



# ENERGY STAR® 2015 Snapshot

Measuring Progress in the Commercial and Industrial Buildings Sector

August 2016



An at-a-glance summary of the latest national, state, and local trends in commercial and industrial property energy benchmarking, including ENERGY STAR metrics and certification trends.

## ENERGY STAR Year in Review

I am pleased to share with you the 2015 ENERGY STAR Snapshot, capturing the latest trends in commercial building and industrial plant energy efficiency. The Snapshot offers a unique peek into how businesses, organizations, and governments are cutting energy waste and curbing carbon pollution under the umbrella of EPA's ENERGY STAR program.

The pages that follow catalogue the market's embrace of EPA's ENERGY STAR Portfolio Manager as the industry standard for benchmarking, tracking and reporting energy savings. In fact, the market has relied on Portfolio Manager to benchmark 40 billion square feet of commercial floor space across 450,000 buildings, closing in on half of commercial floor space in the U.S.

The numbers are impressive, but it is the trends and successful strategies behind them that I ask you to consider as you review this Snapshot:

- School districts are leading change. For the first time, schools outnumbered all other building types certified as ENERGY STAR as increasing numbers of K-12 districts commit to organization-wide energy management, particularly in such places as Odgen UT, Honolulu HI, Augusta GA, and Akron OH (page 3).
- Companies with large portfolios are leading the way. Retail chains with large portfolios are driving this momentum, and retail stores are now the most-benchmarked facility type (page 2).
- Local and state government policies are driving activity. As more jurisdictions institute mandates and voluntary programs, benchmarking activity is growing. We're seeing a lot of activity in Idaho, Illinois, Maryland, Massachusetts, New Mexico, and Rhode Island (page 3).
- Energy data access is essential for instituting energy management and improvement. Service providers and utilities contributed to sixty percent of the benchmarking activity in 2015 through electronic data exchange.
- Water tracking is growing in importance. Buildings across 28,000 Portfolio Manager accounts are tracking water across five billion square feet of floor space.
- Campaigns encouraging voluntary actions result in significant energy reductions. Competitors in EPA-sponsored challenges have demonstrated that a reduction in energy and water intensity of more than 35 percent in just one year is possible.

As I celebrate the great progress evident in these pages, I also recognize that there is more to be done. Our coordinated efforts will be key to reaching the millions of buildings that make up the other half of the market—many owned by small businesses in hard-to-reach places—that are not yet benchmarking. I have no doubt that together, we can reach them.

Jean Lupinacci  
Chief, ENERGY STAR Commercial & Industrial Buildings  
U.S. Environmental Protection Agency

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## National Benchmarking

Organizations across the nation are benchmarking building energy and water consumption using Portfolio Manager. More than 60,000 accounts track building energy use, and more than 28,000 accounts track building water consumption.

These accounts collectively hold more than 450,000 buildings and more than 40 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 rate of growth in square footage varies as compared to growth in building count. Historically building types with typically large floor area, such as offices, K-12 schools, retail stores and hospitals, have benchmarked energy and water use, so this trend suggests that ENERGY STAR may have reached a certain benchmarking saturation point among very large buildings, and is now attracting smaller buildings, as well.

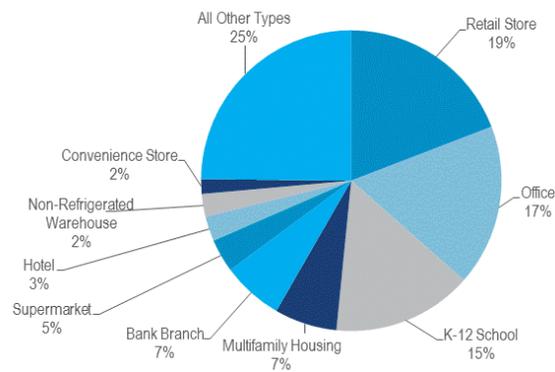
Of the more than 80 building types benchmarked in Portfolio Manager, the building types representing the greatest number of benchmarked buildings include retail, office, K-12 school, bank, and multifamily housing (see Figure 2a). However, when assessing square footage benchmarked in Portfolio Manager, a slightly different group emerges: office leads for cumulative benchmarked square footage, followed by K-12, multifamily housing, retail, and hospital (Figure 2b). Taken together, these charts tell a story about building size. For example, while retail stores make up 19% of all benchmarked buildings, they only 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 28% of the total benchmarked square footage.

Detailed information about buildings benchmarked by state, metropolitan area (as defined by Office of Management and Budget's Core-Based Statistical Area or CBSA), and building type is provided in Appendices A, B, and C.

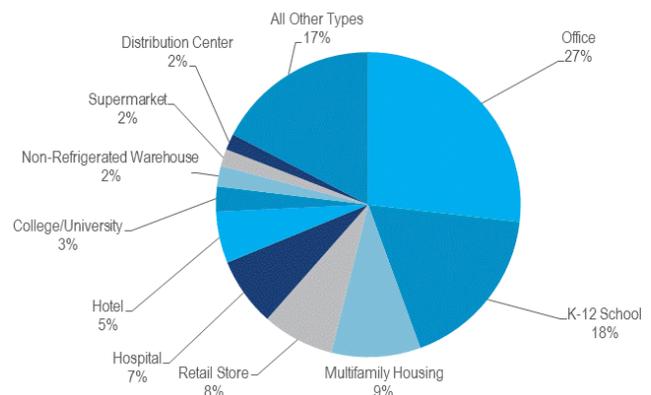
**Figure 1.** Cumulative buildings and square footage benchmarked in Portfolio Manager



**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 crucial 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.

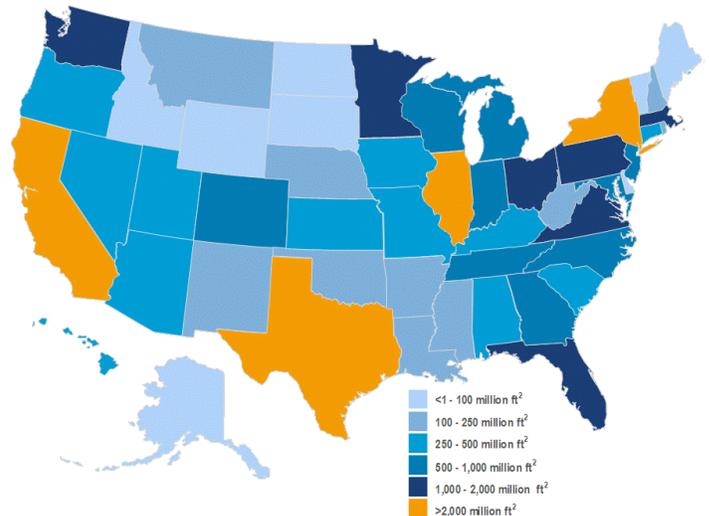
Figure 3a below shows that every state in the nation is home to buildings for which energy or water use has been benchmarked in Portfolio Manager. Figure 3b highlights the states with the most growth in benchmarking activity between 2014 and 2015. Interestingly, even states with high levels of cumulative benchmarking activity, like Illinois and Texas, also show high rates of benchmarking growth, suggesting benchmarking momentum within the state.

Figure 4 provides a similar chart for city benchmarking activity and illustrates the difference in benchmarking and square footage growth in different locales. For example, while the growth in buildings benchmarked in Augusta, GA and Fresno, CA is roughly equal, the growth in square footage in Augusta is greater than that in Fresno.

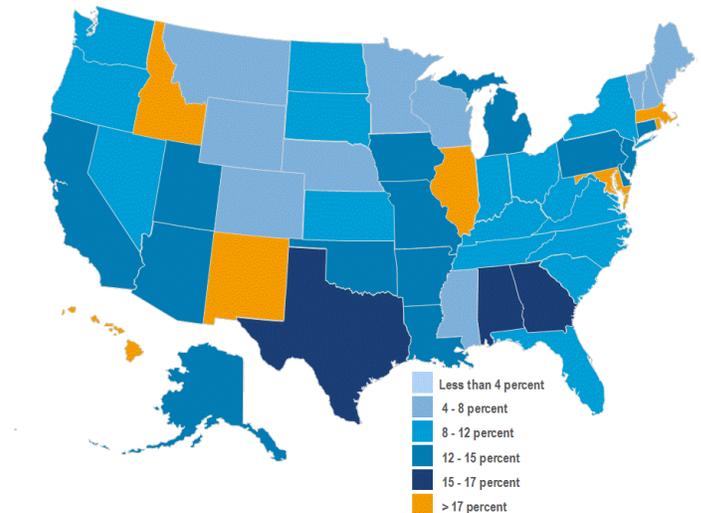
More information about mandatory and voluntary state and local programs that leverage ENERGY STAR can be found at [www.energystar.gov/government](http://www.energystar.gov/government).

Detailed benchmarking data, by state and metropolitan area, is provided in Appendices A and B.

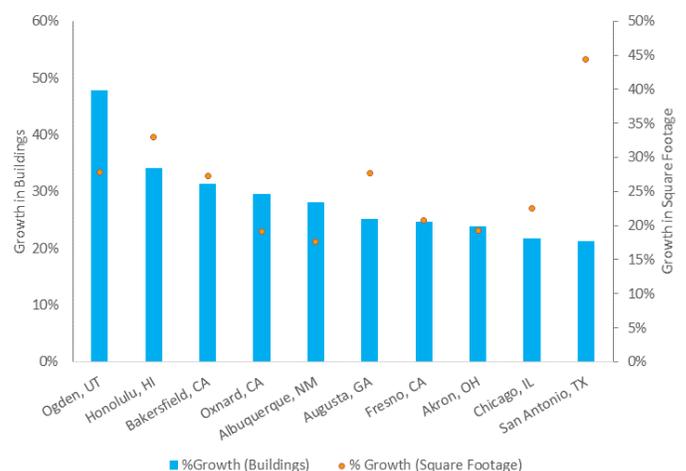
**Figure 3a.** Square footage of benchmarked buildings by state (cumulative)



**Figure 3b.** Growth in square footage of benchmarked buildings by state, 2014 to 2015 (cumulative)



**Figure 4.** Top 10 metropolitan areas by growth in benchmarked buildings, 2014 to 2015 (cumulative)



## ENERGY STAR Certification for Commercial Buildings

To be eligible for ENERGY STAR certification, a commercial 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 more than 28,000 buildings and more than 5 billion square feet of space (Figure 5, below).

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, multifamily housing, refrigerated warehouse, retail store, senior care community, supermarket/grocery, worship facility, and wholesale club/supercenter.

In 2015, roughly one-third of the more than 7,000 buildings certified were certified for the first time; the remaining two-thirds had already been certified in a prior year. This demonstrates the value of certification, as well as continued energy efficiency over time.

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 eighth most frequently certified building type, they come in fourth in terms of certified square footage.

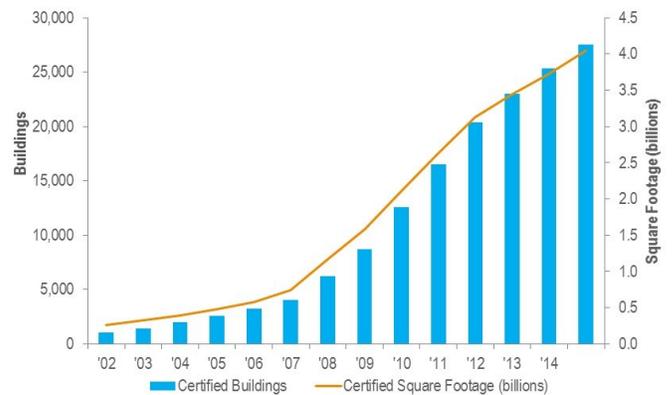
Table 1 demonstrates the distribution of certified buildings by size. More than half of all certified buildings are smaller than 100,000 square feet, but nearly 20% of certified buildings are larger than 200,000 square feet.

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

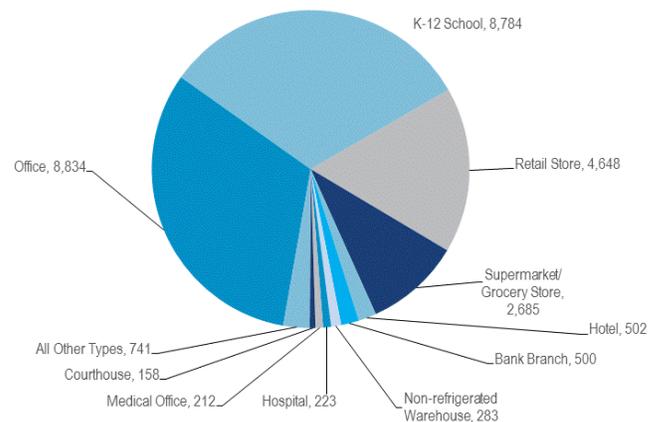
**Table 1.** Distribution of cumulative certified buildings by square footage

Range of Square Footage	Percent of Certified Buildings
<50,000	25%
50,001 to 100,000	33%
100,001 to 150,000	17%
150,001 to 200,000	7%
>200,000	18%

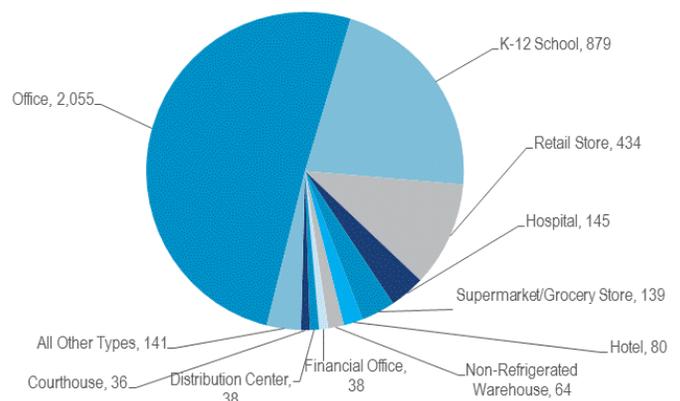
**Figure 5.** Cumulative ENERGY STAR certified buildings and square footage



**Figure 6a.** Cumulative ENERGY STAR certified buildings by type



**Figure 6b.** Cumulative ENERGY STAR certified square footage by type (millions)



## ENERGY STAR Certification for Industrial Facilities

More than 140 industrial facilities earned ENERGY STAR certification through 2015, indicating superior energy efficiency. More than 10 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 [www.energystar.gov/epis](http://www.energystar.gov/epis).

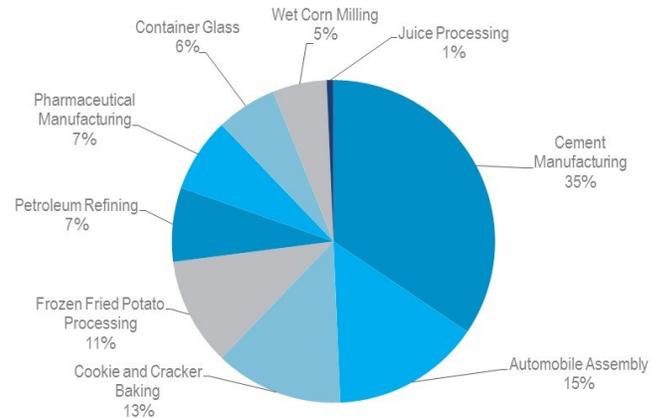
## Designed to Earn the ENERGY STAR

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.

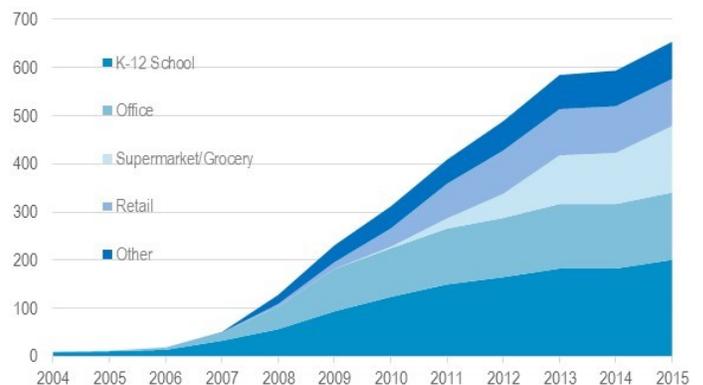
The majority of design projects fall in the K-12, office, supermarket, retail, and residence hall/dormitory building categories (Figure 8). However, there are a number of other building types that have earned this distinction.

Detailed data is provided in Appendices I and J. For more information, visit: [www.energystar.gov/buildings/service-providers/design/why-you-should-design-earn-energy-star](http://www.energystar.gov/buildings/service-providers/design/why-you-should-design-earn-energy-star).

**Figure 7.** Cumulative certified industrial facilities by type



**Figure 8.** Cumulative Designed to Earn the ENERGY STAR projects



## ENERGY STAR Challenge for Industry

The ENERGY STAR Challenge for Industry is a campaign designed to help energy managers and industrial sites improve energy performance and set goals. Industrial sites participate by committing to reduce energy intensity by 10 percent within 5 years or less.

In 2015, 53 sites achieved the Challenge and reported an average energy use intensity reduction of 20% (Figure 9). Since 2010, when the campaign was launched, more than 300 industrial facilities have achieved the Challenge, reducing emissions by more than 13 million metric tons.

For more information, visit [www.energystar.gov/industrychallenge](http://www.energystar.gov/industrychallenge).

## EPA's ENERGY STAR National Building Competition

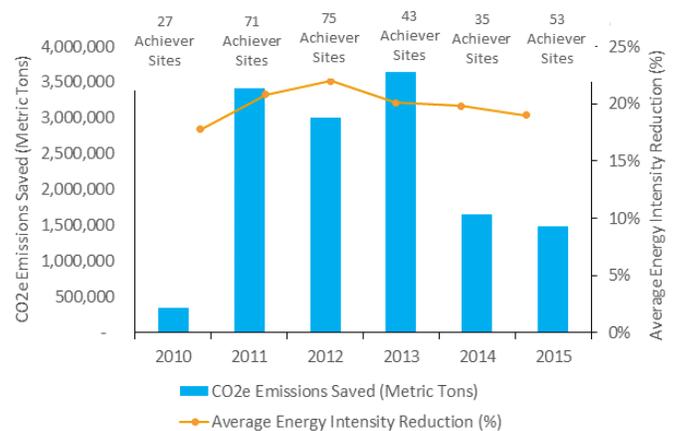
In 2015, EPA hosted its sixth season of the ENERGY STAR National Building Competition. This competition year, EPA recognized top buildings as well as top teams that reduced the most energy or water consumption on a percentage basis over 12 months. More than 125 teams and 6,500 buildings from across the nation battled the scale and each other.

The overall winner was the team that demonstrated the largest year-over-year percentage reduction in energy "weight," defined as energy use adjusted for weather and the square footage of team buildings. In 2015, the winner was Texas A&M ESCO Project, a team of six university buildings that reduced energy use by more than 35% over the 12-month competition period, and saved nearly \$550,000.

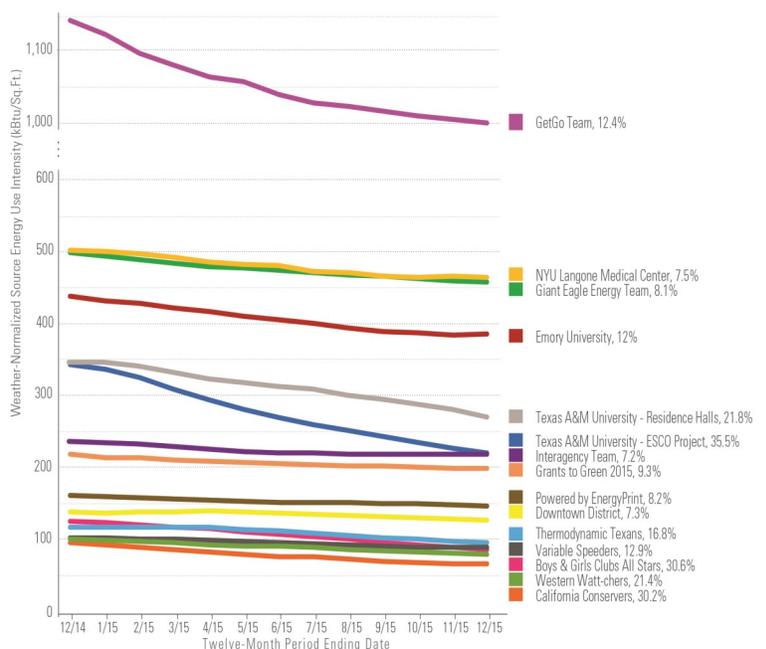
EPA also recognized more than 100 buildings for energy or water savings of 20% or more. All winners were required to have their data verified by a professional engineer or licensed architect to earn ENERGY STAR recognition.

Read about the successful strategies competitors have used to win during each competition year, and get their best energy-saving advice at [www.energystar.gov/BattleoftheBuildings](http://www.energystar.gov/BattleoftheBuildings).

**Figure 9.** Annual ENERGY STAR Challenge for Industry achievements



**Figure 10.** Path to energy savings for top teams in the 2015 ENERGY STAR National Building Competition



## Appendices

Appendix A. Benchmarked Buildings and Square Footage by State

Appendix B. Benchmarked Buildings and Square Footage by CBSA

Appendix C. Benchmarked Buildings and Square Footage by Type

Appendix D. ENERGY STAR Certified Buildings and Square Footage by State

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

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

Appendix G. ENERGY STAR Certified Plants by State

Appendix H. ENERGY STAR Certified Plants by Type

Appendix I. Designed to Earn the ENERGY STAR Projects by State

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

## Appendix A. Benchmarked Buildings and Square Footage by State

State/Territory	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Alabama	4,129	266,347,675	4,815	308,846,638	17%	16%
Alaska	800	41,466,118	945	46,648,205	18%	12%
American Samoa	3	20,004	5	211,601	67%	958%
Arizona	5,827	443,528,289	6,802	498,239,441	17%	12%
Arkansas	3,709	176,792,100	4,037	199,165,681	9%	13%
California	48,367	3,933,970,502	55,551	4,497,057,817	15%	14%
Colorado	7,412	554,065,547	7,940	595,342,015	7%	7%
Connecticut	5,161	353,933,717	5,985	403,084,454	16%	14%
Delaware	1,207	84,844,871	1,302	95,509,531	8%	13%
District of Columbia (D.C.)	3,523	674,826,562	4,022	757,283,238	14%	12%
Florida	17,337	1,232,586,717	19,192	1,346,427,435	11%	9%
Georgia	9,016	813,796,310	10,355	943,436,530	15%	16%
Guam	61	2,875,991	64	3,189,491	5%	11%
Hawaii	1,465	211,150,358	2,072	287,663,241	41%	36%
Idaho	1,524	78,608,347	1,797	91,834,810	18%	17%
Illinois	14,492	1,852,415,023	17,529	2,269,118,734	21%	22%
Indiana	6,637	513,901,501	7,290	557,656,070	10%	9%
Iowa	4,556	323,699,060	5,185	366,463,308	14%	13%
Kansas	3,383	232,431,890	3,732	258,719,316	10%	11%
Kentucky	4,584	297,284,069	5,021	329,046,159	10%	11%
Louisiana	3,115	202,597,440	3,497	230,636,635	12%	14%
Maine	2,000	88,110,204	2,108	91,743,916	5%	4%
Marshall Islands	1	2,779	1	2,779	0%	0%
Maryland	7,639	834,896,107	8,170	987,873,157	7%	18%
Massachusetts	11,471	967,764,687	13,418	1,180,096,396	17%	22%
Michigan	10,955	864,672,396	12,151	986,074,140	11%	14%
Minnesota	15,885	1,302,968,824	17,088	1,387,215,546	8%	6%
Mississippi	1,600	116,451,458	1,769	123,366,820	11%	6%
Missouri	5,052	433,422,358	5,636	495,488,734	12%	14%
Montana	1,165	108,906,170	1,283	113,858,972	10%	5%
Navajo Nation	2	149,398	2	149,398	0%	0%
Nebraska	2,214	176,994,277	2,439	189,678,090	10%	7%
Nevada	3,437	324,689,827	3,626	351,696,071	6%	8%
New Hampshire	3,147	134,470,268	3,294	144,389,777	5%	7%
New Jersey	10,407	806,932,273	11,386	904,192,282	9%	12%
New Mexico	2,795	160,430,484	3,437	187,814,187	23%	17%
New York	41,533	5,458,784,405	46,429	6,077,389,079	12%	11%
North Carolina	10,474	686,478,258	11,675	764,750,834	11%	11%
North Dakota	465	22,208,771	532	24,587,909	15%	11%

## Appendix A. Benchmarked Buildings and Square Footage by State

State/Territory	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Northern Mariana Islands	10	2,163,933	10	2,163,933	0%	0%
Ohio	15,851	1,295,355,174	17,357	1,406,280,762	9%	9%
Oklahoma	2,468	175,204,222	2,797	197,925,381	13%	13%
Oregon	4,990	377,409,258	5,491	417,773,000	10%	11%
Pacific Islands	10	261,280	10	261,280	0%	0%
Pennsylvania	16,502	1,419,518,809	17,970	1,596,529,999	9%	12%
Puerto Rico	779	35,750,366	787	38,086,405	1%	7%
Rhode Island	1,632	104,198,261	2,134	132,549,014	31%	27%
South Carolina	4,278	243,304,127	4,730	268,783,090	11%	10%
South Dakota	682	37,238,490	789	40,215,283	16%	8%
Tennessee	7,997	577,047,279	8,847	625,892,183	11%	8%
Texas	25,293	2,396,841,591	29,142	2,774,423,753	15%	16%
Trust Territories	10	822,665	11	974,982	20%	19%
U.S. Minor Outlying Islands	10	1,137,792	10	1,135,180	-9%	0%
Utah	3,377	236,665,878	3,944	269,113,460	17%	14%
Vermont	1,601	66,163,863	1,716	70,839,432	7%	7%
Virgin Islands of the U.S.	56	3,614,521	65	4,483,336	15%	24%
Virginia	11,719	1,006,492,793	12,334	1,114,228,346	5%	11%
Wake Island	12	542,470	12	542,470	0%	0%
Washington	15,188	1,072,385,360	17,780	1,182,783,525	17%	10%
West Virginia	1,533	91,149,410	1,645	101,211,060	7%	11%
Wisconsin	7,825	693,070,223	8,522	739,355,318	9%	7%
Wyoming	448	19,952,393	493	20,887,518	10%	5%
Non-US state/territory	5,019	1,228,790,736	5,523	1,500,980,188	10%	22%

Note: Changes in cumulative benchmarked properties and square footage may be negative. This may occur, for example, because a property owner/manager sells the property and removes the building from their Portfolio Manager account instead of transferring it to the new owner's account.

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

CBSA	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Akron OH	853	60,892,499	1,057	72,628,583	24%	19%
Albany-Schenectady-Troy NY	1,485	137,502,161	1,564	143,922,958	5%	5%
Albuquerque NM	1,166	90,580,545	1,493	106,561,831	28%	18%
Allentown-Bethlehem-Easton PA-NJ	1,037	81,442,065	1,149	90,094,385	11%	11%
Anchorage AK	333	25,727,879	375	27,624,416	13%	7%
Atlanta-Sandy Springs-Marietta GA	5,871	645,407,796	6,810	752,203,201	16%	17%
Augusta-Richmond County GA-SC	405	36,034,190	506	46,016,357	25%	28%
Austin-Round Rock-San Marcos TX	4,008	368,493,341	4,767	404,422,171	19%	10%
Bakersfield-Delano CA	616	35,288,740	808	44,894,692	31%	27%
Baltimore-Towson MD	3,658	478,884,480	3,949	533,180,186	8%	11%
Baton Rouge LA	576	35,112,747	641	39,354,532	11%	12%
Billings MT	200	12,252,201	219	13,185,506	9%	8%
Birmingham-Hoover AL	951	81,254,274	1,136	93,766,050	19%	15%
Boise City-Nampa ID	627	39,376,338	743	49,282,832	18%	25%
Boston-Cambridge-Quincy MA-NH	8,431	804,673,068	10,122	1,004,757,804	20%	25%
Bridgeport-Stamford-Norwalk CT	1,226	104,909,881	1,393	121,532,340	14%	16%
Buffalo-Niagara Falls NY	1,267	112,518,348	1,393	127,469,856	10%	13%
Cape Coral-Fort Myers FL	460	20,773,922	512	23,122,581	11%	11%
Charleston-North Charleston SC	721	40,538,745	815	45,113,792	13%	11%
Charlotte-Gastonia-Rock Hill NC-SC	2,420	202,184,282	2,760	227,403,025	14%	12%
Chattanooga TN-GA	613	33,584,820	732	41,298,535	19%	23%
Cheyenne WY	72	5,674,246	74	5,729,580	3%	1%
Chicago-Naperville-Joliet IL-IN-WI	12,321	1,714,975,695	15,002	2,100,905,507	22%	23%
Cincinnati-Middletown OH-KY-IN	2,787	247,066,115	2,989	260,549,289	7%	5%
Cleveland-Elyria-Mentor OH	2,914	255,332,858	3,294	280,482,298	13%	10%
Colorado Springs CO	719	51,781,606	765	54,191,725	6%	5%
Columbia SC	767	43,102,207	836	47,461,476	9%	10%
Columbus OH	2,945	290,370,524	3,144	306,904,150	7%	6%
Dallas-Fort Worth-Arlington TX	7,133	751,053,041	7,647	854,609,351	7%	14%
Dayton OH	1,575	115,128,492	1,775	133,614,338	13%	16%
Denver-Aurora CO	4,080	379,798,463	4,347	408,205,731	7%	7%
Des Moines-West Des Moines IA	1,340	114,023,483	1,568	137,161,806	17%	20%
Detroit-Warren-Livonia MI	4,689	400,930,679	5,027	464,727,203	7%	16%
El Paso TX	723	52,684,537	861	56,757,021	19%	8%
Fargo ND-MN	230	13,778,422	248	14,896,904	8%	8%
Fresno CA	852	51,965,610	1,062	62,730,416	25%	21%
Grand Rapids-Wyoming MI	1,022	79,954,357	1,220	91,071,302	19%	14%
Greensboro-High Point NC	723	44,922,288	838	52,308,915	16%	16%
Greenville-Mauldin-Easley SC	752	60,157,195	835	66,059,518	11%	10%

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

CBSA	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Harrisburg-Carlisle PA	1,010	69,034,458	1,071	73,348,900	6%	6%
Hartford-West Hartford-East Hartford CT	1,755	129,964,095	2,088	150,567,278	19%	16%
Honolulu HI	975	148,714,562	1,307	197,828,559	34%	33%
Houston-Sugar Land-Baytown TX	5,632	676,529,161	6,622	771,838,575	18%	14%
Indianapolis-Carmel IN	2,211	218,849,259	2,396	234,567,541	8%	7%
Jackson MS	391	34,447,298	446	39,174,734	14%	14%
Jacksonville FL	1,194	96,131,545	1,402	107,280,395	17%	12%
Kansas City MO-KS	2,435	221,270,040	2,729	261,192,171	12%	18%
Knoxville TN	907	68,876,659	1,071	77,985,015	18%	13%
Lakeland FL	497	28,874,018	530	30,297,214	7%	5%
Las Vegas-Paradise NV	2,390	250,904,505	2,518	274,155,384	5%	9%
Little Rock-North Little Rock-Conway AR	1,199	79,339,241	1,286	85,582,827	7%	8%
Los Angeles-Long Beach-Santa Ana CA	13,281	1,341,988,500	15,134	1,517,591,450	14%	13%
Louisville/Jefferson County KY-IN	1,549	127,974,133	1,712	143,450,956	11%	12%
Madison WI	1,126	106,224,881	1,242	115,653,877	10%	9%
Manchester-Nashua NH	757	37,655,619	752	40,619,991	-1%	8%
McAllen-Edinburg-Mission TX	593	42,851,088	667	49,235,599	13%	15%
Memphis TN-MS-AR	1,388	150,137,223	1,583	149,685,601	14%	0%
Miami-Fort Lauderdale-Pompano Beach FL	4,608	358,372,544	5,260	400,744,620	14%	12%
Milwaukee-Waukesha-West Allis WI	2,364	261,075,872	2,563	278,590,409	8%	7%
Minneapolis-St. Paul-Bloomington MN-WI	9,049	963,661,060	9,884	1,022,099,168	9%	6%
Modesto CA	316	15,843,470	362	18,572,043	14%	17%
Nashville-Davidson--Murfreesboro--Franklin	2,174	212,934,141	2,340	225,466,249	8%	6%
New Haven-Milford CT	1,243	68,467,822	1,335	74,077,442	7%	8%
New Orleans-Metairie-Kenner LA	1,085	97,041,999	1,279	113,155,423	18%	17%
New York-Northern New Jersey-Long Island NY	39,477	5,335,502,110	44,314	5,966,366,660	12%	12%
North Port-Bradenton-Sarasota FL	676	40,098,898	747	41,277,847	10%	3%
Ogden-Clearfield UT	677	49,891,638	1,001	63,746,836	48%	28%
Oklahoma City OK	1,020	83,047,921	1,150	93,433,795	13%	13%
Omaha-Council Bluffs NE-IA	1,226	114,410,985	1,383	121,066,388	13%	6%
Orlando-Kissimmee-Sanford FL	2,664	258,147,801	2,820	271,307,951	6%	5%
Oxnard-Thousand Oaks-Ventura CA	991	57,190,913	1,283	68,144,521	30%	19%
Palm Bay-Melbourne-Titusville FL	625	32,707,351	703	36,526,294	12%	12%
Philadelphia-Camden-Wilmington PA-NJ-DE-	8,465	792,053,122	9,076	886,534,975	7%	12%
Phoenix-Mesa-Glendale AZ	3,767	345,957,585	4,376	389,923,305	16%	13%
Pittsburgh PA	3,220	274,072,651	3,593	319,115,931	12%	16%
Portland-South Portland-Biddeford ME	1,034	41,564,215	1,057	42,389,034	2%	2%
Portland-Vancouver-Hillsboro OR-WA	3,813	321,707,471	4,035	344,111,919	6%	7%

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

CBSA	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Poughkeepsie-Newburgh-Middletown	1,217	53,006,101	1,246	54,924,089	2%	4%
Providence-New Bedford-Fall River RI-	2,897	150,970,728	3,420	180,773,536	18%	20%
Provo-Orem UT	386	22,563,203	429	23,869,197	11%	6%
Raleigh-Cary NC	1,669	117,534,103	1,861	133,145,620	11%	13%
Richmond VA	1,702	141,175,583	1,857	152,849,998	9%	8%
Riverside-San Bernardino-Ontario CA	3,626	304,044,431	4,107	353,495,599	13%	16%
Rochester NY	1,320	120,740,693	1,435	131,553,287	9%	9%
Sacramento--Arden-Arcade--Roseville	3,461	241,367,607	3,838	266,540,083	11%	10%
Salt Lake City UT	1,596	137,356,051	1,704	152,854,974	7%	11%
San Antonio-New Braunfels TX	1,946	167,002,190	2,360	241,100,811	21%	44%
San Diego-Carlsbad-San Marcos CA	5,741	427,076,233	6,421	483,433,530	12%	13%
San Francisco-Oakland-Fremont CA	9,777	867,296,188	11,231	984,769,469	15%	14%
San Jose-Sunnyvale-Santa Clara CA	3,809	278,761,850	4,364	330,029,278	15%	18%
Scranton--Wilkes-Barre PA	620	43,593,117	712	48,857,387	15%	12%
Seattle-Tacoma-Bellevue WA	10,810	837,655,206	11,816	910,912,951	9%	9%
Sioux Falls SD	206	17,779,735	238	20,033,077	16%	13%
Springfield MA	1,005	58,316,161	1,121	68,712,140	12%	18%
St. Louis MO-IL	2,426	241,087,127	2,701	267,201,840	11%	11%
Stockton CA	527	40,009,421	573	43,817,988	9%	10%
Syracuse NY	887	68,801,189	945	74,102,178	7%	8%
Tampa-St. Petersburg-Clearwater FL	2,865	196,733,456	3,068	216,602,163	7%	10%
Toledo OH	1,095	76,209,769	1,134	78,831,791	4%	3%
Tucson AZ	989	57,825,750	1,114	62,256,132	13%	8%
Tulsa OK	741	57,416,863	802	63,633,575	8%	11%
Virginia Beach-Norfolk-Newport News	2,623	170,319,665	2,630	180,839,666	0%	6%
Washington-Arlington-Alexandria DC-	11,314	1,528,129,987	12,332	1,780,320,989	9%	17%
Wichita KS	675	48,404,752	764	54,204,286	13%	12%
Worcester MA	1,019	65,612,173	1,057	70,887,601	4%	8%
Youngstown-Warren-Boardman OH-PA	548	42,753,584	585	47,486,723	7%	11%

Note: Changes in cumulative benchmarked properties and square footage may be negative. This may occur, for example, because a property owner/manager sells the property and removes the building from their Portfolio Manager account instead of transferring it to the new owner's account.

## Appendix C. Benchmarked Buildings and Square Footage by Type

Property Type	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Adult Education	141	9,035,251	263	15,013,098	87%	66%
Ambulatory Surgical Center	29	2,758,164	46	3,484,141	59%	26%
Aquarium	3	119,701	8	1,217,338	167%	917%
Automobile Dealership	214	13,805,790	320	18,223,370	50%	32%
Bank Branch	25,502	173,056,096	29,881	211,014,843	17%	22%
Bar/Nightclub	13	155,104	42	604,671	223%	290%
Barracks	134	4,972,414	177	8,323,102	32%	67%
Bowling Alley	8	375,637	16	630,583	100%	68%
Casino	18	7,664,857	24	8,971,963	33%	17%
College/University	4,596	720,105,790	6,349	1,079,541,646	38%	50%
Convenience Store with Gas Station	50	204,015	67	466,787	34%	129%
Convenience Store without Gas Station	5,944	16,011,688	379	1,323,191	-94%	-92%
Convention Center	66	42,611,908	112	66,092,835	70%	55%
Courthouse	2,023	272,672,449	2,157	290,424,351	7%	7%
Data Center	1,027	100,533,180	1,188	112,838,798	16%	12%
Distribution Center	2,278	577,233,398	2,889	693,404,587	27%	20%
Drinking Water Treatment & Distribution	609	4,987,708	751	14,314,315	23%	187%
Enclosed Mall	98	59,967,866	149	94,485,670	52%	58%
Energy/Power Station	40	2,350,114	67	4,142,403	68%	76%
Fast Food Restaurant	2,441	7,216,796	2,090	7,045,455	-14%	-2%
Financial Office	1,505	383,898,527	1,669	418,631,838	11%	9%
Fire Station	2,917	28,866,656	3,901	37,338,193	34%	29%
Fitness Center/Health Club/Gym	326	20,051,273	576	34,151,461	77%	70%
Food Sales	41	871,810	57	2,989,788	39%	243%
Food Service	6,617	14,290,608	7,226	19,101,745	9%	34%
Hospital (General Medical & Surgical)	5,424	2,676,907,206	6,126	2,964,986,628	13%	11%
Hotel	11,128	2,043,657,860	12,170	2,218,614,906	9%	9%
Ice/Curling Rink	118	6,543,288	140	7,698,606	19%	18%
Indoor Arena	40	9,861,581	71	17,794,597	78%	80%
K-12 School	62,474	6,535,951,376	68,557	7,163,733,473	10%	10%

## Appendix C. Benchmarked Buildings and Square Footage by Type

Property Type	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Laboratory	455	54,338,120	827	99,767,853	82%	84%
Library	2,663	93,634,083	3,072	108,071,099	15%	15%
Lifestyle Center	91	29,092,697	113	36,326,946	24%	25%
Mailing Center/Post Office	4,076	159,419,528	4,490	171,317,726	10%	7%
Manufacturing/Industrial Plant	740	160,879,469	1,497	268,253,364	102%	67%
Medical Office	5,917	387,407,036	6,520	423,840,550	10%	9%
Mixed Use Property	0	0	1,766	280,874,578	NA	NA
Movie Theater	335	19,481,116	368	21,331,502	10%	9%
Multifamily Housing	24,423	3,018,571,516	30,652	3,846,219,862	26%	27%
Museum	293	31,395,003	480	49,594,949	64%	58%
Non-Refrigerated Warehouse	9,763	796,402,912	11,075	881,802,775	13%	11%
Office	70,648	9,889,190,301	78,976	10,897,695,951	12%	10%
Other	24,264	1,688,787,457	24,822	1,559,252,609	2%	-8%
Other - Education	1,300	62,154,662	1,343	67,444,850	3%	9%
Other - Entertainment/Public Assembly	1,604	235,037,998	1,802	235,335,523	12%	0%
Other - Lodging/Residential	883	47,644,867	978	54,393,611	11%	14%
Other - Mall	324	101,941,611	399	115,051,959	23%	13%
Other - Public Services	2,478	92,696,639	2,821	98,273,069	14%	6%
Other - Recreation	2,739	108,157,559	3,004	116,366,114	10%	8%
Other - Restaurant/Bar	30	587,245	58	1,059,643	93%	80%
Other - Services	1,619	56,868,960	1,716	56,086,749	6%	-1%
Other/Specialty Hospital	331	63,862,235	374	71,049,729	13%	11%
Other - Stadium	7	340,762	10	460,607	43%	35%
Other - Technology/Science	82	4,619,870	154	8,242,977	88%	78%
Other - Utility	128	3,609,084	272	7,975,560	113%	121%
Outpatient Rehabilitation/Physical Therapy	131	10,939,575	155	14,350,600	18%	31%
Parking	1,383	210,325,597	1,500	256,292,256	8%	22%
Performing Arts	184	19,815,270	269	31,751,612	46%	60%
Personal Services (Health/Beauty, Dry Cleaning, etc)	54	887,994	70	1,150,285	0%	0%
Police Station	876	28,624,407	1,132	36,622,045	29%	28%

## Appendix C. Benchmarked Buildings and Square Footage by Type

Property Type	Cumulative benchmarked through 2014		Cumulative benchmarked through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Pre-school/Daycare	321	7,638,605	520	12,407,172	62%	62%
Prison/Incarceration	432	121,363,688	575	157,863,259	33%	30%
Race Track	2	77,983	5	524,163	150%	572%
Refrigerated Warehouse	671	109,282,347	960	129,107,821	43%	18%
Repair Services (Vehicle, Shoe, Locksmith, etc)	1,014	33,032,684	1,220	44,216,874	0%	0%
Residence Hall/Dormitory	4,710	350,815,734	5,440	400,708,886	15%	14%
Restaurant	764	10,382,868	883	11,959,546	16%	15%
Retail Store	76,436	2,908,300,428	87,145	3,098,699,082	14%	7%
Roller Rink	1	33,155	2	53,873	100%	62%
Self-Storage Facility	407	28,033,215	792	54,603,065	95%	95%
Senior Care Community	2,718	224,304,006	3,298	281,671,480	21%	26%
Single Family Home	916	4,090,159	1,081	5,026,366	18%	23%
Social/Meeting Hall	1,262	34,528,995	1,428	41,833,502	13%	21%
Stadium (Closed)	3	1,960,800	6	4,790,317	100%	144%
Stadium (Open)	50	20,165,642	68	29,090,896	36%	44%
Strip Mall	241	21,264,611	387	33,390,461	61%	57%
Supermarket/Grocery Store	16,147	724,477,757	16,357	737,496,910	1%	2%
Swimming Pool	158	905,018	170	1,016,125	8%	12%
Transportation Terminal/Station	227	20,765,075	434	34,423,904	91%	66%
Urgent Care/Clinic/Other Out-patient	347	16,697,947	519	24,641,218	50%	48%
Veterinary Office	26	455,700	53	918,369	104%	102%
Vocational School	86	6,343,797	182	12,894,176	112%	103%
Wastewater Treatment Plant	1,568	24,051,312	1,700	41,856,674	8%	74%
Wholesale Club/Supercenter	50	6,765,473	92	20,751,511	84%	207%
Worship Facility	2,684	105,344,669	3,447	130,922,400	28%	24%
Zoo	20	3,943,252	42	5,005,105	110%	27%

Note: Changes in cumulative benchmarked properties and square footage may be negative. This may occur, for example, because a property owner/manager sells the property and removes the building from their Portfolio Manager account instead of transferring it to the new owner's account.

## Appendix D. ENERGY STAR Certified Buildings and Square Footage by State

State Name	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Alabama	184	19,257,365	206	21,739,263	12%	13%
Alaska	38	3,607,984	41	4,254,388	8%	18%
American Samoa	0	0	0	0	0%	0%
Arizona	580	68,846,514	670	79,006,712	16%	15%
Arkansas	57	6,617,268	79	8,712,335	39%	32%
California	4,398	584,606,320	4,719	612,346,432	7%	5%
Colorado	843	109,267,503	886	116,687,392	5%	7%
Connecticut	232	36,803,765	237	37,130,745	2%	1%
Delaware	84	9,013,563	86	9,197,441	2%	2%
District of Columbia (D.C.)	313	104,799,628	334	111,886,664	7%	7%
Florida	935	129,751,713	1,013	140,044,628	8%	8%
Georgia	822	151,308,720	887	159,479,663	8%	5%
Guam	2	166,818	2	166,818	0%	0%
Hawaii	75	19,028,559	140	25,423,893	87%	34%
Idaho	147	12,276,724	168	14,757,541	14%	20%
Illinois	853	223,057,720	912	236,299,881	7%	6%
Indiana	612	73,969,938	676	79,740,939	10%	8%
Iowa	248	27,349,399	259	29,302,724	4%	7%
Kansas	207	20,948,750	216	21,730,164	4%	4%
Kentucky	500	41,681,689	548	44,827,414	10%	8%
Louisiana	71	19,237,268	100	22,121,806	41%	15%
Maine	70	6,198,680	77	6,929,995	10%	12%
Marshall Islands	0	0	0	0	0%	0%
Maryland	424	53,213,210	474	60,294,746	12%	13%
Massachusetts	587	108,098,269	641	118,996,409	9%	10%
Michigan	878	102,321,795	911	107,136,460	4%	5%
Minnesota	600	110,989,520	649	117,196,527	8%	6%
Mississippi	58	6,379,178	63	7,457,653	9%	17%
Missouri	292	50,563,169	316	53,662,553	8%	6%
Montana	75	5,495,532	82	6,196,059	9%	13%
Navajo Nation	0	0	0	0	0%	0%
Nebraska	112	14,257,409	126	15,869,641	13%	11%
Nevada	109	13,841,961	121	15,880,645	11%	15%
New Hampshire	146	14,129,783	149	14,283,360	2%	1%
New Jersey	467	68,414,920	498	73,459,081	7%	7%
New Mexico	245	27,162,883	253	28,388,702	3%	5%
New York	1,100	288,033,312	1,193	317,480,115	8%	10%

## Appendix D. ENERGY STAR Certified Buildings and Square Footage by State

State Name	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
North Carolina	1,223	102,737,704	1,276	107,490,728	4%	5%
North Dakota	29	2,361,244	30	2,425,721	3%	3%
Northern Mariana Islands	0	0	0	0	0%	0%
Ohio	946	126,092,852	1,023	137,437,038	8%	9%
Oklahoma	121	14,791,003	134	18,642,652	11%	26%
Oregon	328	45,197,696	334	45,424,753	2%	1%
Pacific Islands	0	0	0	0	0%	0%
Pennsylvania	876	126,917,561	954	141,401,662	9%	11%
Puerto Rico	16	1,336,739	19	2,194,975	19%	64%
Rhode Island	79	7,656,175	80	7,838,021	1%	2%
South Carolina	334	27,989,485	348	29,390,327	4%	5%
South Dakota	73	6,355,933	76	6,623,568	4%	4%
Tennessee	284	41,040,032	327	46,154,410	15%	12%
Texas	1,768	351,839,954	2,013	389,361,201	14%	11%
Trust Territories	1	129,819	1	129,819	0%	0%
U.S. Minor Outlying Islands	0	0	0	0	0%	0%
Utah	368	36,600,082	410	41,350,478	11%	13%
Vermont	71	5,165,566	75	5,406,715	6%	5%
Virgin Islands of the U.S.	1	76,227	1	76,227	0%	0%
Virginia	1,137	134,802,454	1,342	163,005,353	18%	21%
Wake Island	0	0	0	0	0%	0%
Washington	612	92,695,150	657	100,385,191	7%	8%
West Virginia	84	6,495,638	91	7,523,580	8%	16%
Wisconsin	603	73,994,984	622	76,075,735	3%	3%
Wyoming	22	1,623,972	25	1,847,545	14%	14%

Note: Changes in cumulative certified square footage may be negative. This may occur, for example, if a property is certified in 2014, then reduces its square footage and applies for certification again in 2015. While this table summarizes unique certified buildings, the cumulative square footage reported for each year reflects the square footage value which was submitted with each building's most recent certification application.

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

CBSA	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Akron OH	55	5,922,911	64	6,700,701	16%	13%
Albany-Schenectady-Troy NY	134	16,633,094	140	17,189,194	4%	3%
Albuquerque NM	145	19,085,859	151	20,177,564	4%	6%
Allentown-Bethlehem-Easton PA-NJ	94	11,600,344	101	12,534,560	7%	8%
Anchorage AK	29	2,692,522	31	3,025,724	7%	12%
Atlanta-Sandy Springs-Marietta GA	666	138,699,871	708	144,318,554	6%	4%
Augusta-Richmond County GA-SC	22	3,110,301	24	3,274,333	9%	5%
Austin-Round Rock-San Marcos TX	240	30,987,080	249	32,187,384	4%	4%
Bakersfield-Delano CA	20	1,627,824	20	1,627,824	0%	0%
Baltimore-Towson MD	164	18,277,769	194	22,042,181	18%	21%
Baton Rouge LA	8	993,639	28	2,721,385	250%	174%
Billings MT	40	2,682,565	42	2,909,319	5%	8%
Birmingham-Hoover AL	40	6,672,698	46	7,516,322	15%	13%
Boise City-Nampa ID	69	6,534,015	87	8,715,459	26%	33%
Boston-Cambridge-Quincy MA-NH	492	96,923,899	531	105,688,032	8%	9%
Bridgeport-Stamford-Norwalk CT	75	11,631,185	76	11,725,239	1%	1%
Buffalo-Niagara Falls NY	78	11,418,039	83	13,084,976	6%	15%
Cape Coral-Fort Myers FL	5	266,446	6	394,157	20%	48%
Charleston-North Charleston SC	51	4,300,297	52	4,305,533	2%	0%
Charlotte-Gastonia-Rock Hill NC-SC	379	45,982,470	397	47,918,544	5%	4%
Chattanooga TN-GA	23	3,579,359	24	3,584,374	4%	0%
Cheyenne WY	5	786,791	7	954,921	40%	21%
Chicago-Naperville-Joliet IL-IN-WI	711	213,729,533	761	226,200,511	7%	6%
Cincinnati-Middletown OH-KY-IN	258	41,501,863	269	43,011,340	4%	4%
Cleveland-Elyria-Mentor OH	181	29,269,289	187	30,741,578	3%	5%
Colorado Springs CO	98	9,175,840	109	10,821,735	11%	18%
Columbia SC	61	5,322,227	66	5,667,298	8%	6%
Columbus OH	186	28,330,662	205	30,934,368	10%	9%
Dallas-Fort Worth-Arlington TX	618	126,890,967	692	141,162,156	12%	11%
Dayton OH	57	5,331,719	69	8,407,300	21%	58%
Denver-Aurora CO	500	82,081,856	525	86,995,805	5%	6%
Des Moines-West Des Moines IA	104	14,667,323	106	15,014,108	2%	2%
Detroit-Warren-Livonia MI	440	60,796,995	452	63,048,065	3%	4%
El Paso TX	10	1,065,287	13	1,478,321	30%	39%
Fargo ND-MN	11	1,087,251	11	1,087,251	0%	0%
Fresno CA	88	7,389,834	91	8,178,730	3%	11%
Grand Rapids-Wyoming MI	84	8,617,352	86	8,808,944	2%	2%
Greensboro-High Point NC	75	4,831,950	77	4,998,020	3%	3%

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

CBSA	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Greenville-Mauldin-Easley SC	74	8,150,759	79	8,981,186	7%	10%
Harrisburg-Carlisle PA	57	7,043,257	62	7,821,825	9%	11%
Hartford-West Hartford-East Hartford CT	70	13,590,604	73	13,943,526	4%	3%
Honolulu HI	67	17,789,828	114	22,968,582	70%	29%
Houston-Sugar Land-Baytown TX	518	144,219,720	564	153,263,508	9%	6%
Indianapolis-Carmel IN	210	30,843,684	230	32,974,040	10%	7%
Jackson MS	30	2,593,289	30	2,593,289	0%	0%
Jacksonville FL	85	11,572,227	94	12,814,363	11%	11%
Kansas City MO-KS	228	36,420,162	242	38,299,023	6%	5%
Knoxville TN	31	5,123,618	34	5,471,493	10%	7%
Lakeland FL	125	11,867,575	125	11,867,575	0%	0%
Las Vegas-Paradise NV	85	10,153,451	92	11,703,253	8%	15%
Little Rock-North Little Rock-Conway AR	23	2,440,271	28	2,902,205	22%	19%
Los Angeles-Long Beach-Santa Ana CA	1,520	239,393,477	1,650	246,984,263	9%	3%
Louisville/Jefferson County KY-IN	190	19,250,330	198	19,786,066	4%	3%
Madison WI	86	10,313,281	87	10,542,595	1%	2%
Manchester-Nashua NH	42	5,207,835	44	5,296,790	5%	2%
McAllen-Edinburg-Mission TX	42	3,707,441	47	4,489,145	12%	21%
Memphis TN-MS-AR	54	10,264,054	67	13,042,863	24%	27%
Miami-Fort Lauderdale-Pompano Beach FL	214	38,025,744	229	40,428,097	7%	6%
Milwaukee-Waukesha-West Allis WI	216	30,789,663	222	31,436,491	3%	2%
Minneapolis-St. Paul-Bloomington MN-WI	476	100,113,178	513	105,035,228	8%	5%
Modesto CA	38	2,932,676	38	2,932,676	0%	0%
Nashville-Davidson--Murfreesboro--Franklin TN	104	17,081,845	108	17,486,427	4%	2%
New Haven-Milford CT	53	7,309,814	54	7,189,818	2%	-2%
New Orleans-Metairie-Kenner LA	41	15,355,747	45	15,914,801	10%	4%
New York-Northern New Jersey-Long Island NY-NJ-PA	863	274,924,025	965	306,179,938	12%	11%
North Port-Bradenton-Sarasota FL	33	4,773,627	37	5,577,103	12%	17%
Ogden-Clearfield UT	92	8,874,996	93	9,472,832	1%	7%
Oklahoma City OK	45	5,681,135	50	6,207,930	11%	9%
Omaha-Council Bluffs NE-IA	75	9,759,763	82	10,600,405	9%	9%
Orlando-Kissimmee-Sanford FL	123	19,321,857	142	22,024,020	15%	14%
Oxnard-Thousand Oaks-Ventura CA	119	10,305,552	120	10,491,566	1%	2%
Palm Bay-Melbourne-Titusville FL	72	8,434,283	80	9,021,370	11%	7%
Philadelphia-Camden-Wilmington PA-NJ-DE-MD	467	74,235,896	500	82,318,157	7%	11%
Phoenix-Mesa-Glendale AZ	437	57,111,344	505	65,081,221	16%	14%
Pittsburgh PA	143	21,114,601	160	23,278,672	12%	10%
Portland-South Portland-Biddeford ME	40	2,846,529	45	3,354,451	13%	18%

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

CBSA	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Portland-Vancouver-Hillsboro OR-WA	318	45,560,110	324	45,969,236	2%	1%
Poughkeepsie-Newburgh-Middletown NY	38	4,595,924	39	4,767,924	3%	4%
Providence-New Bedford-Fall River RI-MA	104	10,328,589	115	12,028,917	11%	16%
Provo-Orem UT	46	4,805,347	47	4,930,312	2%	3%
Raleigh-Cary NC	138	12,054,258	145	12,996,170	5%	8%
Richmond VA	132	12,445,857	145	14,679,740	10%	18%
Riverside-San Bernardino-Ontario CA	390	36,225,807	418	39,197,074	7%	8%
Rochester NY	101	12,565,941	101	12,565,941	0%	0%
Sacramento--Arden-Arcade--Roseville CA	394	37,812,843	399	38,322,675	1%	1%
Salt Lake City UT	141	15,861,207	180	19,749,076	28%	25%
San Antonio-New Braunfels TX	121	23,548,245	139	26,857,427	15%	14%
San Diego-Carlsbad-San Marcos CA	489	49,647,750	514	52,411,528	5%	6%
San Francisco-Oakland-Fremont CA	721	140,203,552	789	147,787,310	9%	5%
San Jose-Sunnyvale-Santa Clara CA	254	30,006,238	303	34,482,757	19%	15%
Scranton--Wilkes-Barre PA	27	2,603,106	30	3,141,742	11%	21%
Seattle-Tacoma-Bellevue WA	395	70,958,879	432	78,013,737	9%	10%
Sioux Falls SD	46	4,531,205	47	4,683,306	2%	3%
Springfield MA	17	1,930,517	19	2,357,010	12%	22%
St. Louis MO-IL	129	21,142,444	136	22,174,745	5%	5%
Stockton CA	104	8,848,997	107	8,891,611	3%	0%
Syracuse NY	64	7,189,150	65	7,316,430	2%	2%
Tampa-St. Petersburg-Clearwater FL	158	24,062,573	167	25,026,248	6%	4%
Toledo OH	45	3,732,806	49	4,168,149	9%	12%
Tucson AZ	64	6,195,163	80	7,880,895	25%	27%
Tulsa OK	38	6,395,524	44	9,530,086	16%	49%
Virginia Beach-Norfolk-Newport News VA-NC	206	15,464,739	219	16,871,823	6%	9%
Washington-Arlington-Alexandria DC-VA-MD-WV	1,023	223,515,180	1,230	257,362,031	20%	15%
Wichita KS	21	2,900,232	24	3,144,805	14%	8%
Worcester MA	45	5,078,022	47	5,217,796	4%	3%
Youngstown-Warren-Boardman OH-PA	21	1,782,156	22	1,908,353	5%	7%

Note: Changes in cumulative certified square footage may be negative. This may occur, for example, if a property is certified in 2014, then reduces its square footage and applies for certification again in 2015. While this table summarizes unique certified buildings, the cumulative square footage reported for each year reflects the square footage value which was submitted with each building's most recent certification application.

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

Building Type	Cumulative certified through 2014		Cumulative certified through 2015		Percent Change 2014 to 2015	
	Buildings	Square Footage	Buildings	Square Footage	Buildings	Square Footage
Bank Branch	453	29,684,859	500	26,090,382	10%	-12%
Barracks	0	0	0	0	0%	0%
Courthouse	150	34,455,145	158	35,665,469	5%	4%
Data Center	61	8,340,227	72	9,175,157	18%	10%
Distribution Center	70	24,495,503	108	37,770,119	54%	54%
Financial Office	49	29,894,511	71	38,388,664	45%	28%
Hospital (General Medical & Surgical)	202	137,677,981	223	145,354,946	10%	6%
Hotel	486	76,777,877	502	79,815,649	3%	4%
K-12 School	8,026	800,867,693	8,784	878,871,175	9%	10%
Medical Office	214	21,112,147	212	20,791,858	-1%	-2%
Mixed Use	83	25,931,139	78	24,172,646	-6%	-7%
Multifamily Housing	21	18,276,869	76	32,289,434	262%	77%
Non-Refrigerated Warehouse	278	66,113,952	283	64,135,948	2%	-3%
Office	8,188	1,935,768,549	8,834	2,054,581,548	8%	6%
Refrigerated Warehouse	11	2,703,705	11	2,703,705	0%	0%
Residence Hall/Dormitory	139	9,534,352	139	9,534,352	0%	0%
Retail Store	4,122	370,126,973	4,648	433,651,224	13%	17%
Senior Care Community	98	7,024,791	108	7,486,575	10%	7%
Supermarket/Grocery Store	2,641	136,537,280	2,685	139,189,160	2%	2%
Worship Facility	48	1,273,542	54	1,515,255	13%	19%

Note: Changes in cumulative certified buildings and square footage may be negative. This may occur, for example, if a property is certified as “Bank Branch” in 2014 or before, and then has a legitimate change in property type to “Financial Office” in 2015. In this case, the cumulative number of certified “Bank Branch” buildings and square footage would decrease from 2014 to 2015. Percent change in building count and square footage do not necessarily vary in the same proportion.

## Appendix G. ENERGY STAR Certified Plants by State

State	Cumulative Certified through		Change 2014 to 2015
	2014	2015	
Alabama	7	7	0
Arizona	2	2	0
California	11	11	0
Colorado	1	1	0
Delaware	1	1	0
Florida	4	5	1
Georgia	4	4	0
Idaho	3	4	1
Illinois	4	4	0
Indiana	7	9	2
Iowa	4	4	0
Kansas	1	1	0
Kentucky	5	5	0
Louisiana	3	3	0
Maine	1	1	0
Maryland	1	1	0
Massachusetts	2	2	0
Michigan	3	3	0
Minnesota	4	4	0
Mississippi	2	2	0
Missouri	7	7	0
Montana	2	2	0
Nebraska	2	2	0
New Jersey	1	2	1
New Mexico	1	1	0
New York	2	2	0
North Carolina	2	2	0
North Dakota	1	1	0
Ohio	7	8	1
Oklahoma	3	3	0
Oregon	3	4	1
Pennsylvania	3	3	0
Puerto Rico	2	4	2
South Carolina	1	1	0
South Dakota	1	1	0
Tennessee	5	5	0
Texas	8	8	0
Utah	3	3	0
Virginia	2	2	0
Washington	9	9	0
West Virginia	1	1	0
Wisconsin	3	3	0

## Appendix H. ENERGY STAR Certified Plants by Type

Plant Type	Cumulative Certified through		Change 2014 to 2015
	2014	2015	
Automobile Assembly	22	22	0
Cement Manufacturing	50	51	1
Container Glass	7	9	2
Cookie and Cracker Baking	19	19	0
Frozen Fried Potato Processing	14	16	2
Juice Processing	1	1	0
Petroleum Refining	11	11	0
Pharmaceutical Manufacturing	8	11	3
Wet Corn Milling	7	8	1

## Appendix I. Designed to Earn the ENERGY STAR Projects by State

State / Territory	Cumulative Designed to Earn the ENERGY STAR Projects		Change 2014 to 2015
	2014	2015	
Alaska	0	1	1
Alabama	3	3	0
Arkansas	4	4	0
Arizona	8	8	0
California	40	41	1
Colorado	25	26	1
Connecticut	8	8	0
Washington, DC	3	3	0
Delaware	1	1	0
Florida	15	15	0
Georgia	21	23	2
Hawaii	0	0	0
Iowa	5	5	0
Idaho	1	1	0
Illinois	19	19	0
Indiana	20	20	0
Kansas	7	7	0
Kentucky	37	37	0
Louisiana	6	6	0
Massachusetts	10	10	0
Maryland	7	7	0
Maine	0	0	0
Michigan	14	14	0
Minnesota	4	4	0
Missouri	3	3	0
Mississippi	2	2	0
Montana	1	1	0
North Carolina	48	49	1
North Dakota	2	2	0
Northern Mariana Islands	1	1	0
Nebraska	5	5	0
New Hampshire	2	2	0
New Jersey	3	3	0
New Mexico	16	17	1
Nevada	7	7	0
New York	10	10	0
Ohio	95	132	37

## Appendix I. Designed to Earn the ENERGY STAR Projects by State

State / Territory	Cumulative Designed to Earn the ENERGY STAR Projects		Change 2014 to 2015
	2014	2015	
Oklahoma	4	4	0
Oregon	8	8	0
Pennsylvania	14	14	0
Rhode Island	1	1	0
South Carolina	14	14	0
South Dakota	1	1	0
Tennessee	22	24	2
Texas	52	52	0
Utah	2	2	0
Virginia	33	34	1
Vermont	0	0	0
Washington	25	25	0
Wisconsin	12	12	0
West Virginia	0	0	0
Wyoming	3	3	0

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

Property Type	Cumulative Designed to Earn the ENERGY STAR Projects		Change 2014 to 2015
	2014	2015	
Bank/Financial Institution	5	5	0
Courthouse	8	8	0
Data Center	6	6	0
Hospital	6	6	0
Hotel	3	3	0
House of Worship	1	1	0
K-12 School	201	205	4
Medical Office	5	5	0
Office	150	155	5
Residence Hall/Dormitory	15	15	0
Retail	98	98	0
Senior Care Community	1	1	1
Supermarket/Grocery	138	178	40
Warehouse	6	6	0