

2016 BUILDING ENERGY BENCHMARKING REPORT



Cook County Government



TABLE OF CONTENTS

Energy Benchmarking at a Glance.....	Page 1
Benchmarking Metrics.....	Page 2
Key Findings.....	Page 3
Overall Energy Performance.....	Page 3
Building Type Overview.....	Page 6
Energy Performance Results.....	Page 8
Energy Mix.....	Page 11
Greenhouse Gas Emissions.....	Page 12
Next Steps.....	Page 15
Future Energy Savings.....	Page 16
<hr/>	
Appendix A: 2015 Energy Benchmarking.....	Page 17
Appendix B: Cook County Building List By Portfolio.....	Page 21
Appendix C: Performance Metrics – Site vs. Source Energy.....	Page 28

ENERGY BENCHMARKING AT-A-GLANCE



169 buildings representing 11 property types within 4 portfolios



Over 16 million gross floor area



2/5 of buildings rank higher than the national average

Cook County is committed to reducing its impact on the environment, contributions to greenhouse gas emissions (GHG), and funds spent on energy in buildings. Effective benchmarking and management saves money, boosts the economy, and helps create healthier, more livable communities.

“I BELIEVE THAT COOK COUNTY SHOULD BE A WORLD-CLASS MODEL OF SUSTAINABILITY. THE PASSAGE AND IMPLEMENTATION OF THE BENCHMARKING ORDINANCE IS A MAJOR STEP TOWARDS REALIZING OUR GOAL.”

PRESIDENT TONI PRECKWINKLE, 2014

BENCHMARKING METRICS

In 2014, the Cook County Board of Commissioners passed the first-ever energy benchmarking ordinance. The Building Energy Benchmarking Ordinance requires the County to capture baseline data, track consumption, set accountability measures, and measure greenhouse gas emissions for Cook County municipal buildings. The Benchmarking Ordinance requires the County to track annual energy and water use of its buildings larger than 35,000 square feet, which account for over 98 percent of the County portfolio. This report covers energy usage during the 2015 calendar year for all County-owned buildings over 35,000 square feet.

The County Building Energy Benchmarking Ordinance identifies the U.S. Environmental Protection Agency (EPA) Portfolio Manager as the required method of benchmarking. Portfolio Manager is a secure online tool that tracks and measures energy and water consumption as well as greenhouse gas emissions for one building or multiple buildings in a portfolio. Energy data has been uploaded into Portfolio Manager for all facilities over 35,000 square feet. In an effort to ensure accuracy in benchmarking figures, the Bureau of Asset Management improved all of the County's Portfolio Manager accounts in 2014 by understanding the associations between utility meters and buildings, upgrading energy management systems, installing sub-meters, and separating space types for mixed-use buildings.

As a result of sub-metering and upgrades to energy management systems (EMS), many buildings improved their Energy Star (ES) scores. By better understanding the existing utility meters and the area they serve at each facility, building performance ratings are more precise. For example, meters that served parking structures were identified and separated out from the overall building data, resulting in significant improvements in energy use intensity (EUI) and improved Energy Star scores. Groups of buildings that were benchmarked as one structure were sub-metered allowing individual ratings and more accurate usage data for each building. In addition to verifying and updating meter information, the Department of Capital Planning worked with Facilities Management, the Sheriff's Department, and the Health and Hospitals System staff to verify the accuracy of building attributes and replace temporary values in all Portfolio Manager accounts to more accurately analyze the building's performance. This data collection initiative was successful as 24 key operating characteristics that contribute to a building's energy usage, such as number of occupants, number of computers, and space types, were verified and updated for all facilities over 35,000 square feet.



KEY FINDINGS

BUILDING SPOTLIGHT



THE 37-STORY GEORGE W. DUNNE ADMINISTRATION BUILDING HAS BEEN AWARDED AN ENERGY STAR SCORE OF **91** FOR OPERATING EFFICIENCY AND HAS BEEN ENERGY STAR CERTIFIED EVERY YEAR SINCE 2008.

OVERALL ENERGY PERFORMANCE

The Energy Star rating system assigns a score 1–100 (with 50 being the median) by comparing it to similar structures nationwide. The scores are normalized for size and adjusted for weather and building usage. Higher scores reflect better performing buildings. Buildings must fall into one of the 18 building type categories in order to be eligible for an Energy Star rating. 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. Of the 169 Cook County buildings benchmarked in this reporting period, 22 are eligible for an Energy Star score. The George Dunne Administration building, Skokie Courthouse, and Rockwell Warehouse scored high enough to be eligible for Energy Star certification. Over 45% of buildings eligible for an Energy Star score performed equal to or better than the national average. Although there is room for improvement in all of the County's buildings, Provident Hospital, Rothstein Core Center, and Englewood Health Center demonstrate the greatest opportunity with Energy Star scores of 1 (Refer to Table 1).

Table 1: Energy Star Scores for Cook County Government Buildings

Facility	Energy Star Score 2013	Energy Star Score 2014	Energy Star Score 2015
George W. Dunne Administration Building	87	89	91
Skokie Courthouse (2nd District)	49	79	84
Rockwell Warehouse	72	74	75
Domestic Violence Courthouse	70	66	72
Rolling Meadows Courthouse (3 rd District)	66	71	69
Whitcomb Building	Not Available	52	59
Juvenile Courthouse	Not Available	55	57
Cicero Records Center	Not Available	63	56
Markham Courthouse (6th District)	52	48	54
Cook County Building	41	53	52
Jefferson Building	Not Available	38	49
Robbins Health Center	52	55	47
Maywood Courthouse (4 th District)	Not Available	31	44
Bridgeview Courthouse (5th District)	57	45	42
Hawthorne Warehouse	45	43	39
Logan Square Health Center	60	66	38
Piszczek TB Clinic	19	23	24
Cottage Grove Health Center	17	19	23
John Stroger Jr. Hospital Campus	21	18	20
Rothstein Core Center	1	1	1
Provident Hospital	16	3	1
Englewood Health Center	1	1	1

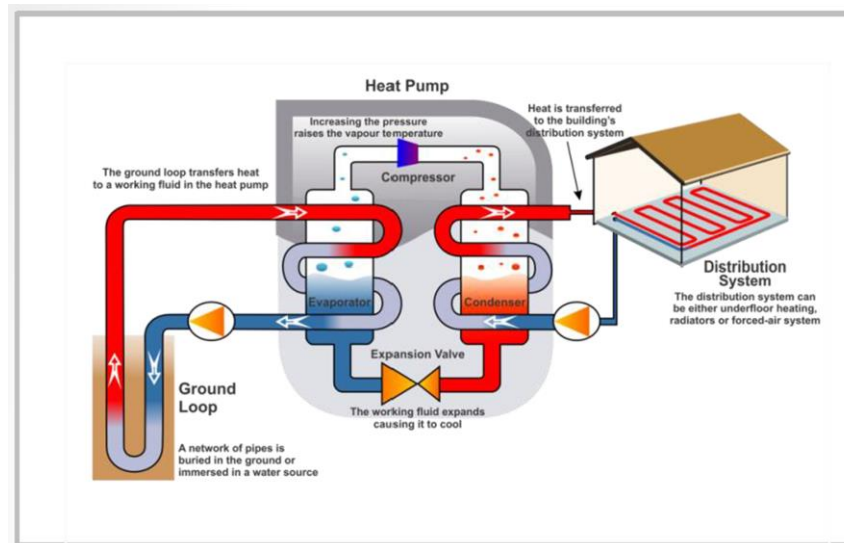
Table 2: Cook County Government Buildings Not Eligible for Energy Star Scores

Facility	Reason Not Eligible
Department of Corrections Campus	Multiple buildings, Non eligible property type
Oak Forest Campus	Multiple buildings on account
Juvenile Center Campus	Multiple buildings on account, Non-eligible property type
Institute of Forensic Medicine	Non-eligible property type
Highway Maintenance Facilities	Non-eligible property type
Parking Garages	Non-eligible property type

BUILDING SPOTLIGHT

SKOKIE COURTHOUSE (2ND DISTRICT)

SUSTAINABILITY EFFORTS AT SKOKIE COURTHOUSE HAVE INCREASED THE BUILDING'S ENERGY STAR SCORE, FROM A SCORE OF 49 IN 2013 TO 84 IN 2015. THE COURTHOUSE IS NOW ELIGIBLE FOR ENERGY STAR CERTIFICATION DUE TO MORE ACCURATE METERING AND COMPLETED ENERGY EFFICIENCY UPGRADES. MORE ENERGY CONSERVATION MEASURES ARE IN PROCESS, INCLUDING THE INSTALLATION OF A GROUND SOURCE HEAT PUMP. ONCE COMPLETE, THE MEASURES WILL REDUCE ELECTRICITY BY 5,063,947 KWH PER YEAR AND WILL PRODUCE A 65% DECLINE IN GREENHOUSE GAS EMISSIONS.



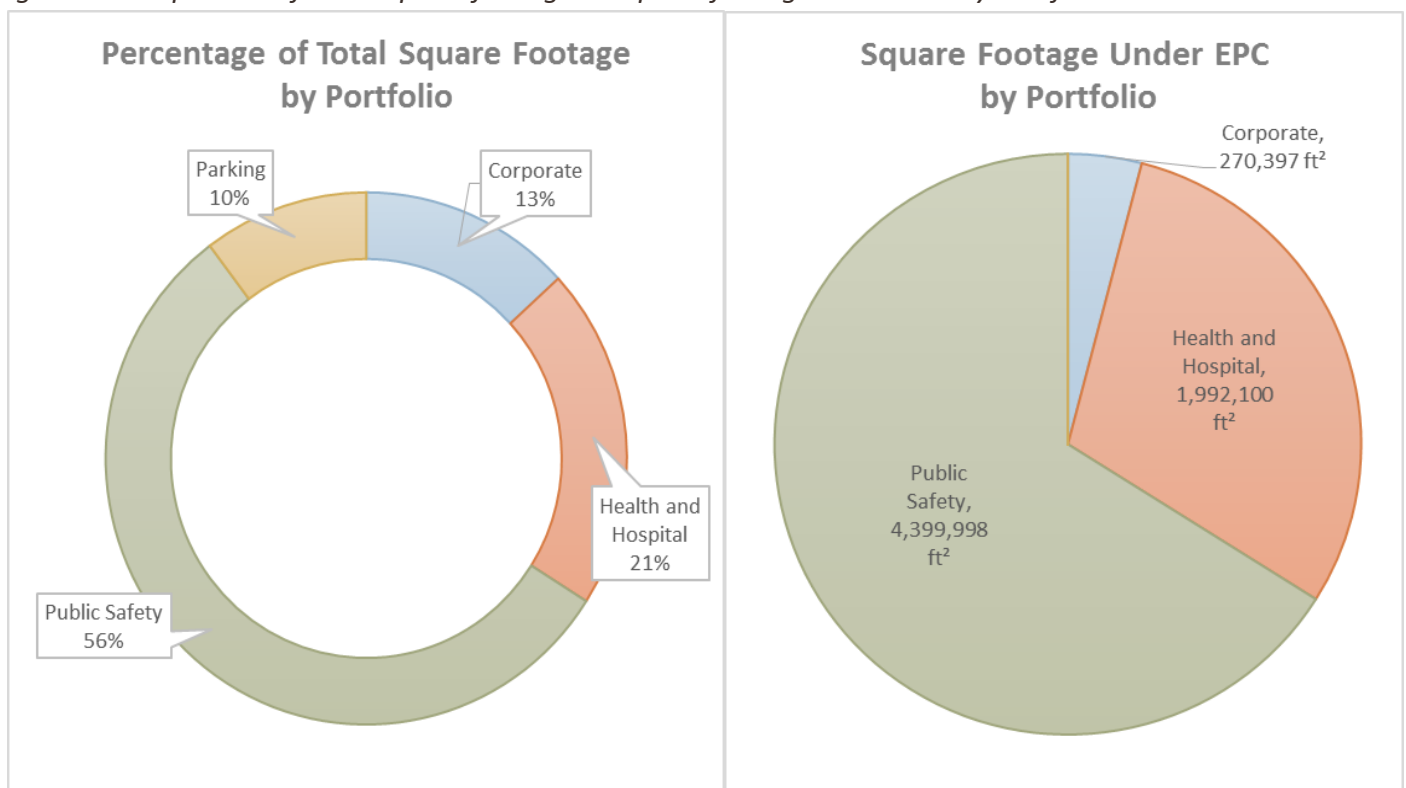
AGING CENTRAL PLANT ELECTRIC BOILERS AND CHILLERS WILL BE REPLACED AT SKOKIE COURTHOUSE WITH A NEW CENTRAL PLANT GEOTHERMAL GROUND SOURCE HEAT PUMP (GSHP). THE PUMP IS A RENEWABLE FORM OF ENERGY, WHICH UTILIZES THE EARTH'S NATURAL HEATING AND COOLING CAPACITY TO REDUCE GREENHOUSE GAS EMISSIONS. DURING THE COOLING SEASON, THE EFFICIENCY OF THE GSHP IS 21% GREATER THAN THE EXISTING CHILLER WHEN IT WAS NEW. THE GSHP WILL BEGIN OPERATION DURING THE 2016 HEATING SEASON AND WILL REMOVE 1,307 METRIC TONS CO₂ AND SAVE \$168,612 ANNUALLY.

BUILDING PORTFOLIO OVERVIEW



2015 benchmarking analyzed 169 buildings categorized into four main portfolios: Public Safety, Corporate, Health and Hospital, and Parking. These buildings represent 98.5% (16.9M square feet) of the total square footage within Cook County Government buildings. The Health and Hospital portfolio demands 40% of the energy (refer to Figure 2) yet makes up only 21% of the square footage (refer to Figure 1). On the other hand, the Public Safety portfolio includes 19 more buildings and 7 million more square feet than the Health and Hospital portfolio, but has an 8% lower overall Energy Use Intensity (EUI) as compared to the Health and Hospital portfolio. To achieve energy savings, nearly 2 million square feet of the Health and Hospital portfolio is under an Energy Performance Contract (EPC), which acts as an alternative financing mechanism to complete sustainability projects. Figure 2 shows the square footage under an EPC for each of the portfolios. The Contract guarantees that the County's sustainability projects will result in energy savings.

Figure 1: Comparison of total square footage to square footage under EPC by Portfolio



As shown in Figures 2 and 3 below, fairly consistent proportions of Source Energy Use and GHG Emissions result within each of the building portfolios, with approximately 11% of use and emissions in the Corporate portfolio, 40% in the Health and Hospital portfolio, 48% in the Public Safety portfolio, and 1% in the Parking portfolio. Refer to Appendix C for explanation of this report’s choice to analyze buildings based on source energy use.

Figure 2: 2015 Source Energy Use by Portfolio

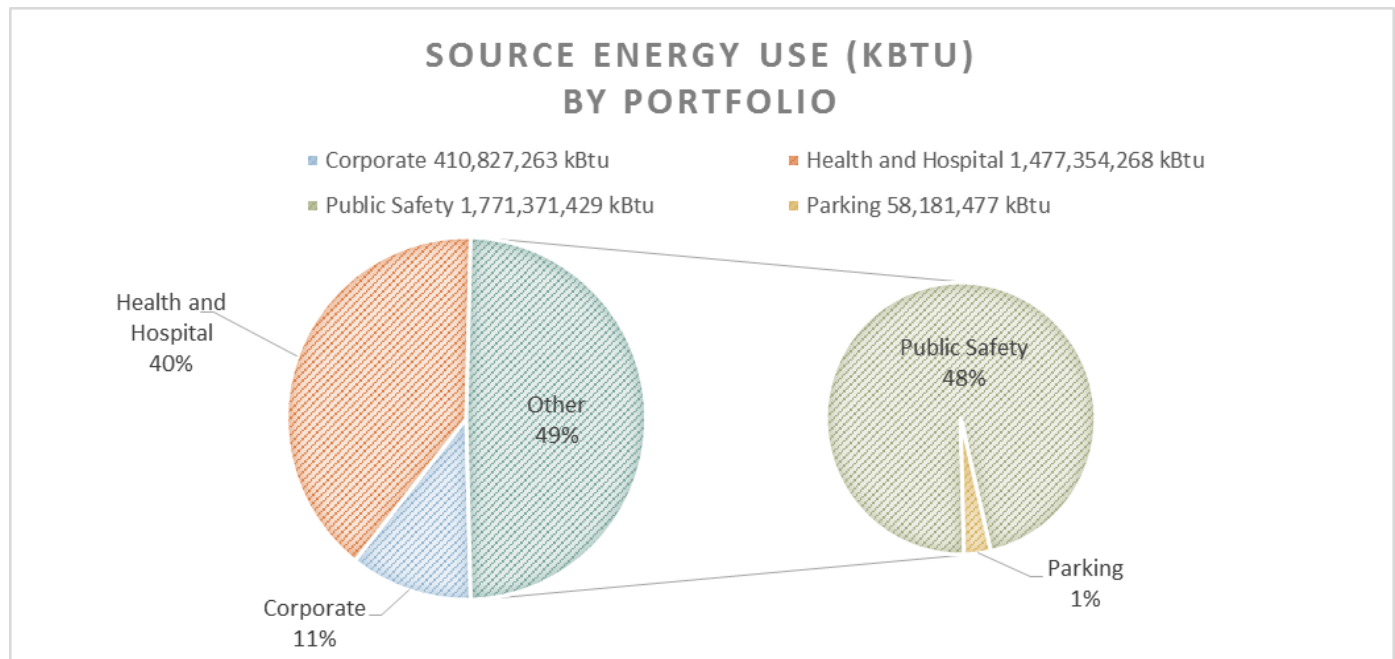
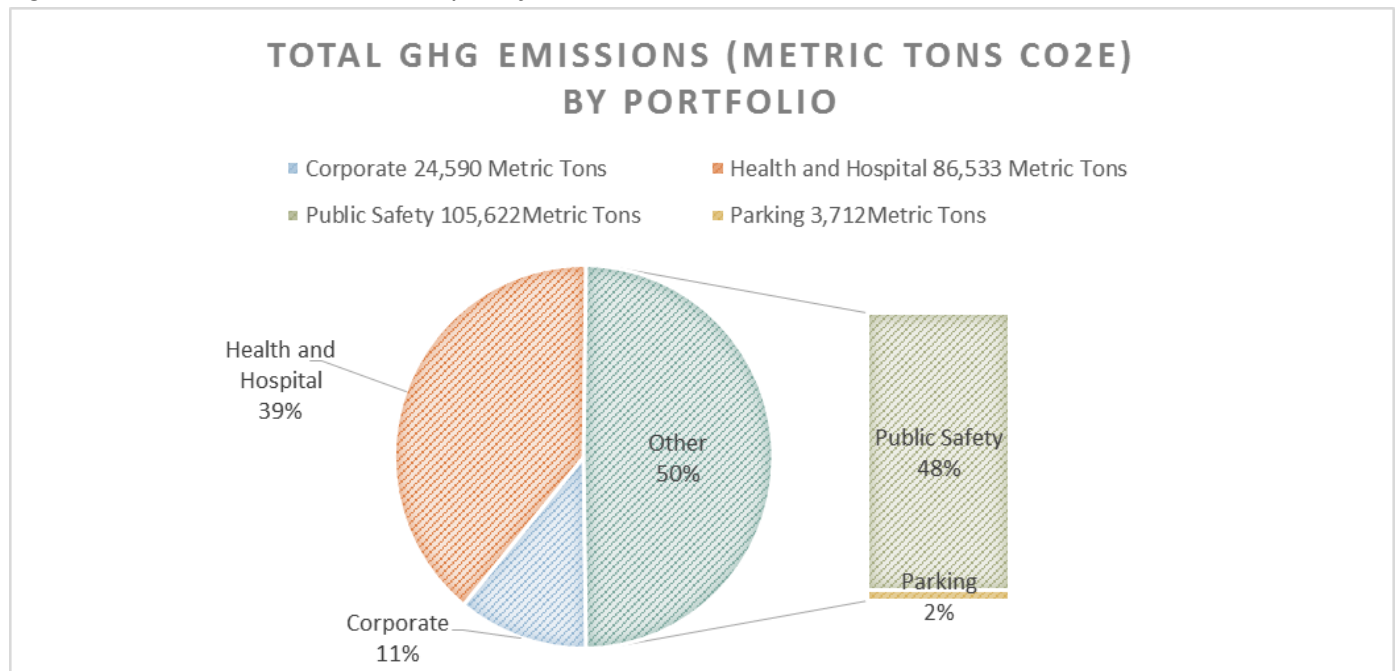


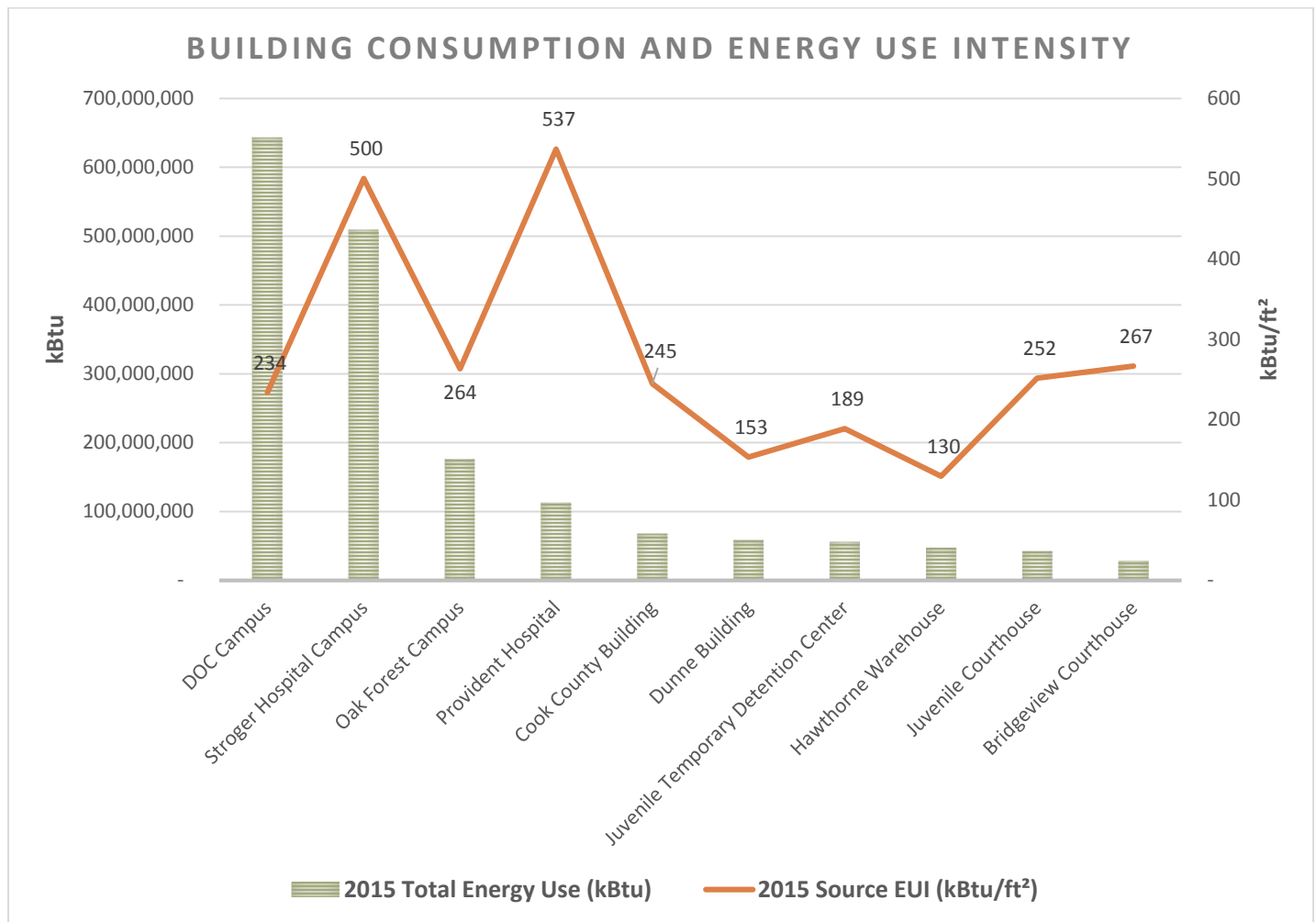
Figure 3: 2015 Total GHG Emissions by Portfolio



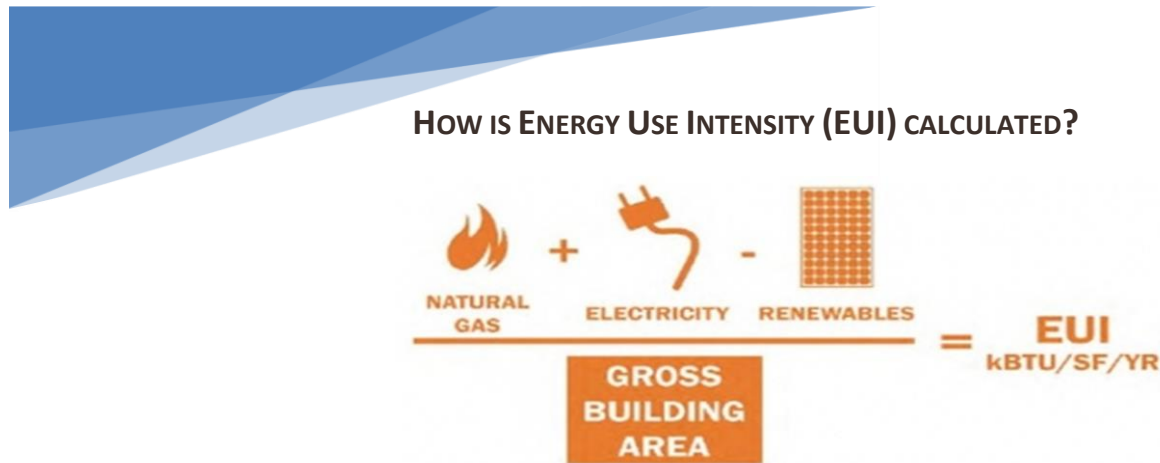
ENERGY PERFORMANCE RESULTS

The 169 buildings benchmarked used over 2 billion kBtus of energy in 2015 and emitted 220,456 metric tons of CO₂. Figure 4 exemplifies the varied relationship between a building's total energy use and its Source Energy Use Intensity (EUI). A higher Source EUI does not always correspond to a higher total energy consumption, as exemplified by Provident Hospital. Additionally, Figure 4 illustrates that a lower total energy use does not always have a lower Source EUI. However, a low EUI generally suggests good energy performance.

Figure 4: 2015 Total Energy Use and Source EUI by Facility



The diagram below explains the inputs that determine EUI. EUI calculates a building's energy use by factoring in its gross floor area; therefore, the EUI expresses a building's energy consumption as a function of its size. This report analyzes source EUI because source energy provides a holistic measure of energy use based on the combination of primary and secondary energy types, as described within Appendix C. Source EUI also forms the basis for the Energy Star score.



SOURCE: AMERICAN INSTITUTE OF ARCHITECTS

The national median EUI is a recommended benchmark metric for all buildings and leveraged to assess opportunities for improvements. Figure 5 compares the EUI of County buildings to the median and reveals that the CORE Center used more than 5 times as much energy per square foot than the median. Nevertheless, the EUI for the CORE Center for instance, decreased by 20% from 2014 to 2015 as a result of the County's Energy Efficiency Capital Improvement Program that targets investments in improving the performance of high EUI buildings.

Figure 5: 2015 Source EUI by Facility vs. the National Median Source EUI for Similar Facilities

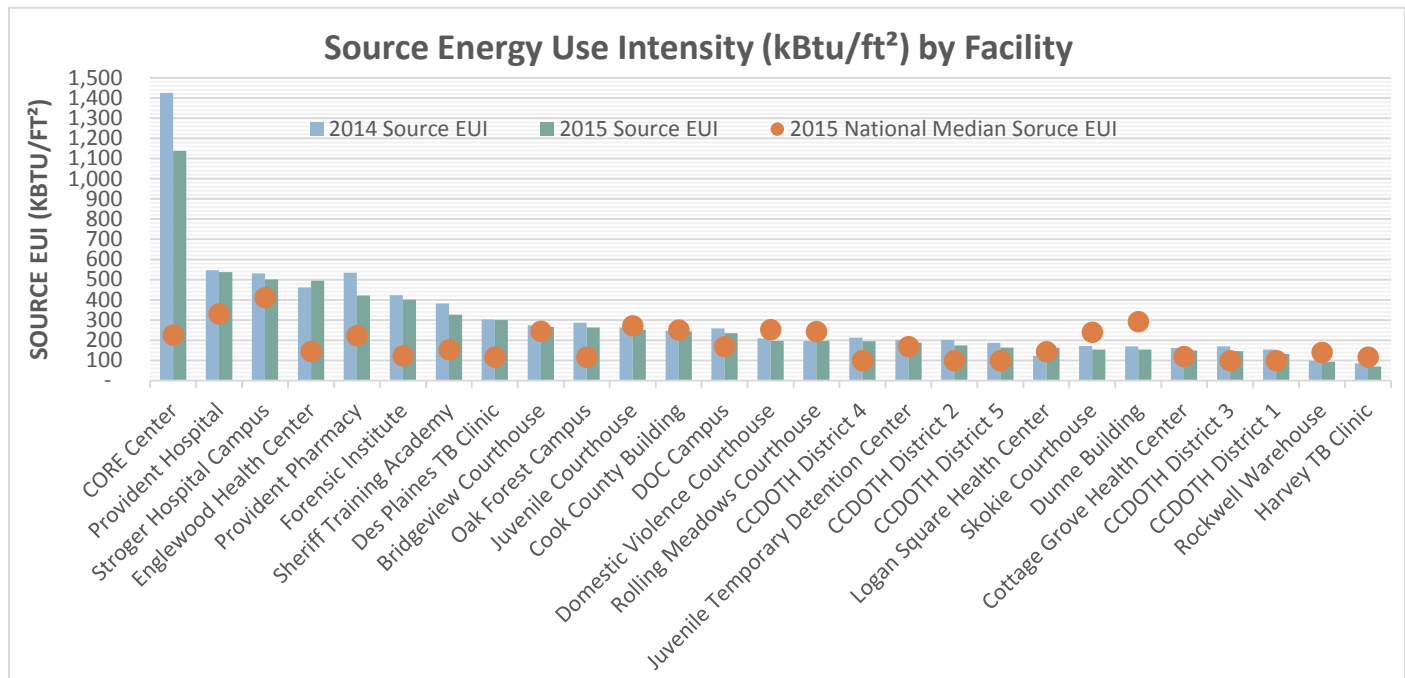
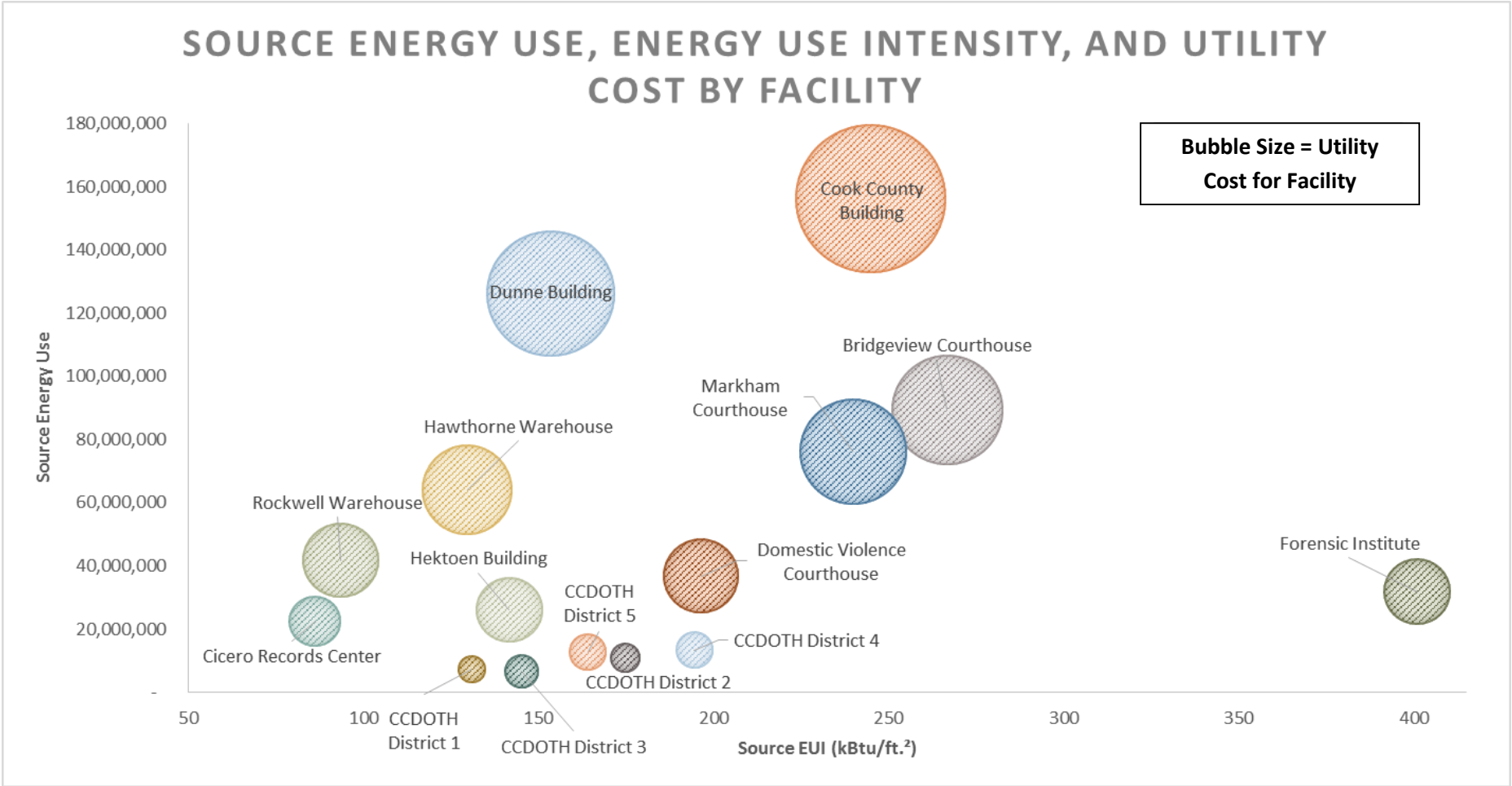


Figure 6 provides an illustration of the relationship between source energy use, source EUI, and the utility cost for 15 Cook County facilities. The largest energy users such as the Department of Corrections and Stroger Hospital were excluded from Figure 6 in order to fully demonstrate the interaction between source energy and utility cost. The high source EUI for the Forensic Institute given its low source energy use and low utility cost reveal the impact of the gross building area input within the EUI calculation.

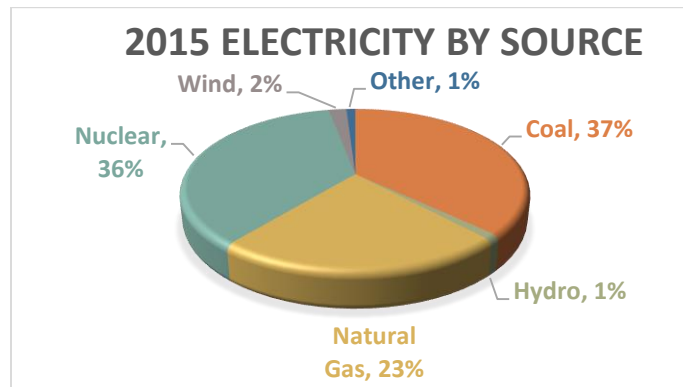
Figure 6: Source Energy Use, Energy Use Intensity, and Utility Cost by Facility



ENERGY MIX

Analyzing different energy sources leads to the understanding of the components within a building's energy consumption. Coal-fired power, nuclear power, and natural gas-fired power comprised the majority of energy supplied to Cook County, as represented within Figure 7.

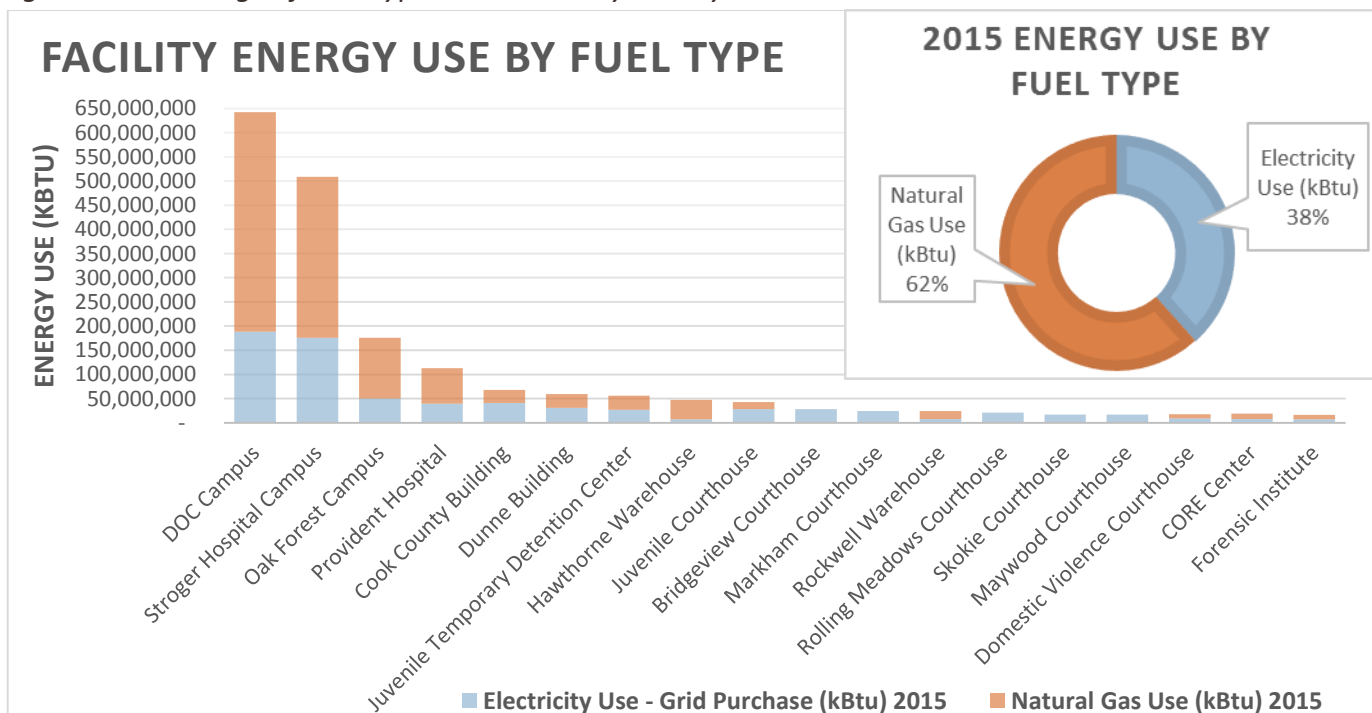
Figure 7: Sources of Electricity Supplied For 2015



Source: Commonwealth Edison Company's Environmental Disclosure Statement

The County heavily relies on natural gas to fuel the buildings, as shown in Figure 8. For example, the Department of Corrections relies on natural gas to provide over 70% of its energy consumption. While the County courthouses did not rely on natural gas in 2015, four out of the five courthouses will be switching to natural gas in 2016.

Figure 8: Percentage of Fuel Type Overall and By Facility in 2015



GREENHOUSE GAS EMISSIONS

Greenhouse gas emissions occur when the carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) gases are released into the atmosphere as a result of the energy consumption at the property.

Cook County Government adopted a goal to reduce 80% of GHG emissions from facilities and operations by 2050. Because building energy use makes up the largest portion of the County's carbon footprint, the County has developed a road map that accomplishes the 2050 goal by decreasing GHG emissions 2% annually from County municipal buildings. The County has decreased emissions by 22% since they were measured in 2010, staying well ahead of its target of a 10% reduction from 2010 through 2015. The benchmarked buildings in 2015 emitted 220,456 metric tons of CO₂. Stroger Hospital and the Department of Correction Campus constitute 54% (Figure 9) of the total GHG emissions, and emit well above the national median for similar facility types (Figure 10).

Figure 9: 2015 Greenhouse Gas Emissions (Metric Tons CO₂e) by Facility

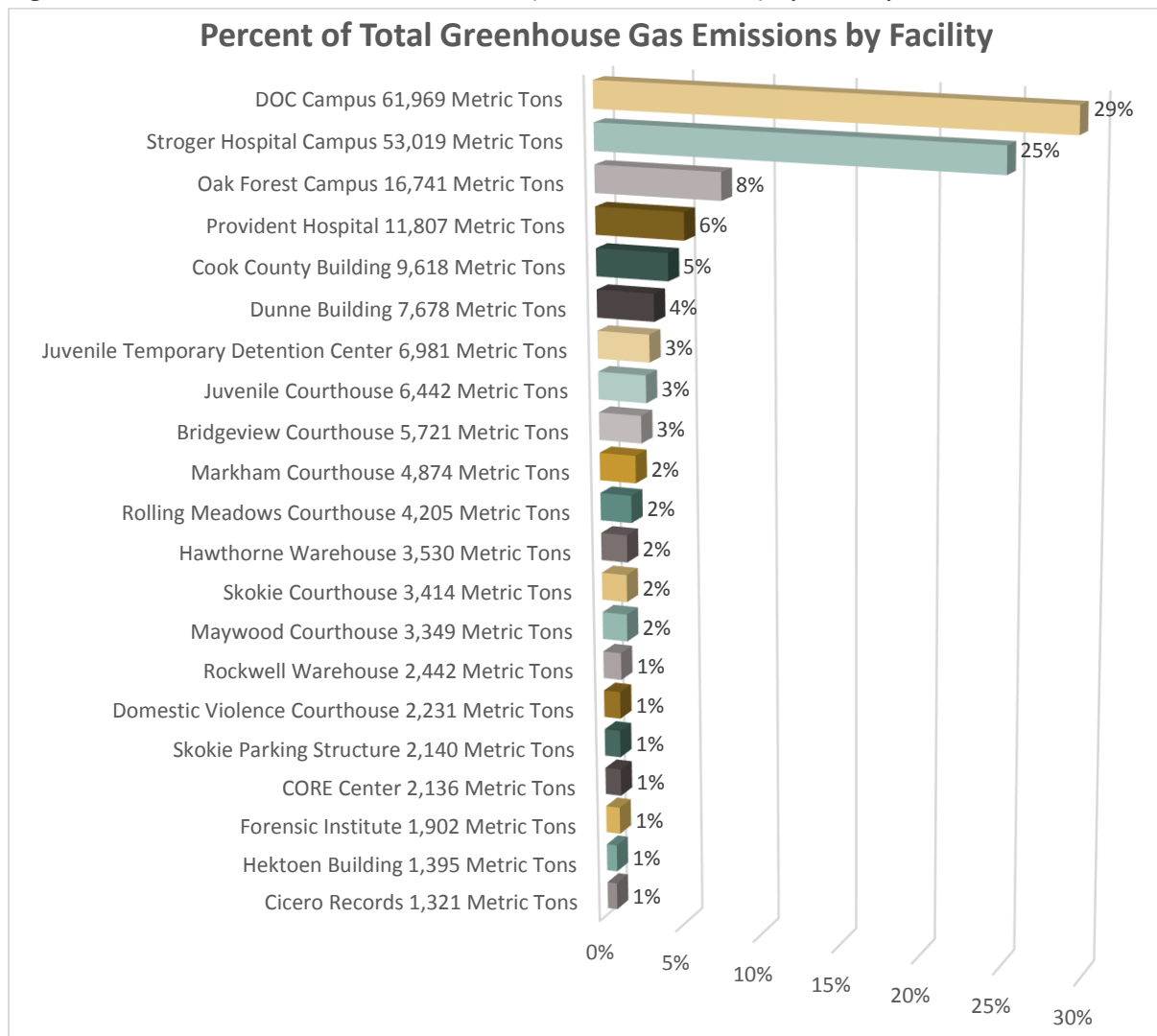
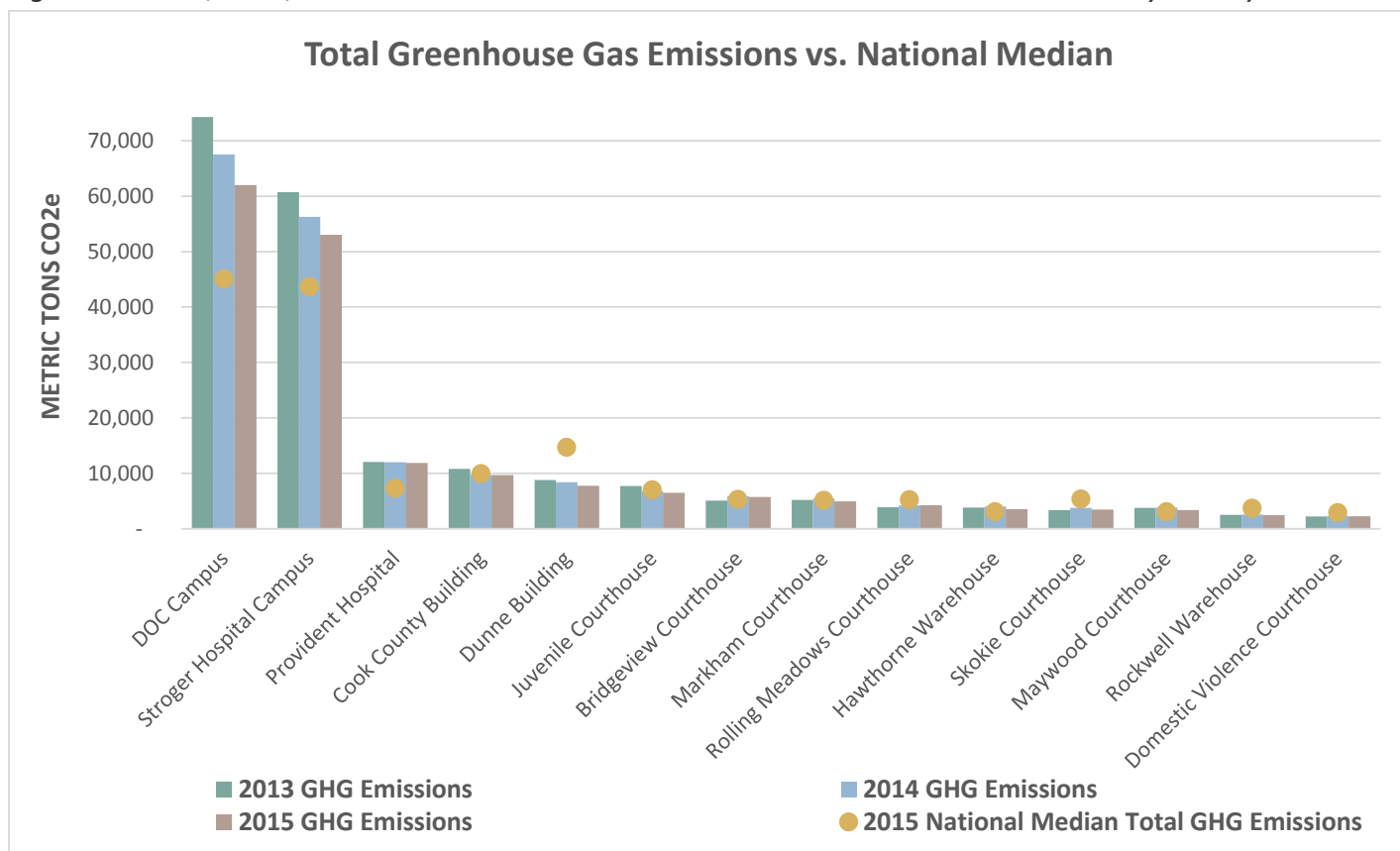
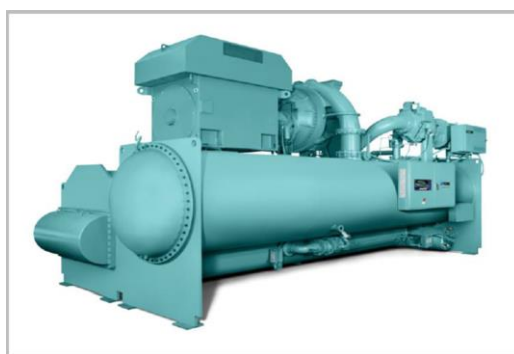


Figure 10: 2013, 2014, 2015 Total Greenhouse Gas Emissions vs. 2015 National Median by Facility



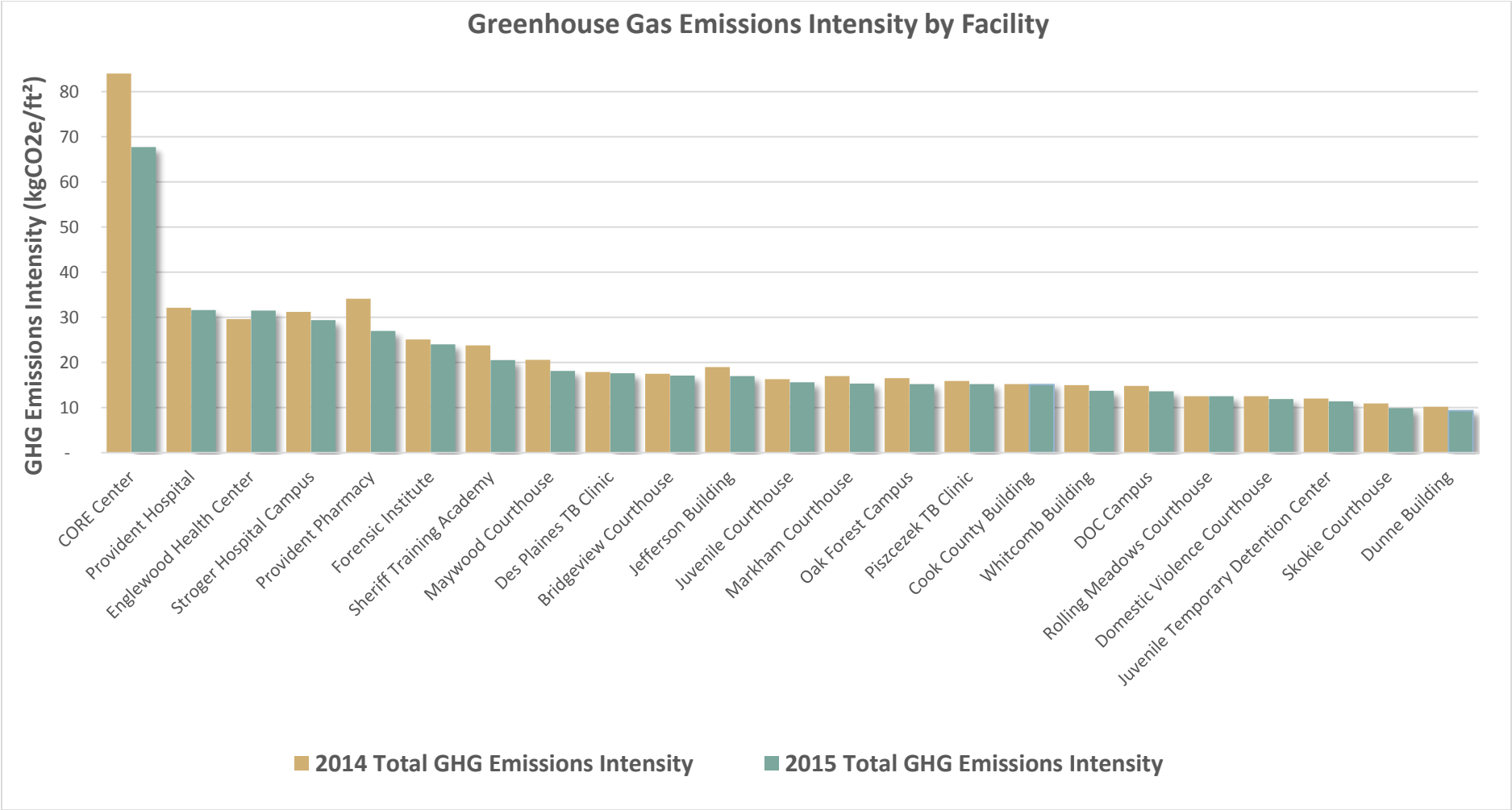
SUSTAINABILITY SPOTLIGHT



AGING ELECTRIC BOILERS AND DOMESTIC HOT WATER HEATER AT ROLLING MEADOWS, BRIDGEVIEW, AND MARKHAM COURTHOUSES WILL BE REPLACED WITH NEW HIGH EFFICIENCY NATURAL GAS-FIRED CONDENSING BOILERS. WITH THE CHANGE IN HEATING FUEL FROM ELECTRICITY TO NATURAL GAS, THERE WILL BE A SIGNIFICANT REDUCTION IN SOURCE GREENHOUSE GAS EMISSIONS.

GHG emissions are expressed in carbon dioxide equivalent (CO₂e), a universal unit of measure that combines the quantity and global warming potential of each greenhouse gas. Emission intensity expresses total emissions on a per square foot basis. Figure 11 shows the emission intensity for the CORE Center, which releases more than double the amount of kgCO₂e/ ft² as compared to the rest of the portfolio. Nevertheless, the CORE Center decreased its total GHG emissions intensity from 84 kgCO₂e/ft² in 2014 to 68 kgCO₂e/ft² in 2015.

Figure 11: 2014 vs. 2015 Greenhouse Gas Emissions Intensity (kgCO₂e/ft²) Comparison



NEXT STEPS

Benchmarking allows facility managers and occupants to better understand their building's energy performance and the impact of capital and operational changes. In an effort to make sure benchmarking figures are as accurate as possible, the Bureau of Asset Management is currently working to:

- Implement a new energy management system
- Continue with the sub-metering of building groups previously benchmarked as one structure, such as separating the courthouse (CCB) and the administration building (CCAB) from the Department of Corrections (DOC) campus account to better analyze the individual building performance and more accurately represent the DOC complex
- Continue prioritizing sustainability initiatives within low-performing portfolios. For instance, none of the Health and Hospital buildings had an Energy Star score above the national median, and the buildings consume 40% of the County's source energy usage.
- Determine separate space types for mixed-use buildings
- Finalize water data collection policy to report building water consumption
- Establish waste baseline and data collection policy to report building waste consumption

DID YOU KNOW?

THE COUNTY CLOSED OUT CONSTRUCTION ON THE ENERGY PERFORMANCE CONTRACTS AT THE HOSPITAL AT THE END OF 2014 AND AT THE JAIL CAMPUS IN THE FIRST HALF OF 2015.

THE ENERGY PERFORMANCE MEASURES PUT IN PLACE THROUGH THESE CONTRACTS WILL GENERATE SAVINGS FOR THE NEXT 20 YEARS.

Beyond benchmarking, the County is undertaking the following sustainability projects that will improve building operations and reduce energy consumption:

- Develop a Carbon Reduction Plan to identify strategies to reduce building consumption
- Participate in a Demand Response Load Curtailment Program
- Consolidate inefficient buildings into new high efficient structure- Stroger Hospital Redevelopment
- Carry out demolition of Department of Corrections Divisions 1, 17, and 3
- Redevelop Provident and Oak Forest Hospitals

FUTURE ENERGY SAVINGS

Through the Energy Efficiency Capital Improvement Program, Cook County has begun over \$44 million in building improvement projects to make large-scale energy efficiency upgrades at 11 County facilities. Upgrades are paid for through the savings they generate. These energy efficiency projects will reduce greenhouse gas emissions, improve occupant comfort, and upgrade lighting infrastructure, aging mechanical systems, and temperature controls. Participating facilities include Bridgeview, Skokie, Markham, and Rolling Meadows Courthouses, five district highway maintenance facilities, and the County and Dunne Buildings. The courthouses are projected to reduce energy consumption by 53%, the corporate buildings by 30%, and highway facilities by over 40%. To support these energy conservation efforts, the County implemented an employee engagement initiative. The Energy Conservation Through Behavior Change (ECTBC) initiative empowers employees to incorporate sustainability activities into their daily roles at work and home. As a result, the County will further reduce its energy consumption and realize larger energy savings.



For further information on the County's sustainability initiatives, visit <https://www.cookcountyl.gov/conserves> or <https://www.cookcountyl.gov/sustainability>.

APPENDIX A: 2015 ENERGY BENCHMARKING

The following pages summarize the 2015 benchmarking results for each building. Data has been downloaded from Portfolio Manager, a secure online tool that tracks and measures energy consumption and greenhouse gas emissions for one building or multiple buildings in a portfolio.

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft²)	Source EUI (kBtu/ft²)	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO2e)	GHG Emissions Intensity (kgCO2e/ft²)
George W Dunne Office Building	Office	1965	1	91	71.7	153.4	126,222,117	59,023,016	9,009,567	282,824	7,678.4	9.3
Cook County Building	Office	1906	1	52	106.3	244.7	156,293,137	67,883,470	11,921,824	272,062	9,617.6	15.1
Rockwell Warehouse	Non-Refrigerated Warehouse	1927	1	74	54.3	93.4	41,794,051	24,274,780	2,286,544	164,731	2,442.4	5.5
Hawthorne Warehouse	Non-Refrigerated Warehouse	1905	1	39	95.8	129.6	64,086,464	47,402,733	2,007,212	405,541	3,530.0	7.1
Cicero Records Center	Non-Refrigerated Warehouse	2008	1	54	48.1	86.0	22,431,495	12,547,282	1,298,099	81,182	1,321.1	5.1
2nd District Courthouse Complex - Skokie	Courthouse	1980	1	46	80.0	251.1	86,804,946	27,644,887	8,102,252	N/A	5,554.2	16.1
2nd District Courthouse (Skokie)	Courthouse	1980	1	83	49.1	154.3	53,353,409	16,991,532	4,979,932	N/A	3,413.8	9.9
2nd District Courthouse (Skokie) Parking Structure	Parking	2002	1	N/A	22.0	69.2	33,451,536	10,653,356	3,122,320	N/A	2,140.4	4.4
3rd District Courthouse Complex - Rolling Meadows	Courthouse	1987	1	57	71.4	224.2	75,138,488	23,929,455	7,013,321	N/A	4,807.7	14.3
3rd District Courthouse (Rolling Meadows)	Courthouse	1987	1	69	62.4	196.0	65,714,109	20,928,060	6,133,663	N/A	4,204.7	12.5

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft²)	Source EUI (kBtu/ft²)	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO2e)	GHG Emissions Intensity (kgCO2e/ft²)
3rd District Courthouse (Rolling Meadows) Parking Structure	Parking	1987	1	N/A	5.4	17.0	9,424,383	3,001,396	879,659	N/A	603.0	1.1
4th District Courthouse Campus - Maywood	Courthouse	1975	4	N/A	90.0	277.8	76,958,181	24,941,790	7,119,440	6,503	4,915.0	17.7
Jefferson Building	Office	1965	1	46	84.7	265.9	12,565,658	4,001,802	1,172,861	N/A	804.0	17.0
Whitcomb Building	Office	1965	1	58	68.0	213.5	4,956,678	1,578,560	462,649	N/A	317.2	13.7
Sheriff Training Academy	Public Services	1967	1	N/A	124.2	327.3	7,097,117	2,693,044	598,706	6,503	445.0	20.5
4th District Courthouse (Maywood)	Courthouse	1975	1	40	90.2	283.2	52,338,726	16,668,384	4,885,223	N/A	3,348.9	18.1
5th District Courthouse - Bridgeview	Courthouse	1989	1	42	84.9	266.7	89,404,650	28,472,818	8,344,905	N/A	5,720.5	17.1
Domestic Violence Courthouse	Courthouse	1890	1	71	93.3	196.4	36,774,448	17,468,103	2,584,873	86,485	2,231.3	11.9
6th District Courthouse - Markham	Courthouse	1980	1	54	76.4	239.8	76,177,055	24,260,208	7,110,260	N/A	4,874.2	15.3
Juvenile Temporary Detention Center Campus	Prison/ Incarceration	1973	3	N/A	98.7	222.4	227,682,071	101,016,491	17,054,183	428,276	13,965.7	13.6
Juvenile Temporary Detention Center	Prison/ Incarceration	1974	1	N/A	91.2	188.8	115,378,663	55,734,533	7,973,182	285,300	6,981.1	11.4
Juvenile Courthouse	Courthouse	1993	1	57	103.2	251.6	103,824,272	42,581,596	8,289,570	142,976	6,442.0	15.6
Stein Institute of Forensic Medicine	Other - Public Services	1982	0	N/A	207.6	401.0	31,822,862	16,479,797	2,036,027	95,329	1,902.1	24.0
JTDC Parking Structure	Parking	1993	1	N/A	3.4	10.7	8,479,117	2,700,356	791,429	N/A	542.5	0.7
Stein Institute of Forensic Medicine	Public Services	1982	0	N/A	207.6	401.0	31,822,862	16,479,797	2,036,027	95,329	1,902.1	24.0

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft²)	Source EUI (kBtu/ft²)	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO2e)	GHG Emissions Intensity (kgCO2e/ft²)
Cook County Department of Corrections Campus	Prison/ Incarceration	1926	57	N/A	140.6	233.8	1,068,360,551	642,566,414	55,204,228	4,542,096	61,968.5	13.6
CCDOTH Maintenance Facility District 1	Repair Services	1954	4	N/A	100.1	130.9	7,403,318	5,662,048	204,481	49,644	403.9	7.1
CCDOTH Maintenance Facility District 3	Repair Services	1950	3	N/A	91.5	145.1	6,719,650	4,239,440	318,078	31,542	385.6	8.3
CCDOTH Maintenance Facility District 2	Repair Services	1990	4	N/A	129.6	174.6	10,809,108	8,025,793	334,034	68,861	594.7	9.6
CCDOTH Maintenance Facility District 4	Repair Services	1969	5	N/A	149.9	194.4	13,308,282	10,262,052	355,223	90,500	724.2	10.6
CCDOTH Maintenance Facility District 5	Repair Services	1987	3	N/A	116.6	164.0	12,810,745	9,108,546	455,299	75,551	713.4	9.1
Oak Forest Hospital Campus	Medical Office	1910	52	N/A	160.3	263.5	289,343,417	176,020,018	14,657,301	1,260,093	16,740.7	15.2
Rothstein Core Center	Medical Office	1998	1	1	607.1	1,138.9	35,931,769	19,153,471	2,218,545	115,838	2,136.1	67.7
Provident Hospital Campus	Hospital	1981	2	1	307.5	552.0	206,432,156	115,000,102	12,015,296	740,039	12,167.4	32.5
Provident Hospital	Hospital	1981	2	1	302.7	536.9	200,806,069	113,208,354	11,490,165	740,039	11,807.4	31.6
Stroger Hospital Campus	Hospital	2002	4	20	282.3	500.4	901,817,182	508,794,417	51,546,610	3,329,174	53,018.8	29.4
Provident Hospital Parking Structure	Parking	1991	1	N/A	7.3	22.9	5,626,070	1,791,742	525,130	N/A	360.0	1.5
Hektoen Building	Laboratory	1964	2	N/A	115.9	141.5	26,117,572	21,380,022	514,445	196,247	1,395.0	7.6
Cottage Grove Health Center	Medical Office	2000	0	23	47.3	148.5	1,985,540	632,338	185,328	N/A	127.0	9.5
Piszczek TB Clinic	Medical Office	1957	1	24	165.8	264.9	5,125,734	3,207,757	246,469	23,668	294.7	15.2
Des Plaines TB Clinic	Medical Office	1991	1	N/A	168.4	299.1	744,535	419,064	42,703	2,734	43.8	17.6
Logan Square Health Center	Medical Office	1962	1	38	75.0	161.0	1,314,911	612,628	94,186	2,913	80.0	9.8
Englewood Health Center	Medical Office	2000	1	1	165.7	495.0	5,330,612	1,784,602	484,748	1,306	339.2	31.5

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft ²)	Source EUI (kBtu/ft ²)	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO ₂ e)	GHG Emissions Intensity (kgCO ₂ e/ft ²)
Harvey TB Clinic	Medical Office	1962	1	N/A	55.6	69.0	187,774	151,492	4,026	1,378	10.1	3.7
Robbins Health Center	Medical Office	2000	1	47	44.4	139.3	1,992,977	634,706	186,022	N/A	127.5	8.9
Cicero Health Center	Medical Office	1999	1	37	57.7	181.1	1,541,175	490,820	143,851	N/A	98.6	11.6
Prieto Health Center	Medical Office	1994	1	60	80.6	137.8	2,338,150	1,368,269	126,414	9,369	136.4	8.0
Provident Pharmacy	Medical Office	2005	1	2	134.8	422.2	2,776,852	886,620	258,853	34	177.6	27.0

APPENDIX B: COOK COUNTY BUILDING LIST BY PORTFOLIO

CORPORATE FACILITIES (CF)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year Built	GSF
CF.001.001	County Building	118 N. Clark St.	Chicago	60602	Public	Multiple	Owned/	1/1/1906	638,592
CF.002.001	George W. Dunne Office Building- Main	69 W. Washington St.	Chicago	60602	Admin	Multiple	Owned	1/1/1964	787,888
CF.002.002	George W. Dunne Office Building- Generator	69 W. Washington St.	Chicago	60602	Admin	Multiple	Owned	1/1/2002	896
CF.003.001	CCHD Maintenance Fac. Dist. 1 - Bldg A	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1/1/1954	16,159
CF.003.002	CCHD Maintenance Fac. Dist. 1 - Bldg B	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1/1/1986	24,350
CF.003.003	CCHD Maintenance Fac. Dist. 1 - Bldg C	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1/1/1995	8,241
CF.003.004	CCHD Maintenance Fac. Dist. 1 - Bldg D	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1/1/1988	7,818
CF.004.001	CCHD Maintenance Fac. Dist. 2 - Bldg A	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	1/1/2000	20,753
CF.004.002	CCHD Maintenance Fac. Dist. 2 - Bldg B	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	1/1/2000	18,688
CF.004.003	CCHD Maintenance Fac. Dist. 2 - Bldg C	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	1/1/1990	14,574
CF.004.004	CCHD Maintenance Fac. Dist. 2 - Bldg D	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	1/1/2000	7,896
CF.006.001	CCHD Maintenance Fac. Dist. 4 - Bldg A	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1/1/1969	17,582
CF.006.002	CCHD Maintenance Fac. Dist. 4 - Bldg B	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1/1/1975	4,000
CF.006.003	CCHD Maintenance Fac. Dist. 4 - Bldg C	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1/1/1975	18,997
CF.006.004	CCHD Maintenance Fac. Dist. 4 - Bldg D	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1/1/1984	7,708
CF.006.005	CCHD Maintenance Fac. Dist. 4 - Bldg E	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1/1/2007	20,157
CF.007.001	CCHD Maintenance Fac. Dist. 5 - Bldg A	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	1/1/2002	24,794
CF.007.002	CCHD Maintenance Fac. Dist. 5 - Bldg B	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	1/1/1987	45,636
CF.007.003	CCHD Maintenance Fac. Dist. 5 - Bldg C	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	1/1/2002	7,662
CF.008.001 and 2	Rockwell Warehouse	2323 S. Rockwell St.	Chicago	60608	Storage	Multiple	Owned	1/1/1979	452,206
CF.009.001 and 2	Hawthorne Warehouse	4545 W. Cermak Rd.	Chicago	60623	Storage	Multiple	Owned	1/1/1905	494,672
CF.010.001	Public Administrator Warehouse	7232 N. Western Ave.	Chicago	60645	Storage/ Public	Administrator	Leased		7,709

PUBLIC SAFETY (PS)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year	GSF
PS.011.000	DOC Site	26th/S. California	Chicago	60608	Courts	Sheriff	Owned		
PS.011.001	Criminal Courts (26th/California)	2650 S. California Ave.	Chicago	60608	Courts	Circuit Court	Owned	1/1/1927	324438
PS.011.002	Criminal Court Admin. Building	2650 S. California Ave.	Chicago	60608	Admin	Multiple	Owned	1/1/1978	472493
PS.011.003	RTU-RCDC	2750 S. California Ave.	Chicago	60608	Detention		Owned	1/1/2013	283401
PS.011.004	DOC Central Chiller Plant	3045 S. Sacramento Ave.	Chicago	60608	Utility	Multiple	Owned	1/1/1990	18225
PS.011.005	DOC Cermak Hospital	2800 S. California Ave.	Chicago	60608	Medical	CCHHS	Owned	1/1/1998	161590
PS.011.006	DOC Div. II, Dorm I	2809 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1958	54484
PS.011.007	DOC Div. II, Dorm II	2807 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1955	54741
PS.011.008	DOC Div. II, Dorm III	2805 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1955	54717
PS.011.009	DOC Div. II, Dorm IV	2803 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1972	45203
PS.011.010	DOC Division I	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	344268
PS.011.011	DOC Division III	2750 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1973	81511
PS.011.012	DOC Division III Annex (RTU)	2811 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1985	78023
PS.011.013	DOC Division IV	2649 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	122362
PS.011.014	DOC Division IX	2834 W. 31st St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1990	311786
PS.011.015	DOC Division V	2708 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1978	364560
PS.011.016	DOC Division VI	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1978	264238
PS.011.017	DOC Division VII-Div I Annex	2604 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	68088
PS.011.018	DOC Division X	2950 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1991	211562
PS.011.019	DOC Division XI	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1995	630380
PS.011.020	DOC Division XVII (Old Cermak Hospital)	2724 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1958	54309
PS.011.021A	DOC Guard House A	2600 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	234
PS.011.021B	DOC Guard House B	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	2064
PS.011.021C	DOC Guard House C	2600 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	58
PS.011.021D	DOC Guard House D	2950 S. California Ave	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	249
PS.011.021E	DOC Guard House E	3000 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	167
PS.011.021F	DOC Guard House F	3026 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1970	1392
PS.011.021G	DOC Guard House G	2828 W. 31st Street	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	410
PS.011.021H	DOC Guard House H	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1956	156
PS.011.021I	DOC Guard House I	2801 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	234
PS.011.021J	DOC Guard House J	2717 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	234
PS.011.021K	DOC Guard House K	2950 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1999	375

PUBLIC SAFETY (PS)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year	GSF
PS.011.022A	DOC Guard Tower A	26th - Adjacent to Div. I Annex	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	372
PS.011.022B	DOC Guard Tower B	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	347
PS.011.022C	DOC Guard Tower C	Inside Campus	Chicago	60608	Detention	Sheriff	Owned	1/1/1991	272
PS.011.022D	DOC Guard Tower D	California - b/w Div III & Div X	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022E	DOC Guard Tower E	Inside Campus - b/w Old RTU	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022F	DOC Guard Tower F	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022G	DOC Guard Tower G	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1955	284
PS.011.022H	DOC Guard Tower H	Sacramento - adj. to Div VI	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022I	DOC Guard Tower I	2801 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022J	DOC Guard Tower J	2717 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	224
PS.011.022K	DOC Guard Tower K	Sacramento - Adj. to Div I yard	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	375
PS.011.022L	DOC Guard Tower L	Corner of Sacramento & 26th	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	341
PS.011.022	DOC Guard Tower M	26th - NW corner of Div I	Chicago	60608	Detention	Sheriff	Owned	1/1/1929	332
PS.011.022N	DOC Guard Tower N	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1999	402
PS.011.022O	DOC Guard Tower O	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1999	402
PS.011.022P	DOC Guard Tower P	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1999	402
PS.011.022Q	DOC Guard Tower Q	3015 S. California Ave.	Chicago	60608		Sheriff	Owned	1/1/1999	402
PS.011.023	DOC Gym (Div IV)	2649 S. Sacramento Ave	Chicago	60608	Detention	Sheriff	Owned	1/1/1976	31292
PS.011.024	DOC Kitchen	2735 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1994	95904
PS.011.025A	DOC Powerhouse	3045 S. Sacramento Ave.	Chicago	60608	Utility	Sheriff	Owned	1/1/1957	22622
PS.011.025B	DOC Powerhouse	3045 S. Sacramento Ave.	Chicago	60608	Utility	Sheriff	Owned	1/1/1992	3716
PS.011.026	DOC South Campus Building 1	3026 S. California Ave.	Chicago	60608	Admin	Sheriff	Owned	1/1/1910	40966
PS.011.027	DOC South Campus Building 2	3036 S. California Ave.	Chicago	60608	Admin	Sheriff	Owned	1/1/1910	89011
PS.011.028	DOC South Campus Building 3	3026 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1/1/1910	74186
PS.011.029	DOC South Campus Building 4	2828 W. 31st St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1910	49346
PS.011.030	DOC South Campus Building 5	2840 W. 31st St.	Chicago	60608	Admin	Sheriff	Owned	1/1/1910	34114
PS.011.031	Boot Camp Building #1	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	8432
PS.011.032	Boot Camp Building #2	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	8432
PS.011.033	Boot Camp Building #3	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	8432
PS.011.034	Boot Camp Building #4	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	8432
PS.011.035	Boot Camp Building #5	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	5429
PS.011.036	Boot Camp Building #6	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	7707

PUBLIC SAFETY (PS)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year	GSF
PS.011.037	Boot Camp Building #7	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	10400
PS.011.038	Boot Camp Building #8	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	6814
PS.011.039	Boot Camp Building #9	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	6267
PS.011.040	Boot Camp Building #10	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1/1/1996	1847
PS.011.041	DOC Tunnels	2700 S. California Ave.	Chicago	60608	Utility	Sheriff	Owned	1/1/1955	45600
PS.011.044	DOC Parking Structure	26th/California	Chicago	60608	Parking	Sheriff	Owned	1/1/1976	463597
PS.013.001	Domestic Violence Courthouse	555 W. Harrison St.	Chicago	60607	Courts	Circuit Court	Owned		187,268
PS.014.001	Juvenile West (Courthouse)	1100 S. Hamilton Ave.	Chicago	60612	Courts	Circuit Court	Owned	1/1/1993	412,596
PS.015.001	Markham Courthouse (6 th Dist.)	16501 S. Kedzie Ave.	Markham	60428	Courts	Circuit Court	Owned	1/1/1977	317,652
PS.029.001	Jefferson Building	1401 Maybrook Dr.	Maywood	60153	Sheriff	Multiple	Owned	1/1/1965	47,254
PS.030.001	Sheriff Training Academy	1401 Maybrook Dr.	Maywood	60153	Police	Sheriff	Owned	1/1/1967	21,687
PS.031.001	Whitcomb Building	1311 Maybrook Dr.	Maywood	60153	Admin	Multiple	Owned	1/1/1965	23,217
PS.016.001	Maywood Courthouse (4th Dist.)	1500 Maybrook Dr.	Maywood	60153	Courts	Circuit Court	Owned	1/1/1975	184,841
PS.017.001	Rolling Meadows Courthouse (3rd District)	2121 Euclid Ave.	Rolling	60008	Courts	Circuit Court	Owned	1/1/1987	335,205
PS.017.002	Rolling Meadows Courthouse Parking Structure	2121 Euclid Ave.	Rolling	60008	Parking	Circuit Court	Owned	1/1/1987	554,767
PS.018.001	Skokie Courthouse (2nd District)	5600 Old Orchard Rd.	Skokie	60077	Courts	Circuit Court	Owned	1/1/1980	345,743
PS.018.002	Skokie Courthouse (2nd Dist) Parking Structure	5600 Old Orchard Rd.	Skokie	60077	Parking	Circuit Court	Owned	1/1/2002	483,451
PS.022.001	Bridgeview Courthouse (5th Dist.)	10220 S. 76th Ave.	Bridgeview	60455	Courts	Circuit Court	Owned	1/1/1989	335,205
PS.028.001	Juvenile Temp. Detention Center	1100 S. Hamilton Ave.	Chicago	60612	Detention	Circuit Court	Owned	1/1/1974	611,255
PS.028.002	JTDC Parking Structure	1101 S. Hamilton Ave.	Chicago	60612	Parking	Circuit Court	Owned	1/1/1993	788,777
PS.096.001	Clerk of the Circuit Ct. Warehouse	1330 S. 54th Avenue	Cicero	60804	Storage	Circuit Court	Owned	2009	260,725
CF.005.001	CCHD Maintenance Fac. Dist. 3 - Bldg A	901 W. 26th St.	LaGrange	60526	Garage	Sheriff	Owned	1/1/1950	24,469
CF.005.002	CCHD Maintenance Fac. Dist. 3 - Bldg B	901 W. 26th St.	LaGrange	60526	Garage	Sheriff	Owned	1/1/1950	19,823
CF.005.003	CCHD Maintenance Fac. Dist. 3 - Bldg C	901 W. 26th St.	LaGrange	60526	Garage	Sheriff	Owned	1/1/1985	2,031

HEALTH & HOSPITAL (HH)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year Built	GSF
HH.046.002	OFH Administration Building, Floors 1,2,3	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1910	16,454
HH.046.003	OFH Brick Storage	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1910	793
HH.046.004	OFH Building A	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1910	26,906
HH.046.005	OFH Building B	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1910	115,891
HH.046.006	OFH Building C	15900 S. Cicero Ave.	Oak Forest	60452	Vacant	CCHHS	Owned	1/1/1910	114,413
HH.046.007	OFH Building D	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1910	25,382
HH.046.008	OFH Building E, New	15900 S. Cicero Ave.	Oak Forest	60452	Pharmacy	CCHHS	Owned	1/1/1991	121,153
HH.046.009	OFH Building E, Old	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1910	29,620
HH.046.010	OFH Building F	15900 S. Cicero Ave.	Oak Forest	60452	Pharmacy	CCHHS	Owned	1/1/1910	60,326
HH.046.011	OFH Building H	15900 S. Cicero Ave.	Oak Forest	60452	Pharmacy	CCHHS	Owned	1/1/1910	64,940
HH.046.012	OFH Building J	15900 S. Cicero Ave.	Oak Forest	60452	Pharmacy	CCHHS	Owned	1/1/1958	79,845
HH.046.013	OFH Catholic Chapel & Offices	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	11,442
HH.046.016	OFH Comfort Station	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	1,064
HH.046.017	OFH Connecting Corridors (1st & 2nd Flr)	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	47,832
HH.046.019	OFH County Store	15900 S. Cicero Ave.	Oak Forest	60452	Vacant	CCHHS	Owned	1/1/1948	2,995
HH.046.020	OFH Dietary Building	15900 S. Cicero Ave.	Oak Forest	60452	Dietary	CCHHS	Owned	1/1/1910	19,776
HH.046.022	OFH Employee Annex	15900 S. Cicero Ave.	Oak Forest	60452	Public	CCHHS	Owned	1/1/1910	18,089
HH.046.023	OFH Employee Residence	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1949	52,017
HH.046.024	OFH Generator Building B	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	426
HH.046.026	OFH Grounds Office	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1988	2,576
HH.046.027	OFH Halsted Street Pump House	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1940	1,021
HH.046.028	OFH Kitchen	15900 S. Cicero Ave.	Oak Forest	60452	Dietary	CCHHS	Owned	1/1/1912	20,375
HH.046.029	OFH Laboratory & Morgue	15900 S. Cicero Ave.	Oak Forest	60452	Medical	CCHHS	Owned	1/1/1954	9,373
HH.046.030	OFH Laundry	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1915	21,105
HH.046.031	OFH Laundry Annex	15900 S. Cicero Ave.	Oak Forest	60452	Vacant	CCHHS	Owned	1/1/1912	6,892
HH.046.032	OFH Main Gate House	15900 S. Cicero Ave.	Oak Forest	60452	Public Service	CCHHS	Owned	1/1/1950	261
HH.046.033	OFH Main Pump House	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	2,099
HH.046.034	OFH Medical Residence	15900 S. Cicero Ave.	Oak Forest	60452	Vacant	CCHHS	Owned	1/1/1912	12,114
HH.046.035	OFH Medical Social Service	15900 S. Cicero Ave.	Oak Forest	60452	Public Service	CCHHS	Owned	1/1/1912	8,815
HH.046.036	OFH Paint Shop	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1947	4,745
HH.046.037	OFH Physical Plant Office	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1910	2,680

HEALTH & HOSPITAL (HH)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year	GSF
HH.046.038	OFH Powerhouse, New	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	20,448
HH.046.039	OFH Powerhouse, Old	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1908	37,056
HH.046.040	OFH Protestant Chapel & Offices	15900 S. Cicero Ave.	Oak Forest	60452	Vacant	CCHHS	Owned	1/1/1912	4,525
HH.046.041	OFH Public Aid Offices (F Annex)	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	7,836
HH.046.042	OFH Public Safety	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	2,051
HH.046.043	OFH Pump House, Old	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned		636
HH.046.044	OFH Quincy Building	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1912	15,034
HH.046.045	OFH Recreation Building	15900 S. Cicero Ave.	Oak Forest	60452	Public	CCHHS	Owned	1/1/1954	53,244
HH.046.048	OFH Skilled Trade Garage	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1950	1,675
HH.046.049	OFH Sneed Hall	15900 S. Cicero Ave.	Oak Forest	60452	Admin	CCHHS	Owned	1/1/1912	18,983
HH.046.050	OFH Store Room #21	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1988	15,690
HH.046.051	OFH Store Room #23	15900 S. Cicero Ave.	Oak Forest	60452	Storage	CCHHS	Owned	1/1/1912	4,924
HH.046.052	OFH Stucco Office	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1950	3,310
HH.046.054	OFH Truck Barn & Salt Shed	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1950	2,922
HH.046.056	OFH Fire Dept Garage	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1940	1,004
HH.046.057	OFH Hazmat Building	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1947	201
HH.046.058	OFH Public Health Vehicle Storage	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/2010	5,368
HH.046.060	OFH Generator Building C	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	399
HH.046.061	OFH Generator Building E - New	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1991	503
HH.046.062	OFH Generator Building F-J	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	379
HH.046.063	OFH Generator Building E - Old	15900 S. Cicero Ave.	Oak Forest	60452	Utility	CCHHS	Owned	1/1/1980	389
HH.047.001	John H. Stroger Jr. Hospital	1901 W. Harrison St.	Chicago	60612	Hospital	CCHHS	Owned	1/1/2002	1,217,341
HH.047.003	JHS Campus Power Plant	750 S. Winchester Ave.	Chicago	60612	Utility	CCHHS	Owned	1/1/2002	54,251
HH.047.004	John H. Stroger Jr. Parking Structure	1800 W. Polk St.	Chicago	60612	Parking	CCHHS	Owned	1/1/1998	423,000
HH.067.001	Fantus Health Center	621 S. Winchester Ave.	Chicago	60612	Clinic	CCHHS	Owned	1/1/1959	205,793
HH.049.001	CCHHS Administration Building	1900 W. Polk St.	Chicago	60612	Admin	CCHHS	Owned	1/1/1931	324,708
HH.048.001	Provident Hospital	500 E. 51st St.	Chicago	60615	Hospital	CCHHS	Owned	1/1/1981	341,042
HH.048.002	Provident Outpatient Pharmacy	430 E. 50th Pl.	Chicago	60615	Pharmacy	CCHHS	Owned	1/1/2005	6,577
HH.048.004	John Sengstacke Clinic (former)	450 E. 51st St.	Chicago	60615	Vacant	CCHHS	Owned	1/1/1950	32,953
HH.048.005	Provident Hospital Parking Structure	5010 South Forrestville Ave.	Chicago	60615	Parking	CCHHS	Owned	1/1/1991	245,541

HEALTH & HOSPITAL (HH)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept/ Agency	Owned/ Leased	Year	GSF
HH.050.001	Durand Building	639 W. Wood St.	Chicago	60612	Vacant	CCHHS	Owned	1/1/1914	38,058
HH.051.001	Hektoen Building	627 W. Wood St.	Chicago	60612	Admin/Lab	CCHHS	Owned	1/1/1964	146,477
HH.052.001	Rob't J. Stein Institute of Forensic Med	2121 W. Harrison St.	Chicago	60612	Medical	Admin	Owned	1/1/1982	79,368
HH.054.001	Ruth M. Rothstein Core Center	2020 West Harrison St.	Chicago	60612	Clinic	CCHHS	Owned	1/1/1998	31,550
HH.076.001	Old Main Hospital	1825 W. Harrison St.	Chicago	60612	Vacant	CCHHS	Owned	1/1/1913	320,000

APPENDIX C: PERFORMANCE METRICS – SITE VS. SOURCE ENERGY

Site energy may be delivered to a building in one of two forms: primary or secondary energy. Primary energy is the raw fuel that is burned to create heat and electricity, such as natural gas or fuel oil used in onsite generation. Secondary energy is the energy product (heat or electricity) created from a raw fuel, such as electricity purchased from the grid or heat received from a district steam system. A unit of primary and a unit of secondary energy consumed at the site are not directly comparable because one represents a raw fuel while the other represents a converted fuel (U.S. Environmental Protection Agency, (www.energystar.gov/SourceEnergy)).

Therefore, to assess the relative efficiencies of buildings with varying proportions of primary and secondary energy consumption, it is necessary to convert these two types of energy into equivalent units of raw fuel consumed to generate that one unit of energy consumed on-site. To achieve this equivalency, EPA uses source energy. Source energy accounts for losses that are incurred in the storage, transport, and delivery of fuel to the building. Source energy provides the most equitable way to combine primary and secondary energy types into a single common unit, ensuring that no building receives either a credit or a penalty based on its energy source or utility. For this report, all performance metrics are reported in “source energy.”