This document provides an at-a-glance summary of the latest national ENERGY STAR metrics to help you, our partners, see the impact of your efforts. Specifically, the Snapshot summarizes national as well as state and local trends in energy and water benchmarking of commercial and industrial properties. It also provides information about ENERGY STAR certified commercial and industrial properties, and commercial building designs.
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Executive Summary

The ENERGY STAR Commercial and Industrial Buildings program continued to grow through 2013. As of the end of 2013, the program reports that more than:

- 45,000 active Portfolio Manager accounts have benchmarked energy or water.
- 325,000 buildings have benchmarked energy in Portfolio Manager, equivalent to more than 30 billion square feet.
- 70,000 buildings have benchmarked water consumption in Portfolio Manager.
- 90,000 buildings have benchmarked energy performance in Portfolio Manager using metrics other than the ENERGY STAR 1-100 score. These buildings account for more than 6.5 billion square feet.
- 23,000 commercial buildings and industrial plants, encompassing more than 3.4 billion square feet, have earned the ENERGY STAR.
- 200 plants have achieved the ENERGY STAR Challenge for Industry.
- 550 building designs have earned Designed to Earn ENERGY STAR.
- 3,000 buildings have participated in the annual EPA National Building Competition, saving 900 million kBtu and more than $20 million.
National Benchmarking

Organizations across the nation are benchmarking building energy and water consumption using Portfolio Manager. More than 45,000 accounts track building energy use, and more than 20,000 accounts track building water consumption.

These accounts collectively hold more than 325,000 buildings and more than 30 billion square feet of space for which energy and water is tracked (Figure 1). While new buildings continue to access the tool each year, the growth in square footage lags behind that for buildings, indicating that many smaller buildings have started using the tool in the past few years. Since historically building types with typically large floor area, such as offices, K-12 schools, retail stores and hospitals, have benchmarked energy and water use in Portfolio Manager, this trend suggests that ENERGY STAR may have reached a benchmarking saturation point among very large buildings.

Of the more than 80 building types benchmarked in Portfolio Manager, the building types representing the greatest number of benchmarked buildings include office, K-12 school, multifamily housing, and retail (see Figure 2a). However, when assessing square footage benchmarked in Portfolio Manager, a slightly different group of building types emerges: office leads for cumulative benchmarked square footage, followed by retail store, K-12 school, bank branch, and multifamily housing (Figure 2b). Taken together, these charts tell a story about building size. For example, while retail stores make up 17% of all benchmarked buildings, they make up 8% of the benchmarked square footage. This indicates that the retail stores benchmarked in Portfolio Manager are small compared to offices, for example, which make up roughly the same number of benchmarked buildings but represent more than 25% of the total benchmarked square footage.

Detailed information about buildings benchmarked by state, Office of Management and Budget-defined core-based statistical area (CBSA), and building type is provided in Appendices A, B, and C.

Figure 1. Cumulative buildings and square footage benchmarked in Portfolio Manager

Figure 2a. Cumulative buildings benchmarked in Portfolio Manager by type

Figure 2b. Cumulative square footage benchmarked in Portfolio Manager by type
State & Local Benchmarking

Governments at all levels play an important role in the ENERGY STAR program. Many are taking important steps to protect the environment and reduce energy and water use. State and local governments across the country are adopting policies that leverage ENERGY STAR tools to reduce energy use in commercial buildings, through both voluntary campaigns and required policy measures.

Figure 3 shows that every state in the nation is home to buildings for which energy or water use has been benchmarked in Portfolio Manager.

In Figure 4, we see that the buildings benchmarked in some cities are much larger in certain locales than others. For example, roughly the same number of buildings are benchmarked in both Seattle and Washington, DC. However, the buildings in Washington, DC total more square footage than those in Seattle. This suggests that the average building benchmarking in Washington, DC is larger than the average building benchmarking in Seattle.

More information about mandatory and voluntary state and local programs that leverage ENERGY STAR can be found at http://www.energystar.gov/government.

Detailed benchmarking data, by state and CBSA, is provided in Appendices A and B.
ENERGY STAR Certification for Buildings

To be eligible for ENERGY STAR certification, a building must earn an ENERGY STAR score of 75 or higher, indicating that it performs better than at least 75 percent of similar buildings nationwide. These buildings typically use about 35 percent less energy than average buildings. Since 1999 ENERGY STAR has certified nearly 23,000 buildings and more than 3.4 billion square feet of space (Figure 5).

The following building types are eligible to earn the ENERGY STAR: bank, courthouse, data center, distribution center, financial office, hospital, hotel, K-12 school, non-refrigerated warehouse, office, refrigerated warehouse, retail store, senior care community, supermarket/grocery, worship facility, and wholesale club/supercenter.

Figure 5. Cumulative ENERGY STAR certified buildings and square footage
ENERGY STAR Certification for Buildings

Figures 6a and 6b summarize ENERGY STAR certified buildings by type and illustrate that office, K-12 school, retail, and supermarket make up the majority of ENERGY STAR certified buildings.

These figures also help to show the relative size of certified buildings. For example, while hospitals are the ninth most frequently certified building type, they come in fourth in terms of certified square footage.

Detailed ENERGY STAR certification data is provided by state, CBSA, and building type in Appendices D, E, and F.

Figure 6a. Cumulative ENERGY STAR certified buildings by type

Figure 6b. Cumulative ENERGY STAR certified square footage by type (millions)
ENERGY STAR Certification for Plants

More than 125 industrial facilities earned ENERGY STAR certification through 2013, indicating superior energy efficiency by plant type. More than ten types of industrial plants can earn ENERGY STAR certification, including cement manufacturing, wet corn milling, cookies & crackers, juice, potato products, flat glass, container glass, auto assembly, petroleum industry, pharmaceuticals, pulp mill, and integrated mill. A break out of certified plants by type is provided in Figure 7.

Detailed industrial plant certification data is provided in Appendices G and H. For more information, visit http://www.energystar.gov/epis.

Designed to Earn the ENERGY STAR

A design project that achieves Designed to Earn the ENERGY STAR meets strict EPA criteria for estimated energy performance. It signifies that, once built, the building is poised to achieve top energy performance, and earn ENERGY STAR certification.

The majority of design projects fall in the K-12, office, supermarket, retail, and residence hall/dormitory building categories (Figure 8). However, there are a number of other building types that have earned this distinction.

Detailed data is provided in Appendices I and J. For more information, visit: http://www.energystar.gov/buildings/service-providers/design/why-you-should-design-earn-energy-star.
ENERGY STAR Challenge for Industry

The ENERGY STAR Challenge for Industry is a tool designed to help energy managers and industrial sites improve energy performance and set goals. Industrial sites participate by committing to the pre-established goal of reducing energy intensity by 10 percent within 5 years or less.

In 2013, more than 40 sites achieved the challenge and reported an average energy use intensity reduction of 20%. Since 2010, when the Challenge was launched, more than 200 industrial facilities have achieved the Challenge, reducing emissions by more than 10 million metric tons.

For more information, visit http://www.energystar.gov/industrychallenge.

The EPA National Building Competition

In 2013, EPA hosted its fourth season of the ENERGY STAR National Building Competition to see which U.S. building could cut its energy use the most. More than 3,200 buildings from all 50 states, two U.S. territories, and the District of Columbia battled the scale and each other. Together they saved more than $20 million, and reduced greenhouse gas (GHG) emissions by more than 130,000 MtCO2e. The average cost and GHG emissions savings per building that reduced energy use was more than $21,000 and 121 MtCO2e.

The overall winner is the building that demonstrates the largest year-over-year percentage reduction in energy “weight”, defined as energy use adjusted for weather and the size of the building. In 2013, the winner was Claiborne Elementary School in Baton Rouge, La. which achieved 46% energy savings in just 12 months. The top 10 finishers in 2013 all slimmed down by 30 percent or more.

EPA also provides recognition for energy savings of 20% or more. Over the years, dozens of buildings have reduced energy use by more than 20% in just 12 months (Figure 10)! All winners must have their data verified by a Professional Engineer or Licensed architect to earn ENERGY STAR recognition.

Read about the successful strategies competitors have used to win during each competition year, and get their best energy-saving advice at http://www.energystar.gov/BattleoftheBuildings.
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## Appendix A. Benchmarked Buildings and Square Footage by State

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## Appendix B. Benchmarked Buildings and Square Footage by CBSA

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<td>1,065</td>
<td>45,914,299</td>
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<tr>
<td>Greenville-Mauldin-Easley SC</td>
<td>578</td>
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<td>Providence-New Bedford-Fall River RI-MA</td>
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<tr>
<td>Harrisburg-Carlisle PA</td>
<td>844</td>
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**Note:** The cumulative benchmarked through 2013 data is sourced from the EPA's ENERGY STAR program, which tracks energy efficiency across various cities in the United States.
### Appendix B. Benchmarked Buildings and Square Footage by CBSA

<table>
<thead>
<tr>
<th>CBSA</th>
<th>Buildings</th>
<th>Cumulative benchmarked through 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provo-Orem UT</td>
<td>306</td>
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<td>Raleigh-Cary NC</td>
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<td>Richmond VA</td>
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<td>Riverside-San Bernardino-Ontario CA</td>
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<tr>
<td>Rochester NY</td>
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<td>Sacramento--Arden-Arcade--Roseville CA</td>
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<td>San Antonio-New Braunfels TX</td>
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<td>146,055,774</td>
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<td>San Diego-Carlsbad-San Marcos CA</td>
<td>4,755</td>
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<tr>
<td>San Francisco-Oakland-Fremont CA</td>
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<tr>
<td>San Jose-Sunnyvale-Santa Clara CA</td>
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<td>Youngstown-Warren-Boardman OH-PA</td>
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## Appendix C. Benchmarked Buildings and Square Footage by Type

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<td>Multifamily Housing</td>
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<table>
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<tr>
<th>Building Type</th>
<th>Cumulative benchmarked through 2013</th>
<th>Buildings</th>
<th>Square Footage</th>
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<td>Other - Services</td>
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<td>Race Track</td>
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<td>Refrigerated Warehouse</td>
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<td>Transportation Terminal/Station</td>
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### Appendix C. Benchmarked Buildings and Square Footage by Type

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<thead>
<tr>
<th>Building Type</th>
<th>Buildings</th>
<th>Square Footage</th>
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<tr>
<td>Urgent Care/Clinic/Other Outpatient</td>
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<td>Veterinary Office</td>
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<td>Vocational School</td>
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<td>Wholesale Club/Supercenter</td>
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<td>Worship Facility</td>
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<td>Zoo</td>
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### Appendix D. ENERGY STAR Certified Buildings and Square Footage by State

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# Appendix E. ENERGY STAR Certified Buildings and Square Footage by CBSA

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## Appendix E. ENERGY STAR Certified Buildings and Square Footage by CBSA

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## Appendix F. ENERGY STAR Certified Buildings and Square Footage by Type

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### Appendix G. ENERGY STAR Certified Plants by State

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### Appendix H. ENERGY STAR Certified Plants by Type

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<td>Petroleum Refining</td>
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<td>Cement Manufacturing</td>
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### Appendix I. Designed to Earn the ENERGY STAR Projects by State

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### Appendix J. Designed to Earn the ENERGY STAR Projects by Type

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