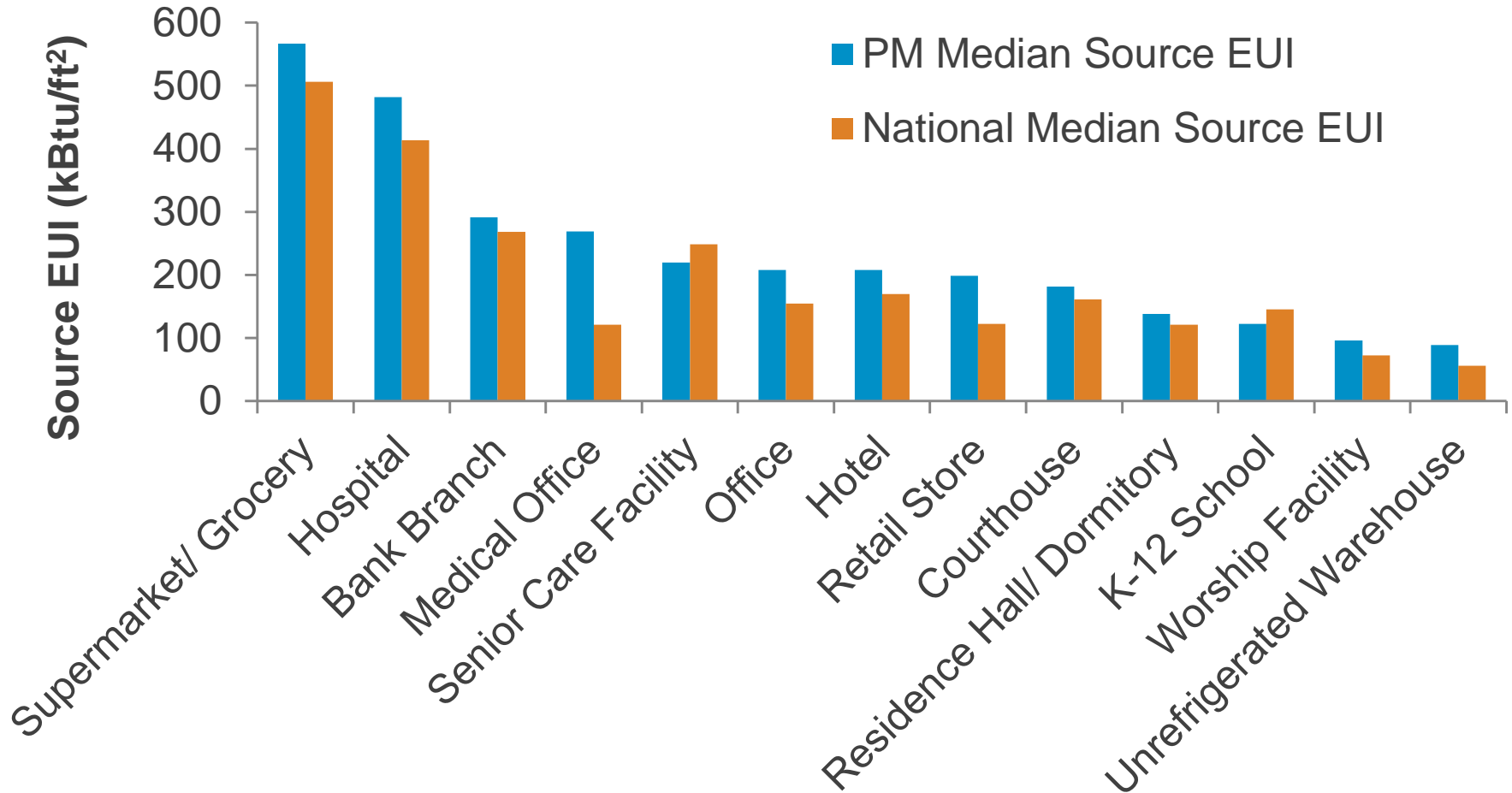
6 point increase

in ENERGY STAR score

Source: "Benchmarking and Energy Savings" report at

<http://www.energystar.gov/DataTrends>

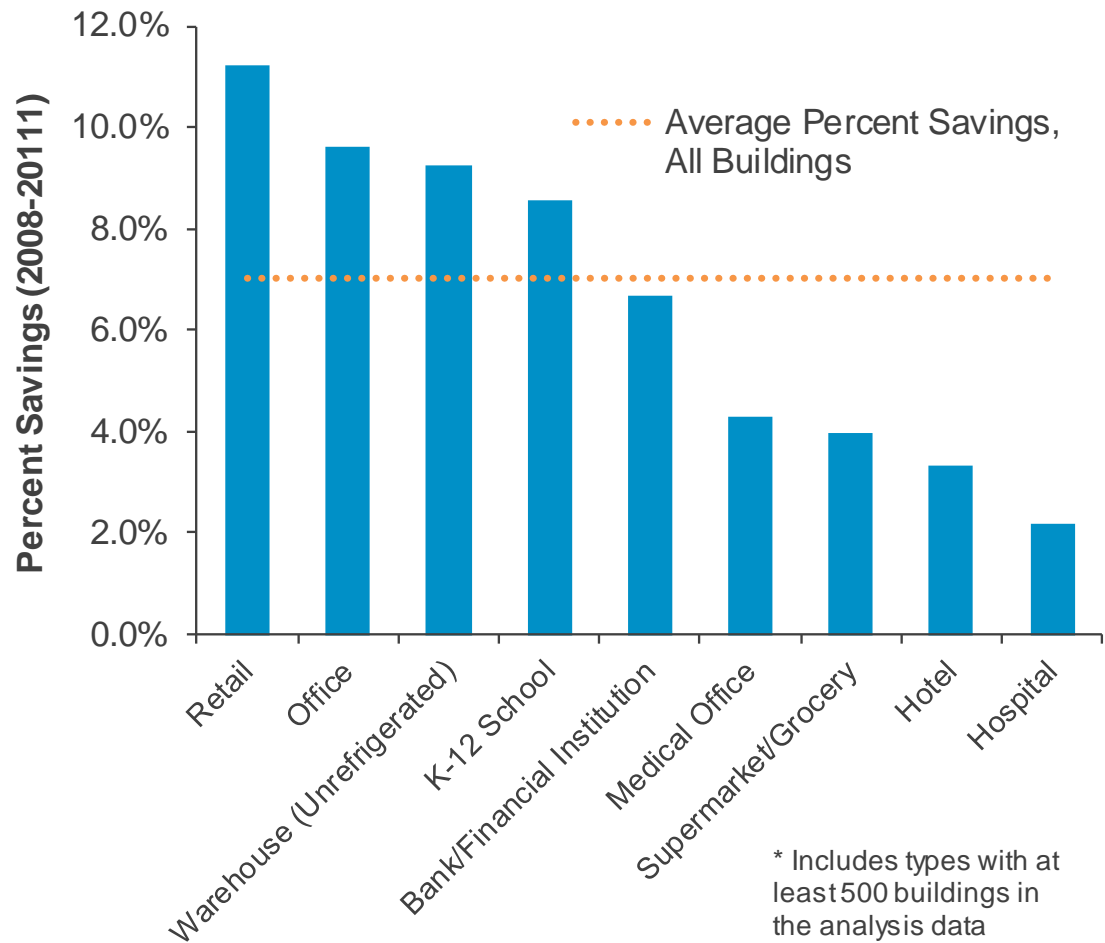
Energy Intensity by Building Type



Energy Savings Trends by Type



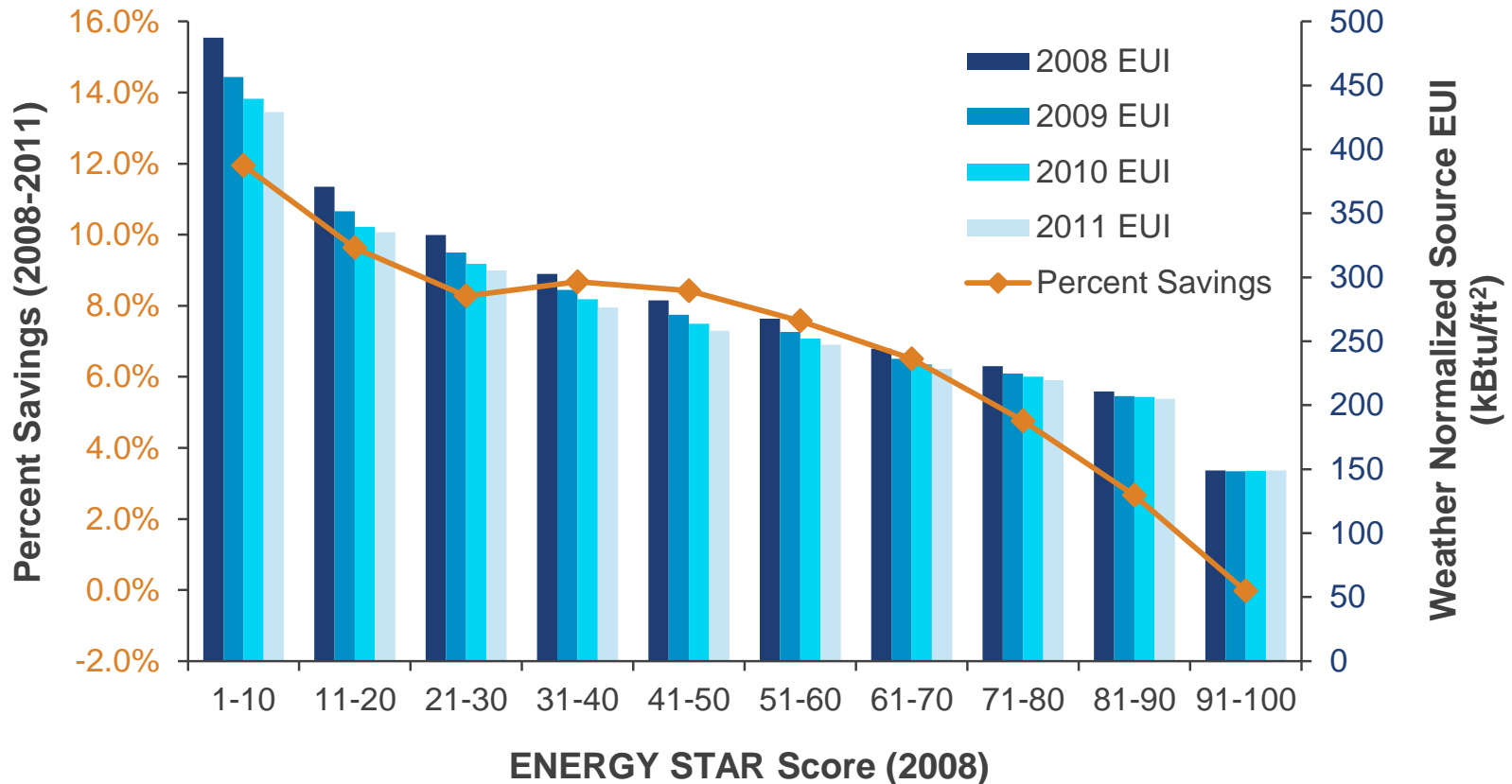
- Savings vary by Building type
- Office, Retail, and School
 - Save above average
 - Most common building types benchmarked (60% of sample)



Energy Savings Trends by Score



- Buildings starting with scores below 50 have saved more than twice the average



Benchmarking Legislation Is Gaining Momentum Nationwide

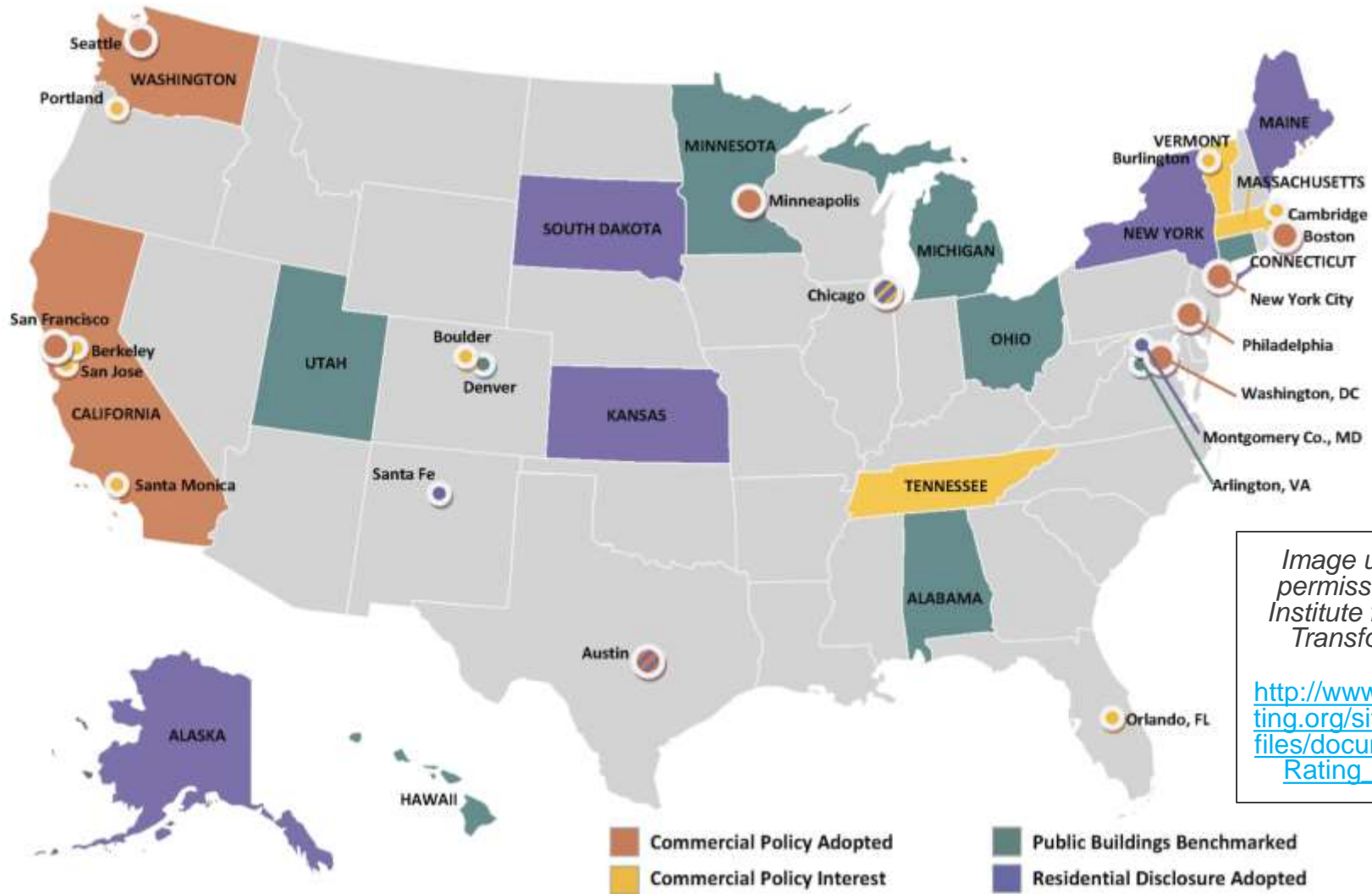


Image used with permission of the Institute for Market Transformation

http://www.buildingrating.org/sites/default/files/documents/US_Rating_Map.pdf

- Uses of Portfolio Manager - Building Level
 - Measure and Document Building Energy Performance
 - Identify Energy Improvement Opportunities
 - Set Energy Performance Improvement goals
 - Evaluate Progress
 - Document Building Improvement
 - Recognize Success - ENERGY STAR Certification

- Uses of Portfolio Manager - Program Level
 - Measure and Document Overall Program Performance
 - Stimulate Individual Portfolio Performance Improvement
 - Award Incentives based on Performance Improvement
 - Pay For Performance based on Documented Score Improvement



Contacts



THANK YOU

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