



Benchmarking with ENERGY STAR Portfolio Manager

Metropolitan Mayors Caucus
July 2024

Agenda

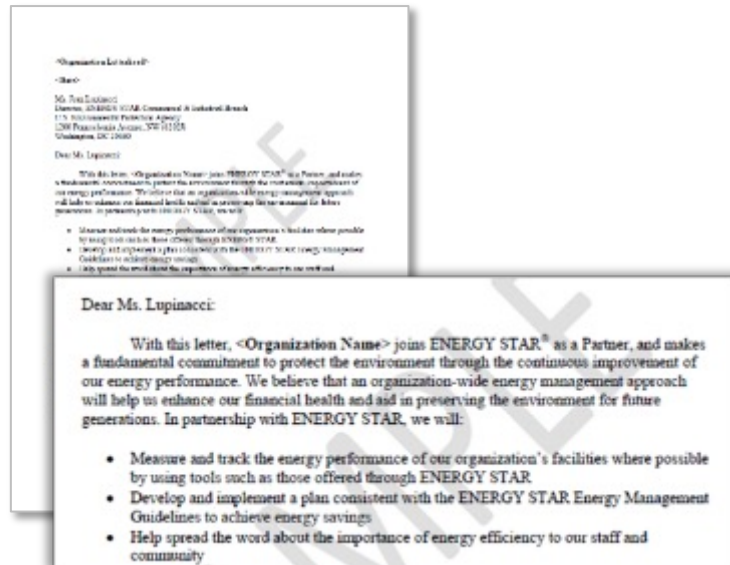
- Benchmarking with EPA's ENERGY STAR Portfolio Manager
- EPA's 1-100 ENERGY STAR Score
- Outreach and Recognition
- Benchmarking Resources



Partner with ENERGY STAR!

Get management buy-in

Align your organization with
a leading brand



energystar.gov/joinbuildings



A photograph of a modern glass skyscraper with a grid of black window frames. The glass reflects a historic building with a red-tiled roof and classical architectural details like balustrades. The sky is a clear, bright blue. A semi-transparent yellow banner is overlaid across the middle of the image, containing white text.

Benchmarking in
Portfolio Manager and the
1-100 ENERGY STAR score

ENERGY STAR for Buildings and Plants

Delivering environmental benefits and financial value through superior energy efficiency.

Benchmark and assess



Improve

Two construction workers wearing hard hats (one blue, one yellow) are shown reviewing blueprints on a construction site.

Utility Genius Rebate Finder

Bring Your GREEN TO WORK
This will save you a lot of money to save energy or make a big difference in the world as a small step.

ENERGY STAR® Cash Flow Opportunity Calculator
Know when to finance energy efficiency projects

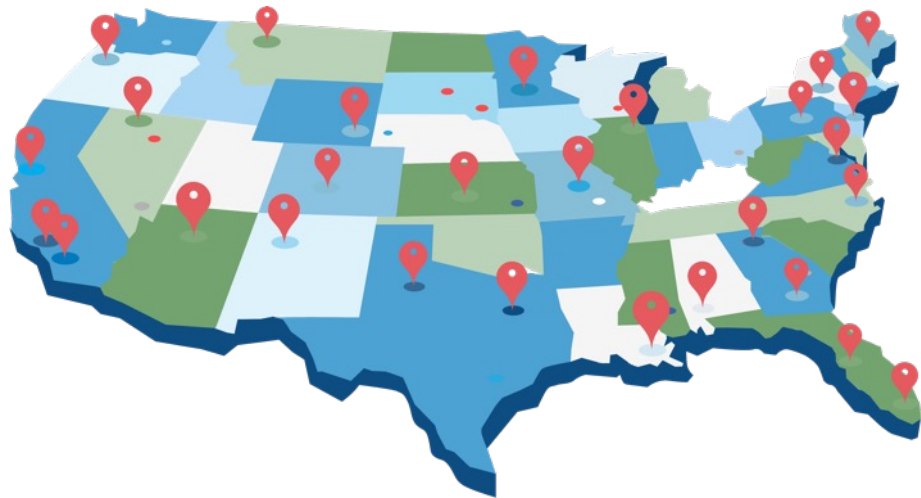
The background of this section features a stylized atomic symbol logo.

Earn recognition



Identify Underperformers Through Benchmarking

Compare your building to a national sample of similar buildings.



Compare your own buildings to each other.



ANY building can be benchmarked.



Benchmarking allows you to:

- Evaluate portfolio-wide performance
- Understand individual building performance
- Compare energy performance to national median
- Identify and address potential problems by looking at monthly trends
- Track the impact of energy, water, waste management strategies



ENERGY STAR® Portfolio Manager®



Assess energy, water and waste/materials consumption



Track changes over time



1-100 ENERGY STAR score



Apply for ENERGY STAR certification

www.energystar.gov/benchmark





- 320,000+ buildings in 2023
- Nearly 25% of U.S. floorspace
- 50+ state/local benchmarking policies
- One foreign government (Canada)

Translate simple information into dozens of performance indicators

Energy Metrics (Site and Source)

- Total Energy Use (kBtu)
- Energy Use Intensity (EUI) (kBtu/Sq. Ft.)
- Weather Normalized EUI (kBtu/Sq. Ft.)
- National Median EUI (kBtu/Sq. Ft.)
- % Difference from National Median EUI (%)

Comparisons

- Total Energy Use (kBtu)
- Energy Use Intensity (kBtu/Sq. Ft.)
- Adjusted Energy Use (%)
- GHG Emissions (MtCO₂e)
- Available against baseline or between any two periods.

Financial

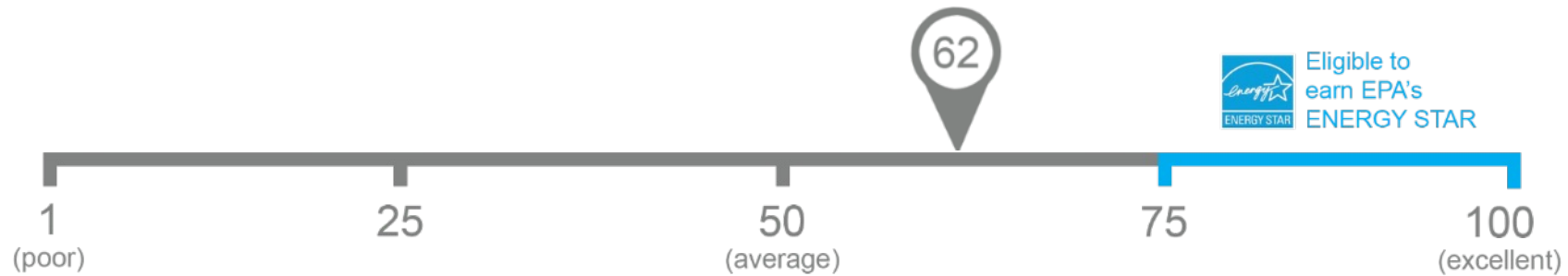
- Annual Energy Cost
- Total Energy Cost per Sq. Ft.
- Cumulative Investment in Facility Upgrades
- Cumulative Investment per Sq. Ft.

Renewable Energy

- Total On-Site Electric Generation (kWh)
- Percent of Electricity from On-Site Renewable (%)
- Total Renewable Energy Certificates Purchased and Sold
- Total Avoided Greenhouse Gas Emissions from RECs (MtCO₂e)



The 1-100 ENERGY STAR Score



One simple number
understood by ALL stakeholders.



Property types with 1-100 ENERGY STAR scores



Bank Branch



Barracks*



Convenience
Stores



Courthouses



Data Centers



Distribution
Centers



Financial Offices



Hospitals



Hotels



K-12 Schools



Medical Offices



Multifamily
Housing



Office
Buildings



Residence
Hall/Dormitory*



Retail Stores



Senior Living
Communities



Single-Family
Homes*



Supermarkets



Vehicle
Dealerships



Warehouses



Wastewater
Treatment
Plants*



Wholesale
club/
Supercenters



Worship
Facilities

* Building types with an asterisk are not eligible for ENERGY STAR certification.

MyPortfolio | [Sharing](#) | [Reporting](#) | [Recognition](#) | [Admin](#) | [Processing](#)


Properties (410)


[Add a Property](#)


Source EUI Trend (kBtu/ft²)




Manage Portfolio

 [Transfer ownership](#) of a property that you manage to another Portfolio Manager user.

 [Upload and/or update multiple properties](#) at once using an Excel spreadsheet if you are a pro. This can be done to create new properties, add use details, create meters and add meter consumption data.

 [Download your entire portfolio to Excel](#) or create a [custom download](#).

 [Set a portfolio baseline and/or target to](#)

Dashboard (Metrics current as of 07/20/2017 10:24 AM EDT) 

EPA Sample Buildings_Demo

Energy Highlights

[Refresh Metrics](#)

[Add/Edit/Delete Groups](#)

[Add/Edit/Delete Views](#)

Name	Energy Current Date	ENERGY STAR Score	Site EUI (kBtu/ft ²)	Source EUI (kBtu/ft ²)
EPA Sample K-12 School 5711767	12/31/2016	79	53.1	108.9
EPA Sample Library 5711765	12/31/2016	NA	100.1	234.6
EPA Sample Mixed Use 5711741	12/31/2016	51	98.0	251.7
EPA Sample Office 5837710	12/31/2016	1	227.2	652.4
EPA Sample Office_DefaultValues 5912952	12/31/2016	46	104.4	268.8
EPA Sample Office_Vacant Demo 5913030	12/31/2016	22	148.8	383.1
EPA Sample University 5711768	12/31/2016	NA	74.4	172.8
Test Campus 3611609	08/31/2007	NA	188.4	417.4

[First](#) [Previous](#) Page 1 of 5 [Next](#) [Last](#) 100

View 1 - 100 of 9

Properties (410) (Count includes 44 child properties. Expand carets to view.)  [Download Data Table](#)

Analyze and Share Progress and Performance

The screenshot displays the 'Reporting' section of the Energy Star interface. At the top, there are navigation tabs: 'MyPortfolio', 'Sharing', 'Reporting', and 'Recognition'. Below the tabs, the 'Charts & Graphs' section features a large purple graphic with a circular icon containing a sun, clouds, and a building. Below this graphic is the text: 'Weather Normalized Source EUI' and 'How much total primary fuel would be required by my properties, under average weather conditions?'. To the right, the 'ENERGY STAR Performance Documents' section lists several documents: 'Statement of Energy Performance (SEP)', 'Statement of Energy Design Intent (SEDI)', 'Data Verification Checklist', 'Progress & Goals Report', 'ENERGY STAR Scorecard', and 'Water Scorecard'. Below these sections, there are two tabs: 'My Custom Reports' and 'ENERGY STAR Reports'. A 'Create a New Template' button is located to the right of the 'ENERGY STAR Reports' tab. At the bottom, a table lists various reports with columns for Name, Status, and Action.

Name	Status	Action
Partner of the Year Report	Last Modified: 1/27/2020 1:42 PM	I want to...
ENERGY STAR Certification Status	Last Modified: 1/27/2020 10:10 AM	I want to...
Emissions Performance	Last Modified: 1/26/2020 12:01 PM	I want to...
Water Performance	Last Modified: 1/24/2020 11:36 AM	I want to...

Choose from Pre-set Chart & Graph Options

View and Use Custom Report Templates

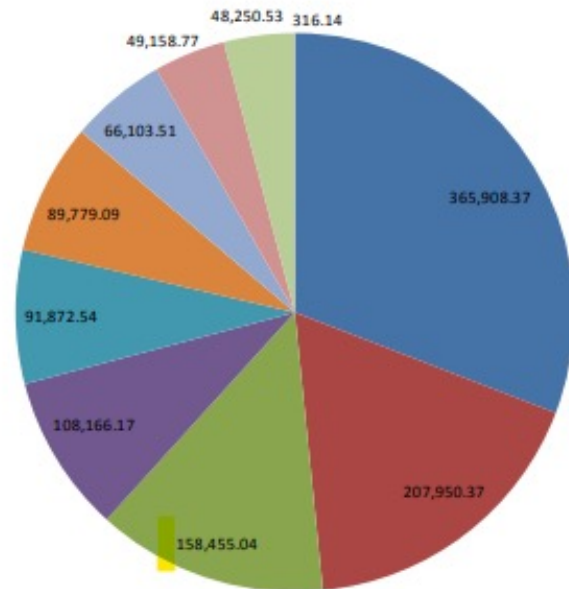
View and Use Standard Reports

View and Download Performance Documents

Generate Custom Report Templates

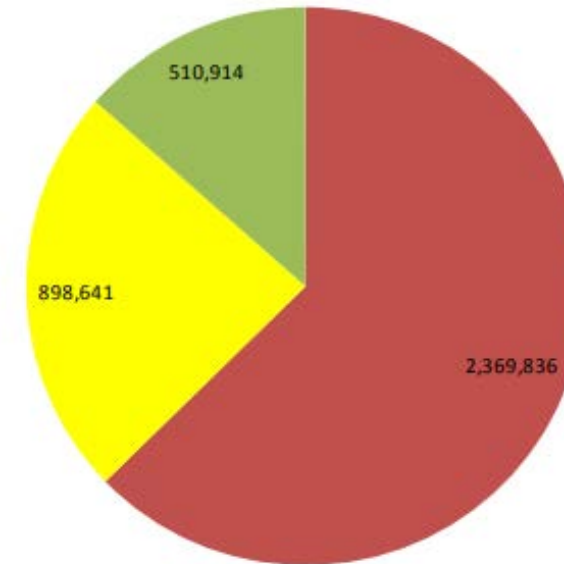
Example: Greenworks Philadelphia Municipal Benchmarking Report

**MUNICIPAL ENERGY USAGE BY SECTOR
(mmBtus)**



- Prisons
- Museums
- Other Facilities
- Maintenance and Warehouses
- Police
- Offices and Courts
- Recreation Facilities
- Libraries
- Fire Stations
- Medical Offices

FLOOR SPACE EFFICIENCY INDICATOR



- Underperforming National Median
- Within 15% of National Median
- Outperforming National Median

[energy-benchmarking-report-year-one.pdf \(phila.gov\)](https://www.phila.gov/energy-benchmarking-report-year-one.pdf)



Portfolio Manager Upgrade Project

- Supported by funding from the Inflation Reduction Act of 2022 to advance the goal of reducing greenhouse gas emissions from commercial and residential buildings.
- A wide variety of enhancements are being planned, including but not limited to:
 - Modernized and refreshed user interface.
 - Refrigerant tracking.
 - Expanded emissions and green power tracking functionality.
 - Ability to track building performance standard (BPS) applicability and progress toward achieving targets.
 - Spanish-language option.
- Follow EPA's progress and continue to provide your feedback at the new Portfolio Manager Upgrade Project website.

The Portfolio Manager Upgrade Project

Follow along as we give Portfolio Manager its largest update in a decade! The upgrade is a multi-year process where we'll be refreshing the user interface, enhancing current functionality, and adding brand-new features. When it's done, you'll be able to do more than ever, easier than ever.



This upgrade is supported by funding from the Inflation Reduction Act of 2022 to advance the goal of reducing greenhouse gas emissions from commercial and residential buildings.



Tell Us What You Think!

Tell us what you'd like to see in the new Portfolio Manager tool.

[Submit a Comment](#)

www.energystar.gov/portfoliomanagerupgrade





Outreach and Recognition Opportunities

ENERGY STAR Recognition



Launch your own energy or water competition!

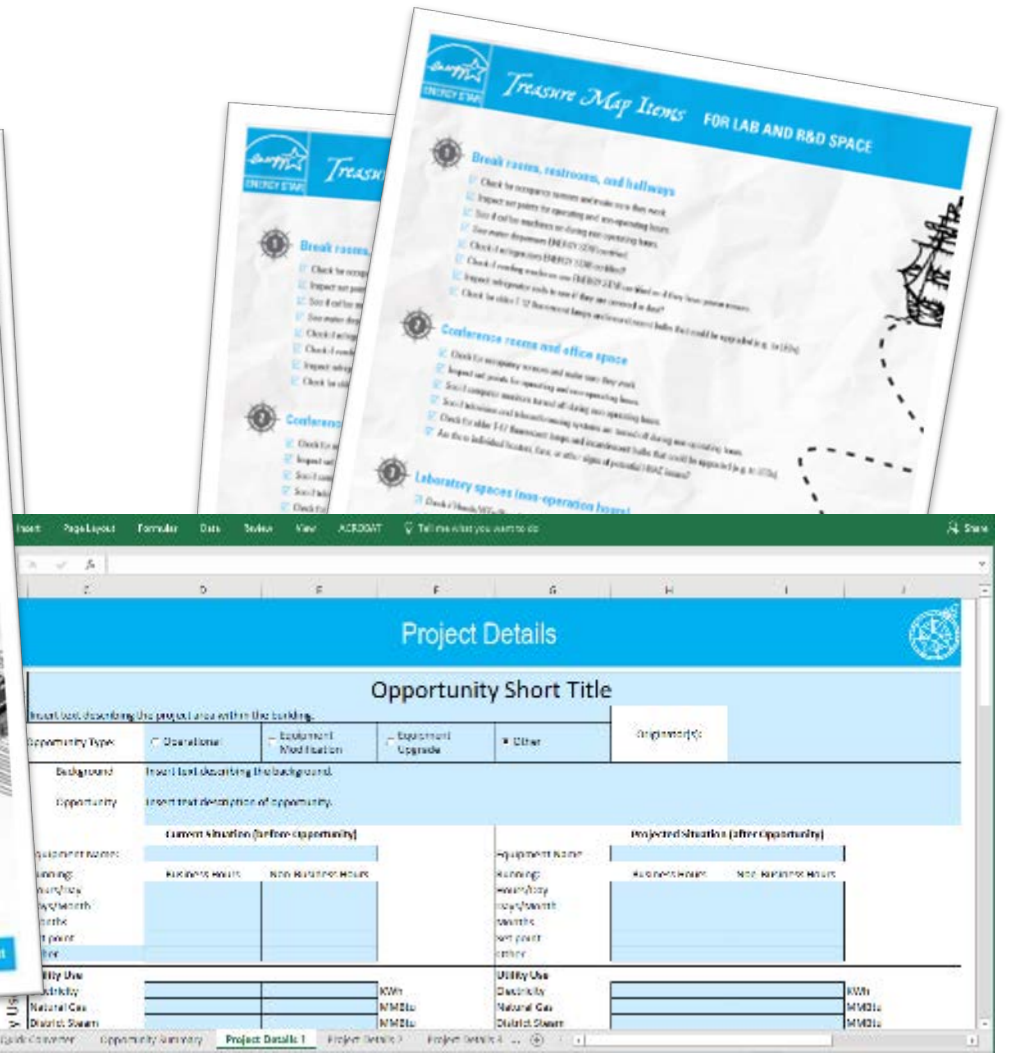
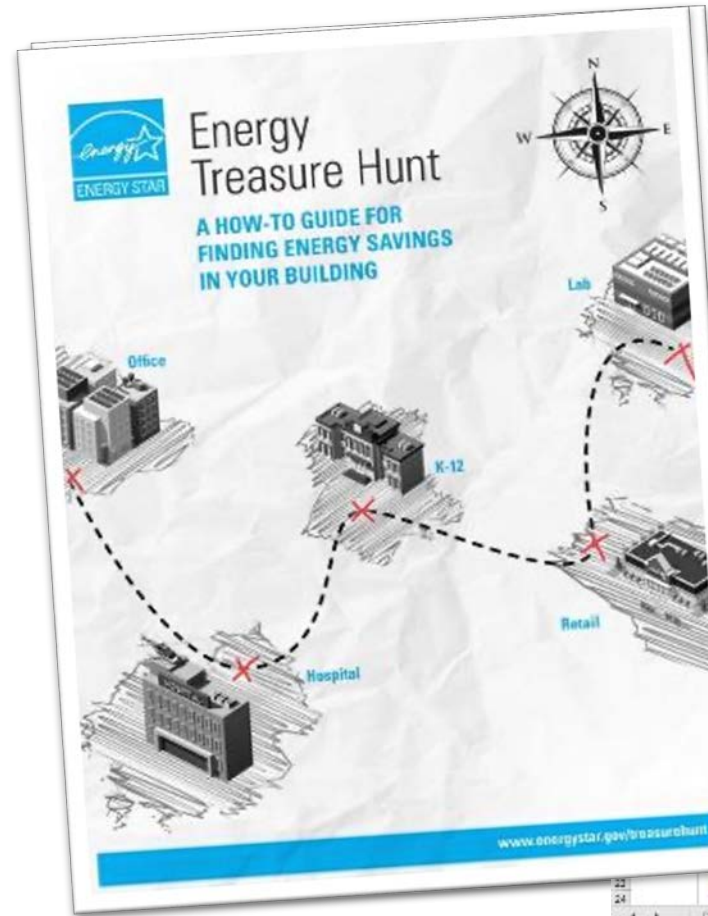


Step-by-step guidance on how to:

1. Set Goals
2. Define the Playing Field
3. Dedicate Resources
4. Recognize Participants
5. Keep Score
6. Plan the Launch
7. Get the Word Out

www.energystar.gov/competitionguide

Energy Treasure Hunt Kit



www.energystar.gov/TreasureHunt



Coming soon! ENERGY STAR NextGen

- New EPA ENERGY STAR recognition opportunity with the following objectives:
 - Recognize efficient buildings on the path to zero carbon emissions
 - Strive to keep it simple
 - Leverage foundation of ENERGY STAR and Portfolio Manager
 - Encourage the key actions building owners can take today:
 - Achieve top energy performance.
 - Generate/procure renewable energy.
 - Reduce onsite emissions.
- Target launch Q4 2024/Q1 2025

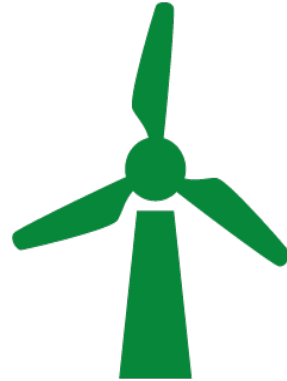


ENERGY STAR NextGen Final Criteria



Efficiency

ENERGY STAR
certification



Renewable Energy

30% of energy from
renewable source(s)



Onsite Emissions

Meet target for onsite
GHG emissions

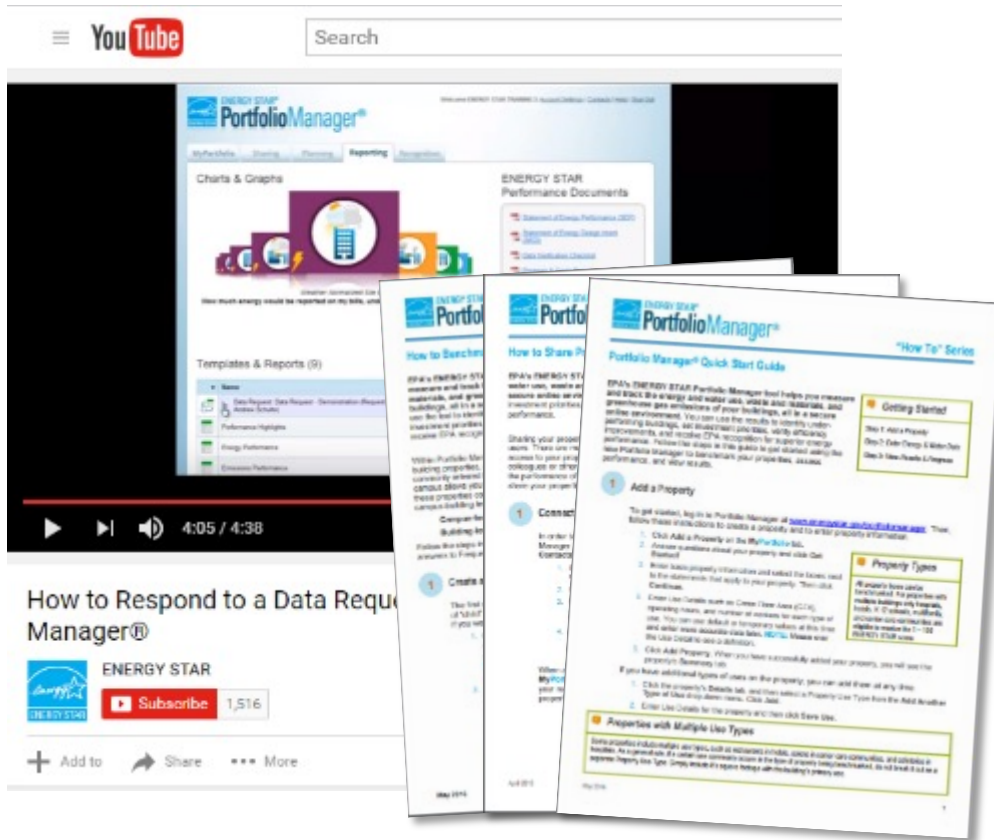
www.energystar.gov/nextgenbuildings





Benchmarking Resources

EPA's Portfolio Manager Training



- Weekly live webinars
- 3-7 minute training videos on YouTube
- Step-by-step training guides, FAQs, and technical reference documents

ENERGY STAR Help Desk

energystar.gov/buildingshelp

The screenshot shows the ENERGY STAR Help Desk website. At the top left is the ENERGY STAR logo. To the right are navigation links for 'ABOUT' and 'FOR PARTNERS', and a search bar with a magnifying glass icon. Below these are category links: 'Find Products', 'Save at Home', 'New Homes', 'Commercial Buildings', and 'Industrial Plants'. A large banner image of a modern building with a search bar overlay is in the center. Below the banner are 'HOME' and 'CONTACT US' links. The main content area features a 'WELCOME!' heading with the tagline 'A place where you can easily find solutions and ask questions'. On the left, a 'Topics' section lists various categories with expandable arrows. On the right, a 'TRENDING ARTICLES' section lists several articles. At the bottom right is a 'CONTACT SUPPORT' button.

ENERGY STAR

ABOUT FOR PARTNERS SEARCH

[Find Products](#) [Save at Home](#) [New Homes](#) [Commercial Buildings](#) [Industrial Plants](#)

Search... SEARCH

HOME CONTACT US

WELCOME!

A place where you can easily find solutions and ask questions

Topics

- ✓ Portfolio Manager FAQs
 - > Federal, State & Local Requirements
 - > Account Basics
 - > ENERGY STAR Certification
 - > Metrics (Score, EUI, Etc)
 - > Meters
 - > Property Information
 - > Property Types
 - > Web Services
 - > Water And Waste Benchmarking

TRENDING ARTICLES


- How do I Copy and Paste Data into my Meter?
- Standard IDs in Portfolio Manager
- What should I include in my GFA?
- Contacts for state/local compliance ordinances
- List of Utilities offering Web Services

CONTACT SUPPORT

ENERGY STAR



Find Utilities that Provide Benchmarking Data

**FIND UTILITIES THAT PROVIDE ENERGY DATA FOR BENCHMARKING**

Click on the map or search to quickly determine if your utility provides the energy data you need to benchmark in ENERGY STAR® Portfolio Manager®

Please enter your zip code below to show coverage in your area:

Utility Name: Puget Sound Energy
Fuel Type: Electric, Gas
Data Type : Web Services
Aggregate Whole-Building Data : Yes(5)
Multifamily Included : Yes
Contact Info:
Email: MyData@pse.com
Web Address: Click [here](#) for more information.

Utility Name: Seattle City Light
Fuel Type: Electric
Data Type : Web Services
Aggregate Whole-Building Data : Yes(2)
Multifamily Included : Yes
Contact Info:
Email: sci_portfolio_manager@seattle.gov
Web Address: Click [here](#) for more information.

380 Providers Exchange Data with Portfolio Manager



Two Rebate Finders for Commercial Buildings

Find Rebates on Efficient Commercial Building Equipment

Start your search in the ENERGY STAR rebate finder. If you can't find what you're looking for, the Utility Genius rebate finder contains additional types of commercial equipment in categories where ENERGY STAR certification is not available.



ENERGY STAR
Rebate Finder

Search for rebates on products in all 85 ENERGY STAR product categories including:

- Appliances
- Consumer electronics
- Commercial food service
- Data center equipment
- Lighting (mostly residential)
- Pool pumps
- Residential and light commercial HVAC
- Smart thermostats
- Water heating

[ENERGY STAR Rebate Finder](#)



Utility Genius
Rebate Finder

Search for rebates on commercial building equipment within product categories where ENERGY STAR certification is not available, including:

- Commercial HVAC equipment
- Commercial lighting
- Commercial building automation

[Utility Genius Rebate Finder](#)

energystar.gov/CommercialRebates



More Info

Leslie Cook

ENERGY STAR Buildings Branch

U.S. Environmental Protection Agency

cook.leslie@epa.gov

202-343-9174

Buildings Homepage - www.energystar.gov/buildings

Portfolio Manager - www.energystar.gov/benchmark

Training - www.energystar.gov/buildingstraining

Help - www.energystar.gov/buildingshelp

