



# COOK COUNTY ENERGY AND WATER BENCHMARKING REPORT 2019

*Based on 2018 Calendar Year Data for County-Owned Facilities*



# ACKNOWLEDGEMENTS

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Dear Cook County Resident,

Cook County Board President Toni Preckwinkle has set a goal for Cook County to be carbon neutral by 2050. In addition, one area of the President's Policy Roadmap is Sustainable Communities. An area of focus for Sustainable Communities is reducing and mitigating the impact of climate change. The Bureau of Asset Management has introduced the Green Building Program to address climate change by reducing energy and water usage. The Green Buildings Program provides a framework to ensure all capital work prioritizes energy and water efficiency. We track these reduction efforts through the benchmarking of our County Facilities. We are reporting on our efforts in this annual Benchmarking report.

Cook County uses the Department of Energy's Energy Star Portfolio Manager program to benchmark its facilities. This past year, Portfolio Manager updated its database of buildings that are used to determine energy star scores. The previous database of energy star properties was data collected in 2003. The new data set is from 2012. In the 9 years between data sets, both buildings and the electrical grid have become more efficient. Therefore, the standards for scoring are higher, and this year's benchmarking report will become the new baseline for year over year improvements.

The following are highlights of the report.

- 33% of benchmarked sites decreased greenhouse gas emissions
- The County realized a 13 percent reduction in water usage, the equivalent of 96 Olympic size swimming pools
- 20% of County electricity comes from renewable sources

Even though there were improvements with many of our properties, there was an overall increase in energy usage of 5%. Several factors contributed to this increase.

- There was a national increase in energy use of 4% in 2018, the largest increase since 2010, per the U.S. Energy Information Administration;
- Cooling degree days were up 30% over the previous year. The cooling degree total of 1,290 in 2018 is second highest cooling degree total since 1970.
- Heating degree days were up 17% over the previous year.

These increases draw further attention to the need for a more robust approach to energy conservation.

In response to the carbon neutral goal and the Policy Roadmap, the County has identified over 15 energy conservation projects to be implemented in 2019 and 2020. Additionally, the County will have a 100% renewable energy plan for electricity usage in 2019. With these projects, the County will continue its progress toward the carbon neutral goal and support the objective of Sustainable Communities to reduce climate change and provide ways to mitigate its effects.

Sincerely,

Ann P. Kalayil  
Bureau Chief

Jamie J. Meyers  
Energy Manager



"Cook County continues to be a leader in protecting our residents from future environmental impacts. The commitment to being carbon neutral by 2050 and powering all county operated buildings with 100% renewable electricity is an example of the importance of annual benchmarking to meet these goals and create actionable steps to protect our communities."

—Cook County Board President Toni Preckwinkle

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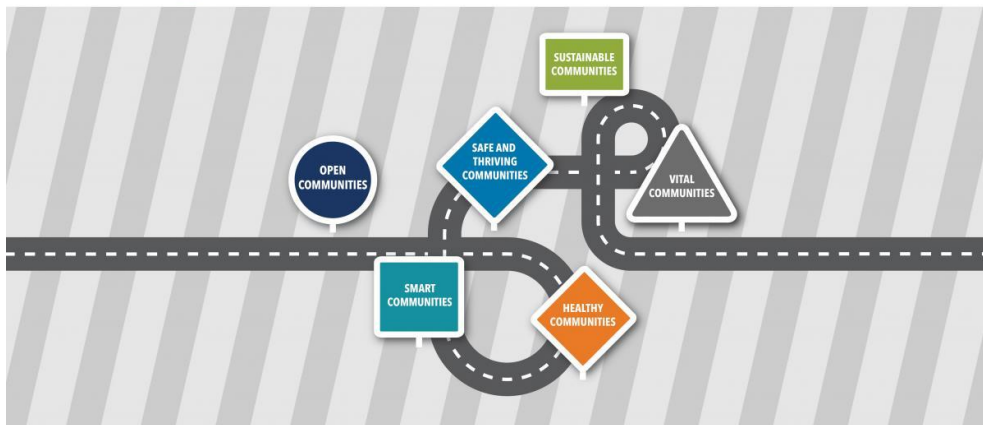
# POLICY ROADMAP

Cook County's Policy Roadmap has ties to building performance and sustainability. Specific goals that correspond with metrics and information in the Annual County Energy and Water Benchmarking Report can be found below.



## Cook County Policy Roadmap

Five-Year Strategic Plan for Offices Under the President



### Smart Communities

Public Infrastructure:  
Maximizing the benefits of County buildings, improving transportation systems and managing enterprise technology services

- **2.5** Integrate technology and workplace design to transform Cook County operations.
- **2.6** Minimize environmental impacts of facilities by adopting technology that reduces energy and water consumption and diverts waste.
- **4.1** Use data to make transportation and energy use more efficient.
- **4.3** Conduct a thorough valuation of all Cook County assets to capture market value

### Sustainable Communities

Environmental Sustainability:  
Prioritizing environmental justice, addressing climate change, investing in clean energy and green jobs and creating equitable access to open spaces

- **3.1** Advocate for increased energy efficiency across all sectors.
- **3.2** Prioritize energy efficiency and renewable energy development.
- **5.1** Integrate sustainability measures, such as energy and water use reduction, waste management and recycling, into every Cook County department's operations.






The full Policy Roadmap can be found at:  
<https://www.cookcountyil.gov/service/policy-roadmap>

# Bureau of Asset Management's Green Buildings Program

The Green Buildings Program (GBP) looks holistically at the design, space utilization, operations and life cycle impact of County owned properties to become a model for sustainable asset management that minimizes environmental impacts, improves the health and wellness of communities, and increases the value of County assets to optimize taxpayer dollars.






## The 5 Pillars of the Green Buildings Program

Every change made to County properties should use these pillars and goals as part of the decision-making process.

Energy	Water	Waste	Technology	Community
				
<b>Goal</b>	<b>Goal</b>	<b>Goal</b>	<b>Goal</b>	<b>Goal</b>
Carbon Neutral by 2050	30% water usage reduction by 2025	80% diversion rate by 2050	80% of buildings to incorporate smart building technology by 2025	Create a positive impact on County residents

Using a point-based system that evaluates each capital project on its adherence to the pillars and associated goals, a Facility Sustainability Condition Index score, from 0 (worst) to 100 (best), will be generated for each project. Year-over-year improvement of the average score will be a **Key Performance Indicator** for evaluating program success. 2019 will be the baseline year.

## 2019 Green Buildings Program Initiatives

Develop 100% renewables plan for County electricity usage 	Develop water conservation measures for the Department of Corrections campus 	Incorporate a waste and recycling component to the County benchmarking ordinance 	Create an inventory and upgrade schedule for building automation systems 	Develop sustainability standards as part of the workplace strategy design standards 
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# COOK COUNTY BENCHMARKING OVERVIEW

This benchmarking report is divided into 3 sections: energy usage, emissions, and water usage for Cook County Facilities in Calendar year 2018.

Benchmarking helps to compare year-to-year usage patterns to identify energy and cost saving opportunities. This benchmarking report evaluated 171 County-owned and operated buildings categorized across 4 types: Corporate, Health and Hospitals, Public Safety, and Parking structures. The breakdown of these facilities is below.



Figure 1. Number of County-owned buildings benchmarked in each portfolio category

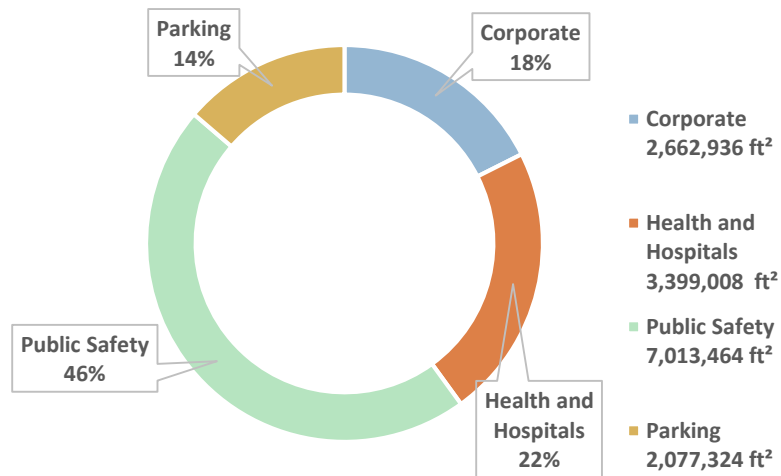


Figure 2. Percentage of square footage by building type



# COOK COUNTY BENCHMARKING AT A GLANCE

Source EUI 2018



Energy  
Star  
Score

Improved from 2017

45  
%

Energy

17% of  
Sites  
Performed  
Better  
than  
Median

171  
County-  
Owned  
Facilities  
Benchmarked

6 LEED  
Buildings

33% of  
Sites  
Improved

GHG  
Emissions

From 2017-2018

13  
%

Water

Total Water  
Reduction from  
2017-2018



# ENERGY

## ENERGY REPORTING FACT SHEET

What do we report on?

Source Energy

**Source Energy** is the energy used from electricity and natural gas with losses in transmission, fuel transport, etc. built in. This metric is used to allow for comparisons with the energy star score process.

What is different this year?

New Building Survey (CBECS 2012)

**Energy Star** updated their median building data and source energy calculation factor. This made Energy Star Scores more competitive as buildings have become more efficient, and source energy usage to decrease with systemic grid improvements.

How will this impact results?

Year to Year Comparisons

With a **new conversion factor** change from 3.14 to 2.60 for electric source energy, this year will start over as a baseline benchmark for the source energy and EUI comparisons since the previous data is not directly comparable anymore.



# ENERGY USAGE

Total Energy  
Usage 2018  
3,390,861,928  
kBtu

Increase of  
5% over  
2017

## Why was 2018 a high energy usage year?

Climate  
Change: More  
days requiring  
heating and  
cooling due to  
weather  
extremes

In line with  
national  
energy use  
increase in  
2018.<sup>2</sup>

## Did you know?

Cook County is part of the Department of Energy's [Better Buildings Challenge](#), whereby organizations pledge to reduce portfolio energy usage by 20% over a 10 year timeframe.

Cook County has reduced energy usage 11% from its baseline year of 2013.



<sup>2</sup> <https://www.eia.gov/todayinenergy/detail.php?id=39092>

is an EPA metric to assess how buildings and facilities are performing<sup>3</sup>. The score normalizes billed energy and business operations to compare like building types' year to year energy usage data.

# ENERGY STAR SCORE PERFORMANCE

A score eligible for Energy Star certification is 75 and above. Certain building types, campuses, etc. are not eligible for Energy Star Score calculations. Data for the Cook County Portfolio can be seen in Appendix A.

2018 High Performing Buildings by Energy Star Score included:

- Skokie Courthouse
- Dunne Building
- Rolling Meadows Courthouse

Property	2010	2011	2012	2013	2014	2015	2016	2017	2018
Skokie Courthouse (2nd District )	100	70	75	58	51	58	62	76	<b>82</b>
George W Dunne Administration Building	58	59	66	65	68	73	73	77	<b>73</b>
Rolling Meadows Courthouse (3rd District )	N/A	44	52	49	43	43	56	69	<b>70</b>
Rockwell Warehouse	55	56	60	53	53	52	53	51	<b>52</b>
Domestic Violence Courthouse	33	42	48	43	38	45	40	48	<b>50</b>
Whitcomb Building	39	33	33	27	29	36	36	39	<b>47</b>
Bridgeview Courthouse (5th District )	23	38	44	35	24	24	32	45	<b>44</b>
Markham Courthouse (6th District)	14	27	40	31	27	33	32	47	<b>43</b>
Logan Square Health Center	58	57	56	51	36	38	34	30	<b>38</b>
Cicero Records Center	N/A	N/A	N/A	N/A	46	36	40	39	<b>38</b>
Maywood Courthouse (4th District )	10	13	16	17	16	23	26	28	<b>32</b>
Piszczek TB Clinic	20	11	22	16	19	20	25	27	<b>31</b>
Jefferson Building	29	34	37	33	29	38	42	34	<b>30</b>
Cook County Building	9	16	14	18	27	29	30	34	<b>29</b>
Hawthorne Warehouse	17	14	16	17	18	18	17	18	<b>20</b>
Near South Health Center	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	<b>10</b>
Stroger Hospital Campus	7	7	7	7	12	16	13	12	<b>6</b>
Robbins Health Center	43	40	48	54	57	50	13	3	<b>4</b>
Provident Hospital	31	N/A	N/A	1	1	1	3	3	<b>2</b>
Cottage Grove Health Center	27	15	22	20	22	27	6	1	<b>1</b>
CORE Center	1	1	1	1	1	1	1	1	<b>1</b>
Englewood Health Center	1	1	1	1	1	1	1	1	<b>1</b>

Note: Energy Star Scores are based on an updated building comparison survey as of August 2018. Scores across all years have been adjusted to reflect the current average efficiencies of like types of facilities for more accurate year to year comparisons. Values will not match previous reports and reflect a decline as the average building has become more efficient from the previous 2003 survey.

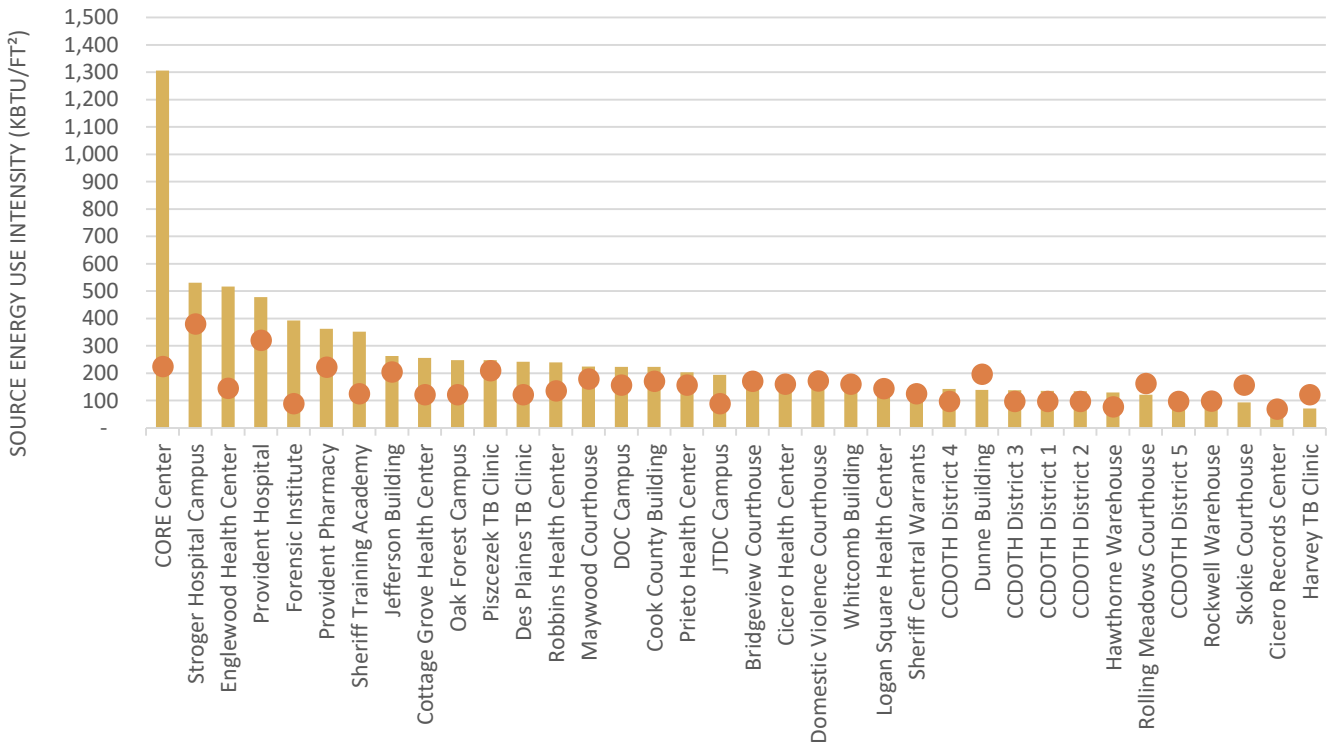
<sup>3</sup> <https://www.energystar.gov/buildings/facility-owners-and-managers/existing-buildings/use-portfolio-manager/interpret-your-results/what>

# SOURCE ENERGY USE INTENSITY BY FACILITY

Source Energy Use Intensity (EUI) looks at total energy including production, usage, and distribution over the total site footprint. As not all property types qualify for Energy Star Score calculation, Source EUI is the comparison tool used for full portfolio evaluation.

## Source Energy Use Intensity (kBtu/ft<sup>2</sup>) by Facility

■ 2018 Source EUI    ● National Median Source EUI



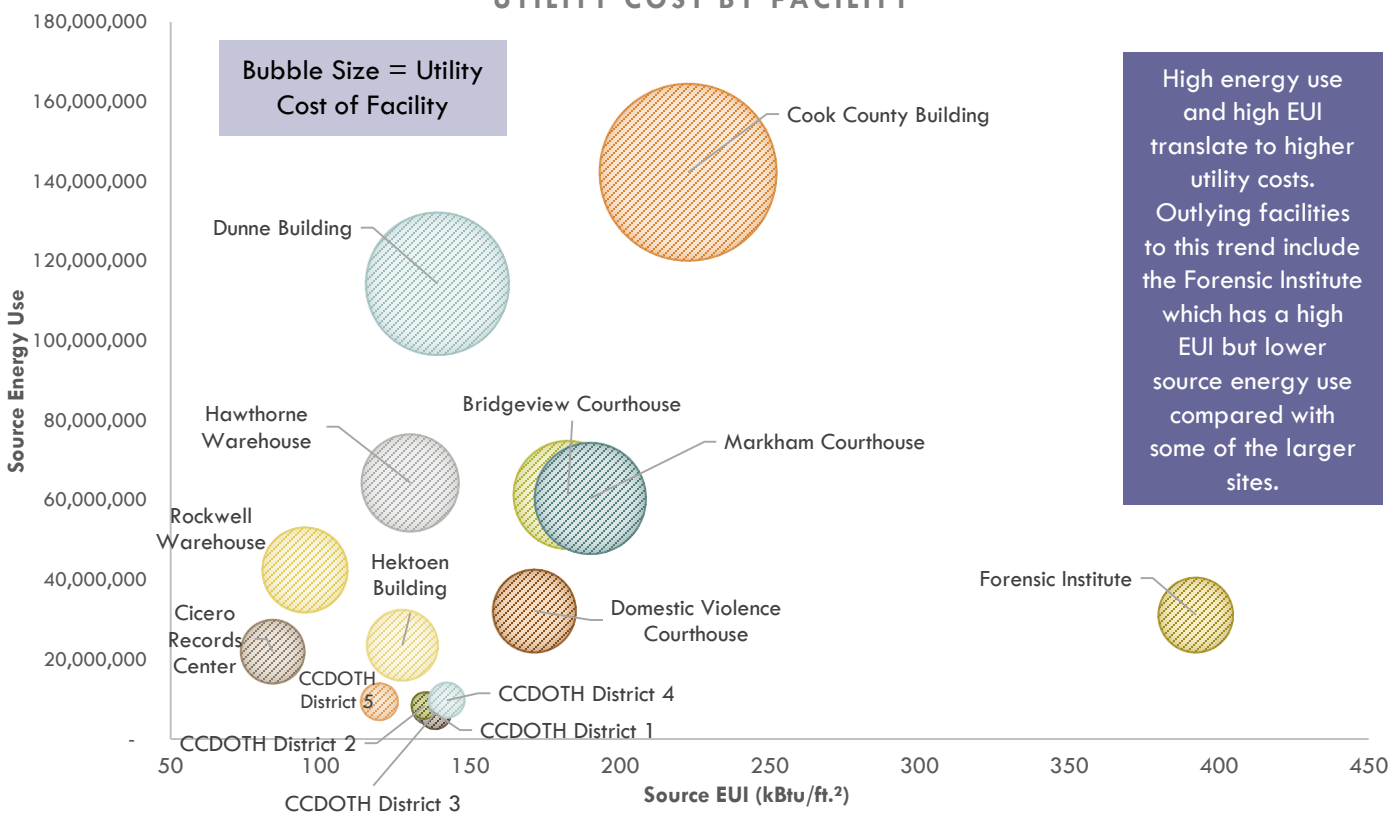
This figure looks at top Source EUI sites across the portfolio compared with national median values. 17.5% of facilities performed better than or equal to the national median in 2018. These facilities include the Dunne Building, Rockwell Warehouse, Skokie Courthouse, Rolling Meadows Courthouse, Domestic Violence Courthouse, Hektoen, and Harvey TB Clinic.

For facilities not eligible for an Energy Star Score, the metric Source Energy Use Intensity (EUI) is used as the benchmarking value for year to year comparison.

# IMPACTS OF ENERGY USE INTENSITY ON COSTS

High performing buildings tend to have lower EUI values and lower costs meaning they utilize the energy needed per square foot of occupied space efficiently. An example of a site that consumes a significant amount of energy but efficiently uses the space is the Dunne Building. When compared with like facilities, this efficiency is evident by a lower EUI value and lower costs.

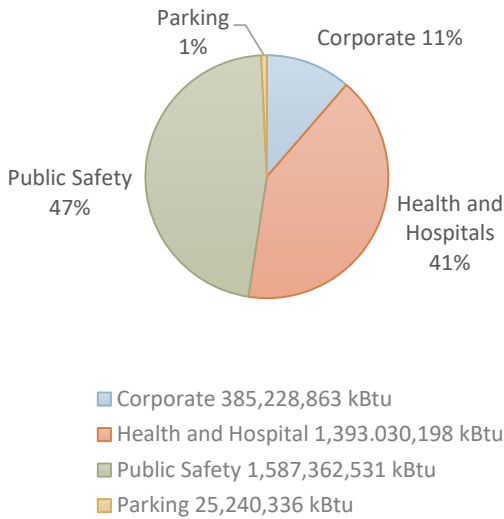
**FIGURE 4. SOURCE ENERGY USE, ENERGY USE INTENSITY, AND UTILITY COST BY FACILITY**



The DOC Campus, Stroger Hospital Campus, and JTDC Campus were left off this chart as they are the three highest energy users and would skew the data because they are large campuses rather than single buildings. Energy use for these campuses can be found in the Appendix.

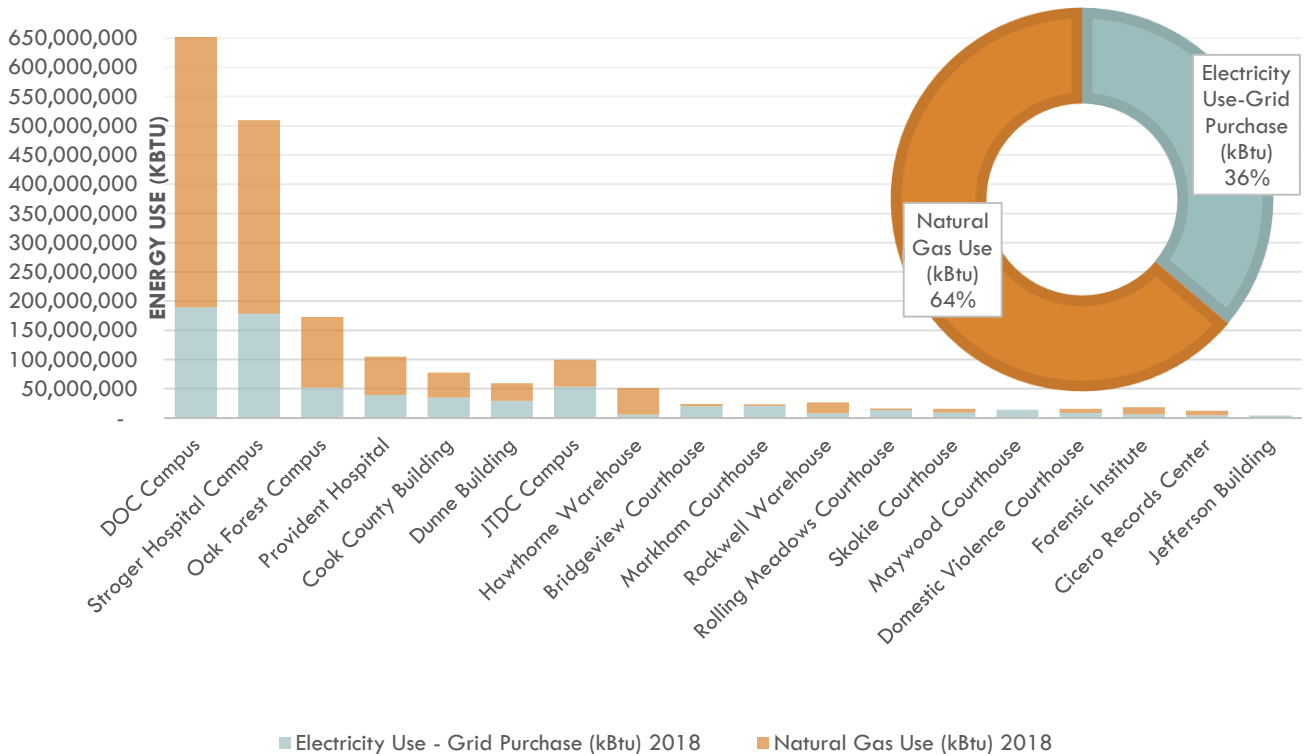
# SOURCE ENERGY USE BY PORTFOLIO

Figure 5. 2018 Source Energy by Building Portfolio



The type of energy used to operate a building determines overall emissions and consumption costs. GHG emissions from electricity are higher than those from natural gas in Illinois. In recent years, Cook County facilities have shifted toward using more natural gas (64% of the energy) and less electricity (36% of the energy). Figure 6 below shows the split between electricity and natural gas usage for Cook County sites that use the most energy and across the portfolio.

FIGURE 6. FACILITY ENERGY USE BY FUEL TYPE





**Photo: Bridgeview Courthouse Solar Installation**

Solar Photovoltaic (PV) Panels work by using the sun's energy to produce electricity. Cook County has two facilities with solar installations-the Bridgeview Courthouse (solar trees-pictured above) and the Domestic Violence Courthouse (rooftop installation). The total energy produced for both the Bridgeview and Domestic Violence Courthouse locations was about 362,430 kWh of electricity in 2018-the same amount of energy it would take to power 31 homes. Solar PV installations contribute toward the County's goal to be carbon neutral by 2050 and to power County buildings with 100% renewable electricity.





# CARBON EMISSIONS

## CARBON EMISSIONS DATA AT COOK COUNTY OWNED FACILITIES

Total GHG  
Emissions  
2018

184,114 metric  
tons CO<sub>2</sub>e

33%

of Sites  
Reduced GHG  
Emissions from  
2017-2018

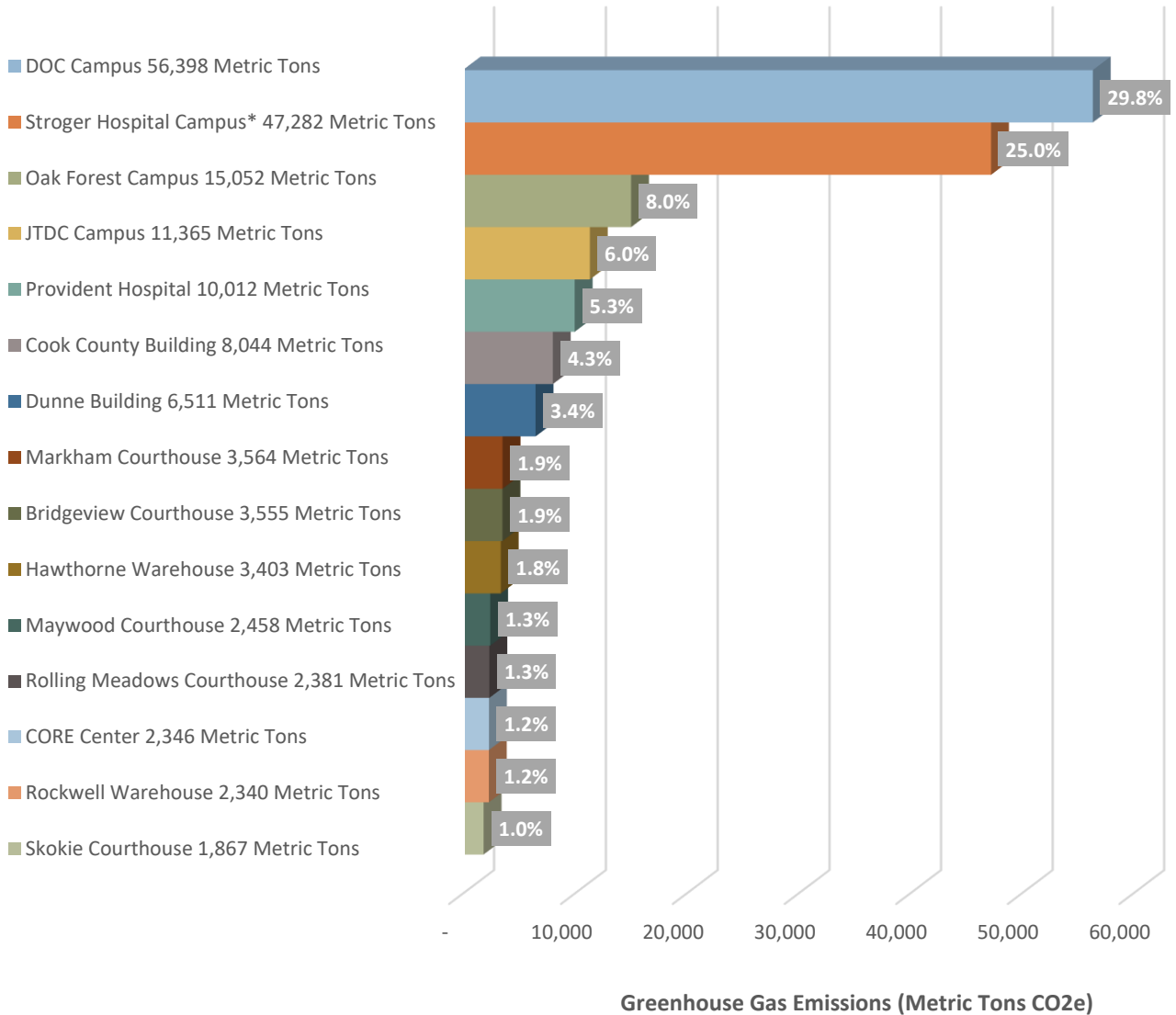
### Did you know?

Cook County has increased Greenhouse Gas (GHG) emissions by 3% or 5,443 metric tons CO<sub>2</sub>e from benchmarked buildings over the last year. Emissions increases resulted from the same impacts mentioned in the energy section- major weather impacts. And as with energy, these increases are in line with National increase in 2018.

**Cook County has a goal to be  
carbon neutral by 2050**

# GREENHOUSE GAS EMISSIONS BY FACILITY

Figure 7. Percent of Total GHG Emissions by Facility



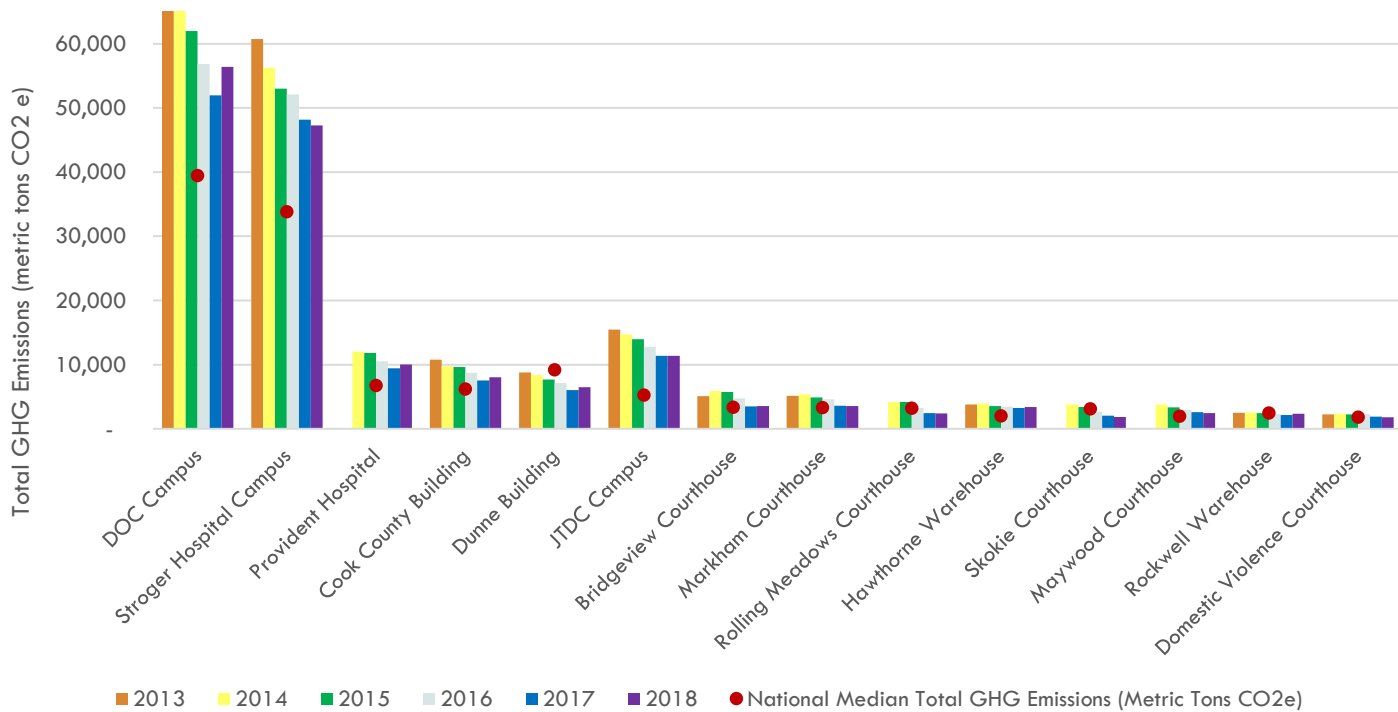
Of the benchmarked buildings, the two highest GHG emitting sites in Cook County's building portfolio are the DOC Campus and Stroger Hospital Campus. This chart includes the top 15 sites for GHG emissions. The remaining buildings in the portfolio not included on this chart make up about 6.7% of total portfolio emissions.

\*Stroger Hospital Campus includes Stroger Hospital, the JSH Powerhouse, and the JSH Parking Structure

# GREENHOUSE GAS EMISSIONS VS. NATIONAL MEDIAN

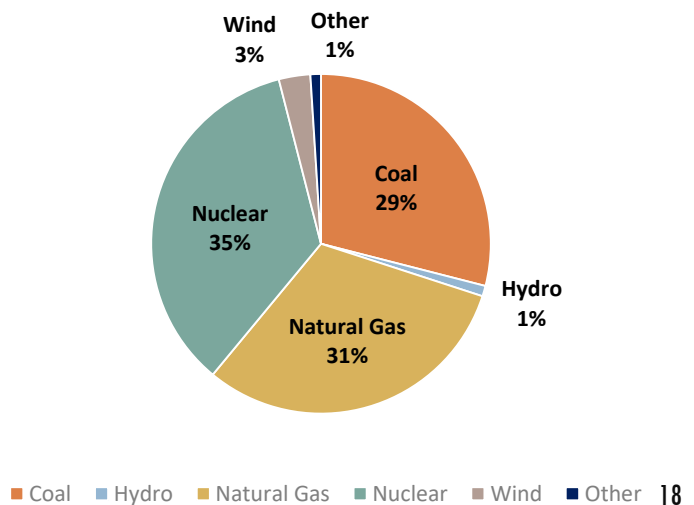
Facilities that performed better than the 2018 national median include the Dunne Building, Rockwell Warehouse, Skokie Courthouse, Rolling Meadows Courthouse, Domestic Violence Courthouse, Harvey TB Clinic, and the Hektoen Building . The national median for each facility differs based on sector type and building size.

**Figure 8. Total Greenhouse Gas Emissions vs. National Median**



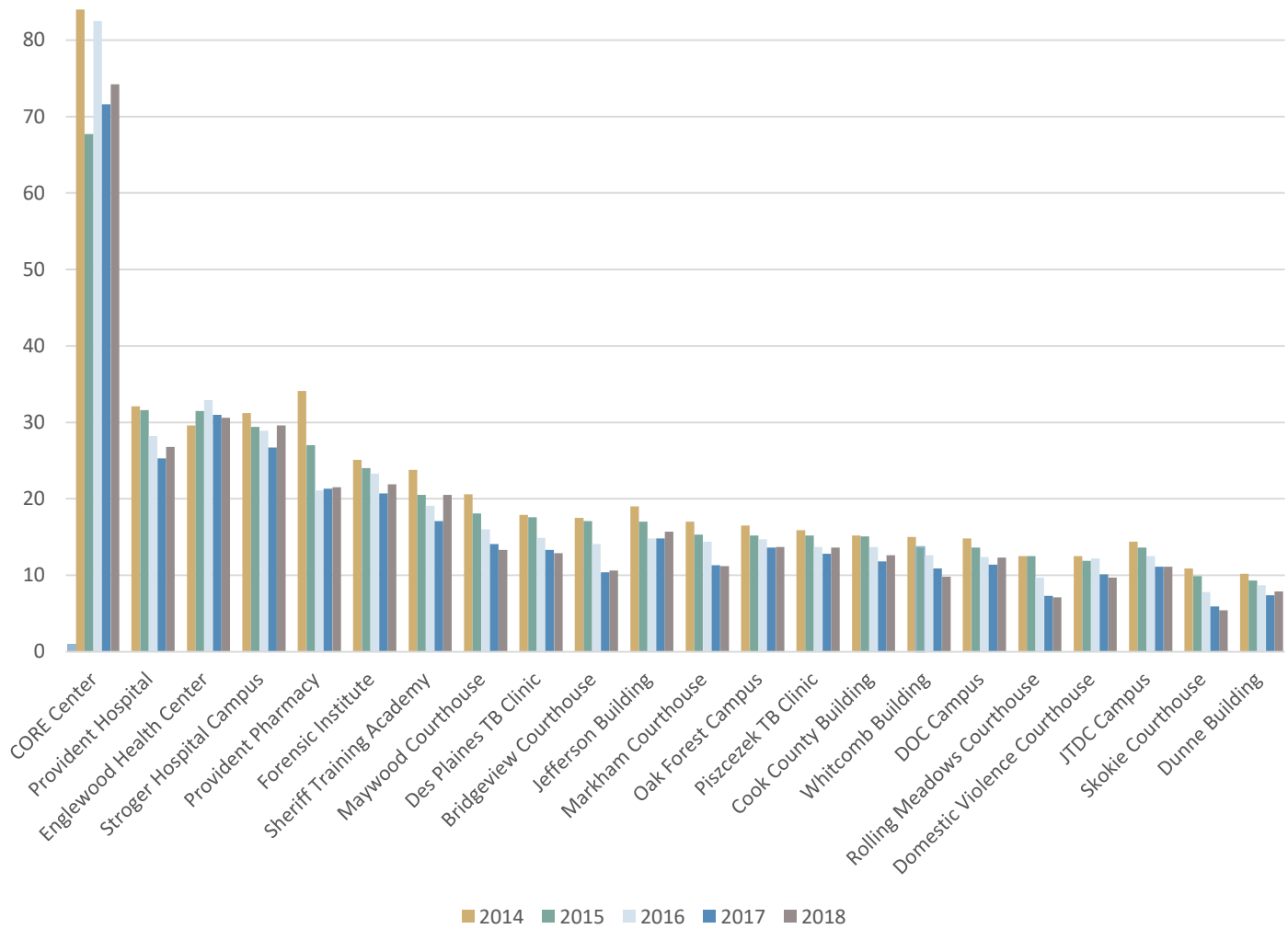
The County gets electricity from the [ComEd energy grid mix](#). Nuclear and natural gas fuel sources make up most of this grid. As more renewable energy sources are added to meet requirements from the Future Energy Jobs Act, greenhouse gas emissions will be reduced at the grid level as well as at daily operational levels.

**Figure 9: 2018 ELECTRICITY GRID COMPOSITION (COMED)**



# GREENHOUSE GAS EMISSIONS INTENSITY

Figure 10. Greenhouse Gas Emissions Intensity (kgCO<sub>2</sub>e/ft<sup>2</sup>)



Greenhouse gas intensity expresses total emissions on a per square foot basis with units (kgCO<sub>2</sub>e/ft<sup>2</sup>)


This figure highlights the general improvement in greenhouse gas emissions intensity across the majority of facilities. Outlying high GHG Intensity values such as the CORE Center reveal areas for improvement.

# Toward Carbon Neutral: Energy Behavior Change Campaign for Employees

## Remember:

Please turn off your computer monitor when you leave work for the day. This helps to conserve energy at work.

When it's time to go home, make sure there is no longer a yellow or white light blinking at you.

 Turn Off Your Monitor When You Leave



## Way to be an energy-saving super star!




Thank you for turning off your computer monitor at the end of the day.

You can save energy and money at home too with free smart meter and energy efficiency programs. Learn more here: [www.cookcountyll.gov/service/energy-efficiency](http://www.cookcountyll.gov/service/energy-efficiency)

**OOPS!**

It looks like you left on your computer monitor overnight.

Turning off your monitor at night helps conserve energy. When it's time to go home, make sure there is no longer a yellow or white light blinking at you.

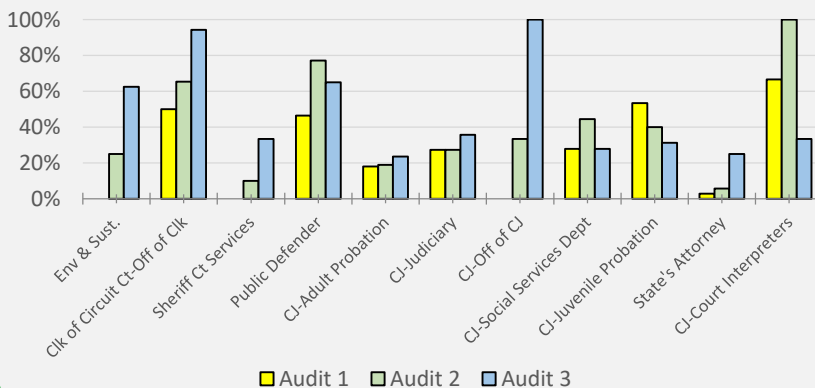
 Please Turn Off Your Monitor When You Leave



Cook County Dept. of Environment and Sustainability and the Bureau of Asset Management completed a collaborative pilot at two courthouses to educate and encourage employees to save energy at work by turning off their computer monitor displays when not in use. These energy savings contributed toward the carbon neutral goal and led to secondary energy improvements and awareness by facilities staff and employees. Both courthouses improved their Energy Star Scores and reduced their electricity usage over the last year.

## Maywood and Domestic Violence Courthouse (DVC) Campaigns

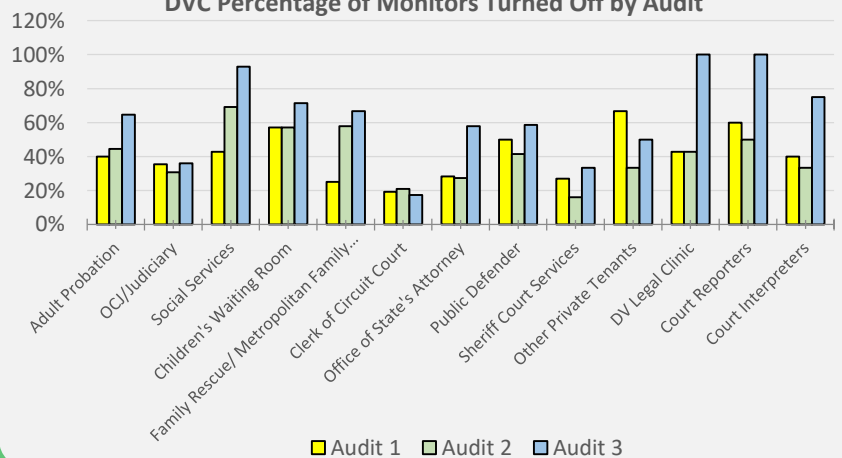
Maywood Courthouse Percentage of Monitors Turned Off by Audit



At Maywood, most monitors were on for the initial walk through. After three campaigns, **51%** of the computer monitors were turned off in the courthouse as a whole. There were 278 monitors evaluated during the final audit.

At DVC, most monitors were on for the initial walk through. After three campaigns, **49%** of the computer monitors were turned off in the courthouse as a whole. There were 376 monitors evaluated at this site during the final audit.

DVC Percentage of Monitors Turned Off by Audit





# WATER

Total Water  
Use  
2018  
**506,864**  
TGAL\*

**58%**  
of Sites  
Decreased  
Water Use  
from 2017-  
2018

**13%**  
decrease in  
total water  
usage from  
2017-2018

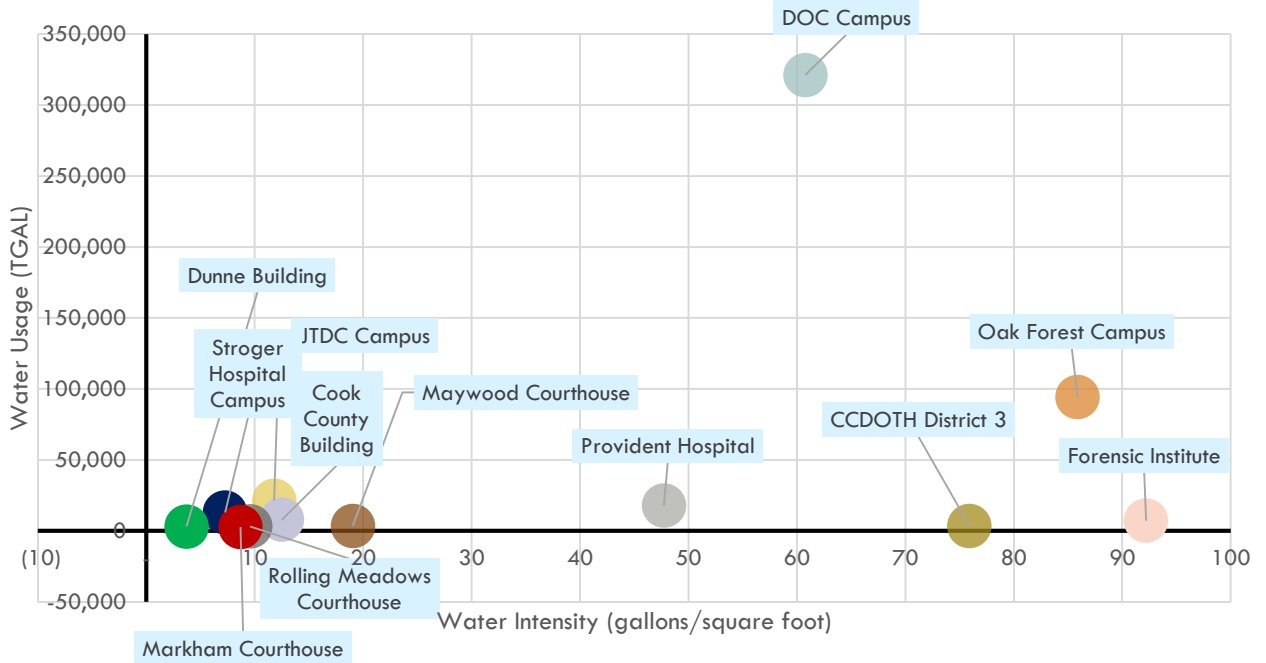
## Did you know?

This is the third full year of water data reported for Cook County's Portfolio of buildings.

Cook County has a 30% water reduction goal by 2025

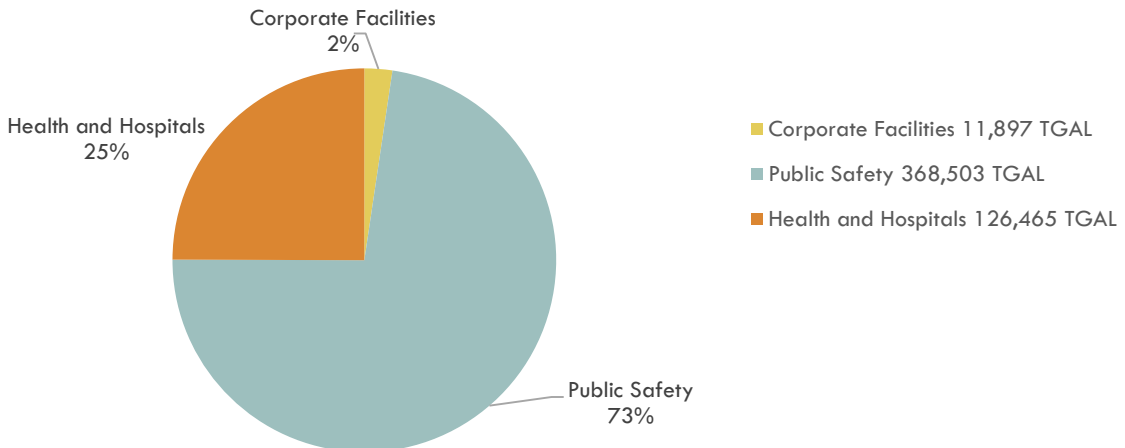
# WATER USAGE

FIGURE 11. COMPARISON OF WATER USE AND WATER USE INTENSITY



Total water consumption and water use intensity (use over occupied area) provide metrics for improvement planning. High water usage and high water use intensity can coincide but this is not always the case. For example, the Forensic Institute consumes less water but has a higher water use intensity which indicates further analysis for improvement.

FIGURE 12. TOTAL WATER USE BY PORTFOLIO

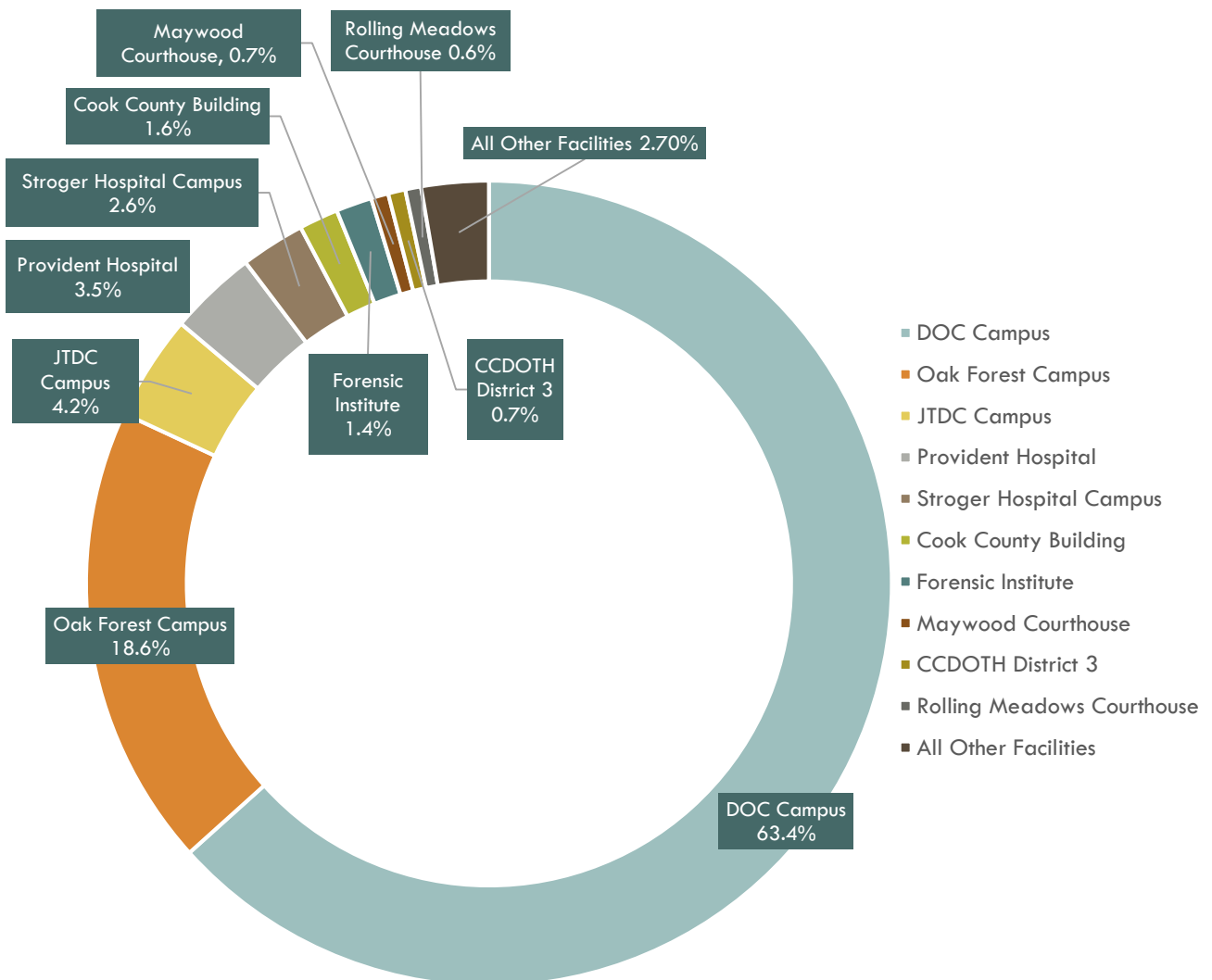




# PERCENTAGE OF WATER USAGE BY FACILITY

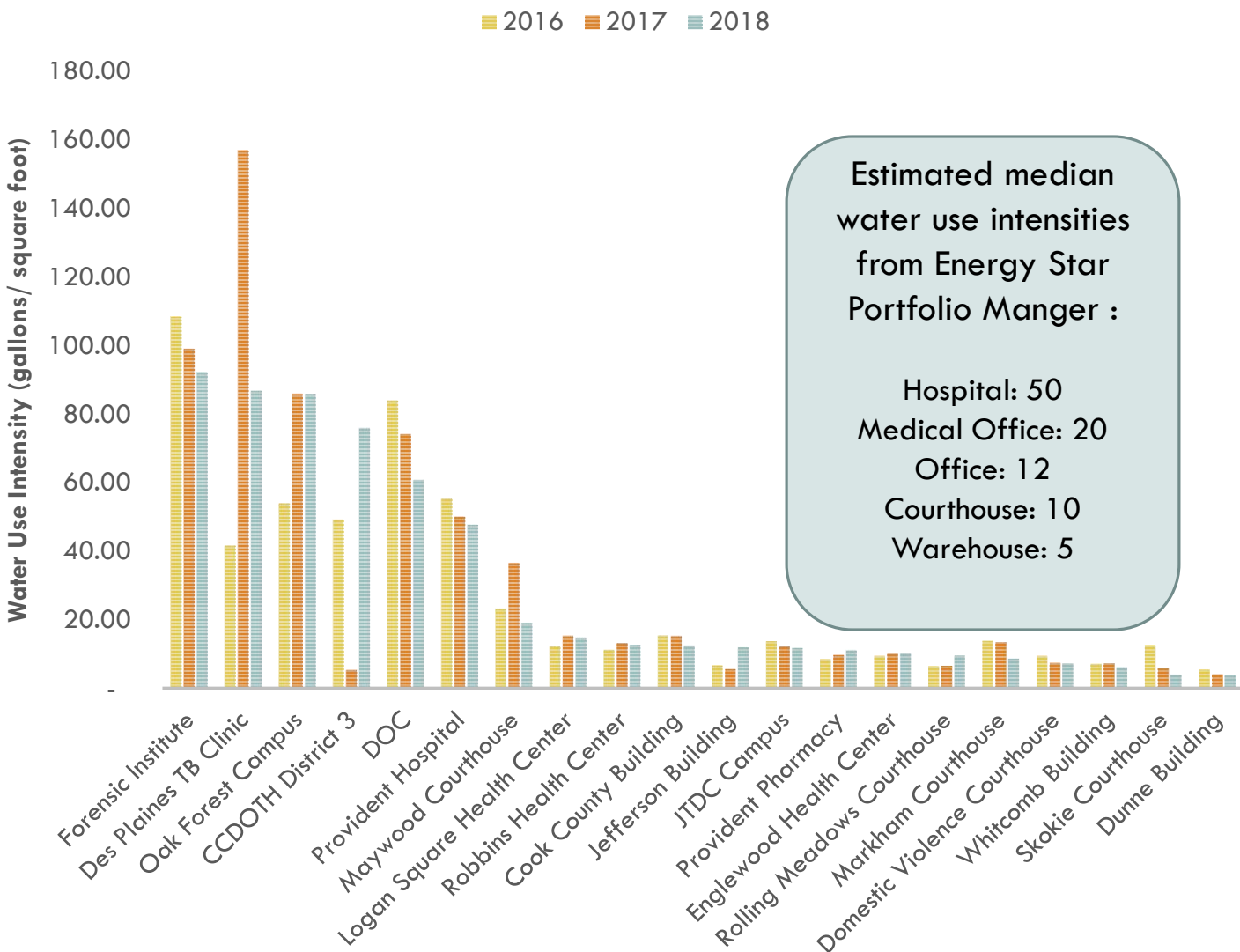
This figure shows the water use breakdown over the County portfolio. The highest water consumption occurs at the DOC campus which makes up 63% of water usage within the portfolio. Oak Forest Hospital and JTDC Campus are also high water consumers.

Figure 13. Percentage of Water Usage By Facility



# WATER USE INTENSITY

FIGURE 14. WATER USE INTENSITY 2016-2018



Water use intensity is a similar metric to energy use intensity that compares total water usage over the size of the facility. This footprint impact can highlight inefficiencies in infrastructure design or areas for further submeter analysis to conserve the most water. Facilities with an increase in use intensity may require further analysis to detect leaks or operational changes.

## Water Efficiency Highlight: Green Roof at CCHHS Professional Building

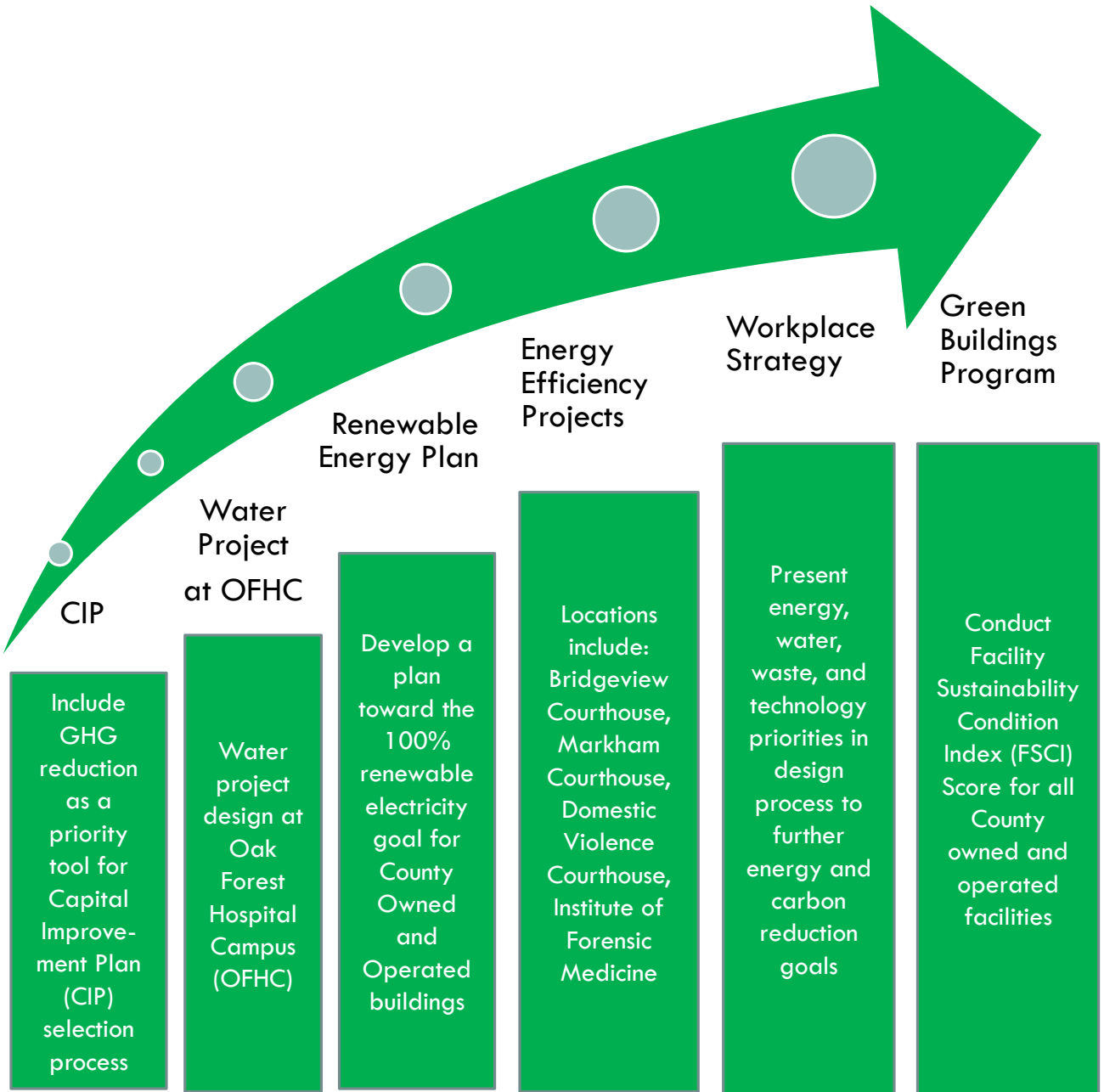


*Water runoff and flooding can lead to system overuse and infrastructure pollution. In Cook County, a CNT study found \$773 million in damage in Cook County alone between 2007 and 2011.<sup>4</sup> Stormwater management including green roof technologies can reduce and delay the amount of water that reaches the ground and can insulate a building to reduce the heat reflected off the surface. A study by the GSA has indicated reduced runoff up to 65% on buildings with a green roof compared to a standard roof<sup>5</sup>. A new CCHHS Professional Building that came online late in 2018 (which will be analyzed for utility usage starting in 2019) has installed a green roof to capture these stormwater management benefits for the surrounding community.*

<sup>4</sup>[https://www.cnt.org/sites/default/files/publications/CNT\\_PrevalenceAndCostOfUrbanFlooding2014.pdf](https://www.cnt.org/sites/default/files/publications/CNT_PrevalenceAndCostOfUrbanFlooding2014.pdf)

<sup>5</sup>[https://www.gsa.gov/cdnstatic/The\\_Benefits\\_and\\_Challenges\\_of\\_Green\\_Roofs\\_on\\_Public\\_and\\_Commercial\\_Buildings.pdf](https://www.gsa.gov/cdnstatic/The_Benefits_and_Challenges_of_Green_Roofs_on_Public_and_Commercial_Buildings.pdf)

# NEXT STEPS



# DATA TABLES

- Appendix A: 2018 Energy Benchmarking Results of County-Owned Properties
- Appendix B: 2018 Water Benchmarking Results
- Appendix C: Cook County Building List by Portfolio
- Appendix D: Assumptions for Calculations

# Appendix A: 2018 Energy Benchmarking Results of County-Owned Properties

The following table summarizes the 2018 benchmarking results for each building. Data has been downloaded from Energy Star Portfolio Manager.

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO <sub>2</sub> e)	GHG Emissions Intensity (kgCO <sub>2</sub> e/ft <sup>2</sup> )
<b>George W Dunne Office Building</b>	Office	1965	1	73	72.6	139.1	114,285,525	59,637,945	8,652,768	301,147	6,511.1	7.9
<b>Cook County Building</b>	Office	1906	1	29	121.5	222.8	142,259,341	77,618,971	10,175,752	428,993	8,054.7	12.6
<b>Rockwell Warehouse</b>	Non-Refrigerated Warehouse	1927	1	52	60.3	94.8	42,431,861	26,973,614	2,363,015	189,110	2,345.8	5.2
<b>Hawthorne Warehouse</b>	Non-Refrigerated Warehouse	1905	1	20	103.5	130	64,312,375	51,190,247	1,768,986	451,545	3,402.5	6.9
<b>Cicero Records Center</b>	Non-Refrigerated Warehouse	2008	1	38	48.1	84.1	21,939,761	12,552,845	1,466,969	75,475	1,233.6	4.7
<b>2nd District Courthouse Complex - Skokie</b>	Courthouse	1980	1	67	56.3	122.8	42,455,430	19,454,705	3,689,162	68,673	2,458.9	7.1
<b>2nd District Courthouse (Skokie)</b>	Courthouse	1980	1	82	46	94	32,496,271	15,897,863	2,646,711	68,673	1,867.1	5.4
<b>2nd District Courthouse (Skokie) Parking Structure</b>	Parking	2002	1	N/A	7.5	20.9	10,086,807	3,602,431	1,055,812	N/A	599.3	1.2
<b>3rd District Courthouse Complex - Rolling Meadows</b>	Courthouse	1987	1	67	51.3	127.5	42,753,360	17,183,010	4,138,536	30,623	2,511.8	7.5
<b>3rd District Courthouse (Rolling Meadows)</b>	Courthouse	1987	1	70	48.9	121	40,552,952	16,397,150	3,908,213	30,623	2,381.1	7.1
<b>3rd District Courthouse (Rolling Meadows) Parking Structure</b>	Parking	1987	1	N/A	1.5	4.1	2,257,505	806,252	236,299	N/A	134.1	0.2

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu /ft <sup>2</sup> )	Source EUI (kBtu /ft <sup>2</sup> )	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO <sub>2</sub> e)	GHG Emissions Intensity (kgCO <sub>2</sub> e/ft <sup>2</sup> )
<b>4th District Courthouse Campus - Maywood</b>	Courthouse	1975	4	N/A	89.1	234.7	65,004,661	24,667,408	6,548,966	23,223	3,840.8	13.9
<b>Jefferson Building</b>	Office	1965	1	30	94.1	263.5	12,450,995	4,446,784	1,303,278	N/A	739.8	15.7
<b>Whitcomb Building</b>	Office	1965	1	47	59	165.1	3,832,231	1,368,654	401,130	N/A	227.7	9.8
<b>Sheriff Training Academy</b>	Other - Public Services	1967	1	N/A	155.8	351.8	7,628,630	3,379,168	683,387	10,475	443.5	20.5
<b>4th District Courthouse (Maywood)</b>	Courthouse	1975	1	32	84.6	224.8	41,559,899	15,639,621	4,210,064	N/A	2,457.5	13.3
<b>5th District Courthouse - Bridgeview</b>	Courthouse	1989	1	44	73.7	182.6	61,217,251	24,712,409	5,913,508	37,288	3,554.8	10.6
<b>Domestic Violence Courthouse</b>	Courthouse	1890	1	50	87.9	171.5	32,116,765	16,458,530	2,488,160	75,390	1,812.8	9.7
<b>6th District Courthouse - Markham</b>	Courthouse	1980	1	43	73	190.1	60,386,604	23,181,209	6,036,900	25,833	3,564.0	11.2
<b>Juvenile Temporary Detention Center Campus</b>	Prison/Incarceration	1973	3	N/A	97.1	193.8	198,404,630	99,379,640	15,752,135	456,333	11,365.3	11.1
<b>Juvenile Temporary Detention Center</b>	Prison/Incarceration	1974	1	N/A	95.5	176	107,580,679	58,363,908	7,753,906	319,076	6,096.2	10.0
<b>Juvenile Courthouse</b>	Courthouse	1993	1	37	98.2	216.8	89,452,115	40,525,790	7,854,636	137,258	5,187.6	12.6
<b>JTDC Parking Structure</b>	Parking	1993	1	N/A	3.4	9.5	7,475,345	2,669,766	782,464	N/A	444.2	0.6
<b>Institute of Forensic Medicine</b>	Other - Public Services	1982	1	N/A	232.5	392.3	31,133,555	18,452,908	1,969,184	117,341	1,741.0	21.9
<b>Cook County Department of Corrections Campus</b>	Prison/Incarceration	1926	57	N/A	144	223.7	1,022,390,943	658,273,671	55,468,690	4,690,145	56,397.6	12.3



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)
<b>CCDOTH Maintenance Facility District 1</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1954	4	N/A	114.4	135.9	7,684,893	6,472,249	148,892	59,642	401.3	7.1
<b>CCDOTH Maintenance Facility District 3</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1950	3	N/A	96.6	138.3	6,408,237	4,475,447	286,220	34,989	348.3	7.5
<b>CCDOTH Maintenance Facility District 2</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1990	4	N/A	109.3	134.9	8,351,389	6,764,071	209,197	60,503	440.1	7.1
<b>CCDOTH Maintenance Facility District 4</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1969	5	N/A	118.5	142.2	9,735,175	8,113,679	203,620	74,189	509.6	7.4
<b>CCDOTH Maintenance Facility District 5</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1987	3	N/A	90.2	119.7	9,345,177	7,045,008	326,230	59,319	500.3	6.4
<b>Oak Forest Hospital Campus</b>	Medical Office	1910	52	N/A	157.7	248	272,278,953	173,119,401	15,157,188	1,214,031	15,052.0	13.7
<b>CORE Center</b>	Medical Office	1998	1	1	701.3	1306.6	41,223,948	22,124,703	3,013,399	118,430	2,339.5	74.2
<b>Provident Hospital Campus</b>	Hospital (General Medical & Surgical)	1981	2	2	285.6	490.6	183,472,294	106,812,833	11,944,199	660,592	10,288.7	27.5
<b>Provident Hospital</b>	Hospital (General Medical & Surgical)	1981	2	2	281.1	478.1	178,806,869	105,146,610	11,455,857	660,592	10,011.5	26.8
<b>Provident Hospital Parking Structure</b>	Parking	1991	1	N/A	6.8	19.1	4,690,408	1,675,146	490,957	N/A	278.7	1.1
<b>Stroger Hospital Campus</b>	Hospital (General Medical & Surgical)	2002	4	6	319.2	530.9	847,429,662	509,509,458	52,327,029	3,309,696	47,282.0	29.6
<b>Hektoen Building</b>	Laboratory	1964	2	N/A	110.7	127.4	23,508,039	20,422,977	345,656	192,436	1,218.3	6.6
<b>Cottage Grove Health Center</b>	Medical Office	2000	0	1	150.3	255.9	3,421,421	2,009,076	219,711	12,594	191.6	14.3

Property Name	Primary Property Type	Year Built	No. of Bldgs.	ENERGY STAR Score	Site EUI (kBtu/ft <sup>2</sup> )	Source EUI (kBtu/ft <sup>2</sup> )	Source Energy Use (kBtu)	Site Energy Use (kBtu)	Electricity Use - Grid Purchase (kWh)	Natural Gas Use (therms)	GHG Emissions (Metric Tons CO <sub>2</sub> e)	GHG Emissions Intensity (kgCO <sub>2</sub> e/ft <sup>2</sup> )
<b>Piszczek TB Clinic</b>	Medical Office	1957	1	31	164.3	247.9	4,796,809	3,180,015	244,145	23,470	263.2	13.6
<b>Des Plaines TB Clinic</b>	Medical Office	1991	1	N/A	185.6	241.5	601,067	462,061	19,411	3,958	32.0	12.9
<b>Logan Square Health Center</b>	Medical Office	1962	1	38	77.9	160.2	1,308,318	636,640	107,159	2,710	75.2	9.2
<b>Englewood Health Center</b>	Medical Office	2000	1	1	194.9	517.3	5,571,753	2,099,257	563,981	1,750	329.4	30.6
<b>Harvey TB Clinic</b>	Medical Office	1962	1	N/A	57.6	70.9	192,952	156,743	4,752	1,405	10.2	3.7
<b>Robbins Health Center</b>	Medical Office	2000	1	4	143.2	239.6	3,427,526	2,048,093	213,872	13,184	191.4	13.4
<b>Cicero Health Center</b>	Medical Office	1999	1	41	78.5	175	1,488,998	668,156	131,877	2,182	86.4	10.2
<b>Prieto Health Center</b>	Medical Office	1994	1	18	103.5	203.8	3,459,101	1,756,846	270,376	8,343	197.8	11.7
<b>Provident Hospital Pharmacy</b>	Medical Office	2005	1	6	129.2	361.9	2,379,907	849,967	249,111	0	141.4	21.5
<b>Rockwell Warehouse Garage</b>	Repair Services (Vehicle, Shoe, Locksmith, etc.)	1927	1	N/A	121.4	152.5	730,271	581,387	20,066	5,129	38.6	8.1
<b>Sheriff Central Warrants</b>	Police Station	1955	1	N/A	106.1	156.3	3,038,769	2,063,058	146,133	15,645	166.0	8.5
<b>Near South Health Center</b>	Medical Office	1994	1	10	162.4	275.1	3,134,876	1,849,937	199,706	11,685	175.4	15.4

NOTE: NO. OF BLDGS. IN ( ) INDICATE CAMPUS PORTFOLIOS WHERE THE BUILDINGS ARE COUNTED ELSEWHERE TO AVOID DOUBLE COUNTING

## Appendix B: 2018 Water Benchmarking Results

Water data from billing usage data sets and water use intensity calculations.

Facility Name	Type	City	TGAL Consumption	UOM	Water Intensity (gal/sq.. ft)	UOM
<b>DOC Campus</b>	PS	Chicago	<b>321,124</b>	1,000 Gallons	<b>60.78</b>	Gallons/sq. ft
<b>Oak Forest Hospital</b>	HH	Chicago	<b>94,290</b>	1,000 Gallons	<b>85.87</b>	Gallons/sq. ft
<b>JTDC Campus</b>	PS	Chicago	<b>21,389</b>	1,000 Gallons	<b>11.80</b>	Gallons/sq. ft
<b>Provident Hospital</b>	HH	Chicago	<b>17,855</b>	1,000 Gallons	<b>47.74</b>	Gallons/sq. ft
<b>Cook County Building</b>	CF	Chicago	<b>7,986</b>	1,000 Gallons	<b>12.51</b>	Gallons/sq. ft
<b>Rob't J. Stein Institute of Forensic Medicine</b>	PS	Chicago	<b>7,317</b>	1,000 Gallons	<b>92.19</b>	Gallons/sq. ft
<b>Markham Courthouse (6th Dist.)</b>	PS	Markham	<b>2,759</b>	1,000 Gallons	<b>8.69</b>	Gallons/sq. ft
<b>Maywood Courthouse (4th Dist.)</b>	PS	Maywood	<b>3,523</b>	1,000 Gallons	<b>19.06</b>	Gallons/sq. ft
<b>Rolling Meadows Courthouse (3rd District)</b>	PS	Rolling Meadows	<b>3,212</b>	1,000 Gallons	<b>9.58</b>	Gallons/sq. ft
<b>Domestic Violence Courthouse</b>	PS	Chicago	<b>1,381</b>	1,000 Gallons	<b>7.37</b>	Gallons/sq. ft
<b>Stroger Hospital Campus</b>	HH	Chicago	<b>13,082</b>	1,000 Gallons	<b>7.26</b>	Gallons/sq. ft
<b>Dunne Building</b>	CF	Chicago	<b>3,050</b>	1,000 Gallons	<b>3.71</b>	Gallons/sq. ft
<b>Edward Piszczek TB Clinic</b>	HH	Forest Park	<b>41</b>	1,000 Gallons	<b>2.11</b>	Gallons/sq. ft
<b>Bridgeview Courthouse (5th Dist.)</b>	PS	Bridgeview	<b>1,190</b>	1,000 Gallons	<b>3.55</b>	Gallons/sq. ft
<b>CCDOH District 5</b>	PS	Blue Island	<b>180</b>	1,000 Gallons	<b>2.30</b>	Gallons/sq. ft
<b>Hawthorne Warehouse</b>	CF	Chicago	<b>790</b>	1,000 Gallons	<b>1.60</b>	Gallons/sq. ft
<b>CCDOH District 4</b>	PS	Orland Park	<b>655</b>	1,000 Gallons	<b>9.58</b>	Gallons/sq. ft
<b>Jefferson Building</b>	PS	Maywood	<b>565</b>	1,000 Gallons	<b>11.97</b>	Gallons/sq. ft
<b>CCDOH District 1</b>	PS	Schaumburg	<b>154</b>	1,000 Gallons	<b>2.72</b>	Gallons/sq. ft
<b>Cottage Grove Medical Center</b>	HH	Chicago Heights	<b>33</b>	1,000 Gallons	<b>2.48</b>	Gallons/sq. ft
<b>Whitcomb Building</b>	PS	Maywood	<b>144</b>	1,000 Gallons	<b>6.19</b>	Gallons/sq. ft
<b>Robbins Health Center</b>	HH	Robbins	<b>181</b>	1,000 Gallons	<b>12.65</b>	Gallons/sq. ft
<b>CCDOH District 2</b>	PS	Des Plaines	<b>25</b>	1,000 Gallons	<b>0.40</b>	Gallons/sq. ft
<b>CCDOH District 3</b>	PS	LaGrange Park	<b>3,516</b>	1,000 Gallons	<b>75.90</b>	Gallons/sq. ft
<b>Cicero Health Center</b>	HH	Cicero	<b>31</b>	1,000 Gallons	<b>3.69</b>	Gallons/sq. ft
<b>Englewood Health Center</b>	HH	Chicago	<b>110</b>	1,000 Gallons	<b>10.21</b>	Gallons/sq. ft
<b>Logan Square Health Center</b>	HH	Chicago	<b>121</b>	1,000 Gallons	<b>14.81</b>	Gallons/sq. ft
<b>Des Plaines TB Clinic</b>	HH	Des Plaines	<b>216</b>	1,000 Gallons	<b>86.74</b>	Gallons/sq. ft
<b>Provident Outpatient Pharmacy</b>	HH	Chicago	<b>73</b>	1,000 Gallons	<b>11.12</b>	Gallons/sq. ft
<b>Skokie Courthouse (2nd District)</b>	PS	Skokie	<b>1,369</b>	1,000 Gallons	<b>3.96</b>	Gallons/sq. ft
<b>Ruth M. Rothstein Core Center</b>	HH	Chicago	<b>32</b>	1,000 Gallons	<b>1.02</b>	Gallons/sq. ft
<b>Provident Parking Structure</b>	PK	Chicago	<b>28</b>	1,000 Gallons	<b>0.1</b>	Gallons/sq. ft
<b>Rockwell Warehouse</b>	CF	Chicago	<b>43</b>	1,000 Gallons	<b>0.1</b>	Gallons/sq. ft
<b>Dr. Jorge Prieto Health Center</b>	HH	Chicago	<b>6</b>	1,000 Gallons	<b>0.37</b>	Gallons/sq. ft
<b>Hektoen Building</b>	HH	Chicago	<b>0</b>	1,000 Gallons	<b>0.0</b>	Gallons/sq. ft
<b>Harvey TB Clinic</b>	HH	Harvey	<b>202</b>	1,000 Gallons	<b>74.17</b>	Gallons/sq. ft
<b>Cicero Records Center</b>	CF	Cicero	<b>28</b>	1,000 Gallons	<b>0.11</b>	Gallons/sq. ft

\*Note: Water data was based on available billing information. A few of these sites are undergoing further analysis to ensure usage accuracy

# Appendix C: 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/ Leased	1906	638,592
CF.002.001	George W. Dunne Admin. Building- Main	69 W. Washington St.	Chicago	60602	Admin	Multiple	Owned	1964	787,888
CF.002.002	George W. Dunne Admin. Building- Generator Building	69 W. Washington St.	Chicago	60602	Admin	Multiple	Owned	2002	896
CF.003.001	CCHD Maintenance Fac. Dist. 1 - Bldg. A	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1954	16,159
CF.003.002	CCHD Maintenance Fac. Dist. 1 - Bldg. B	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1986	24,350
CF.003.003	CCHD Maintenance Fac. Dist. 1 - Bldg. C	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1995	8,241
CF.003.004	CCHD Maintenance Fac. Dist. 1 - Bldg. D	2325 N. Meacham Rd.	Schaumburg	60173	Garage	CCHD	Owned	1988	7,818
CF.004.001	CCHD Maintenance Fac. Dist. 2 - Bldg. A	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	2000	20,753
CF.004.002	CCHD Maintenance Fac. Dist. 2 - Bldg. B	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	2000	18,688
CF.004.003	CCHD Maintenance Fac. Dist. 2 - Bldg. C	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	1990	14,574
CF.004.004	CCHD Maintenance Fac. Dist. 2 - Bldg. D	9801 Ballard Rd.	Des Plaines	60016	Garage	CCHD	Owned	2000	7,896
CF.006.001	CCHD Maintenance Fac. Dist. 4 - Bldg. A	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1969	17,582
CF.006.002	CCHD Maintenance Fac. Dist. 4 - Bldg. B	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1975	4,000
CF.006.003	CCHD Maintenance Fac. Dist. 4 - Bldg. C	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1975	18,997
CF.006.004	CCHD Maintenance Fac. Dist. 4 - Bldg. D	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	1984	7,708
CF.006.005	CCHD Maintenance Fac. Dist. 4 - Bldg. E	8900 W. 135th St.	Orland Park	60462	Garage	CCHD	Owned	2007	20,157
CF.007.001	CCHD Maintenance Fac. Dist. 5 - Bldg. A	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	2002	24,794
CF.007.002	CCHD Maintenance Fac. Dist. 5 - Bldg. B	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	1987	45,636
CF.007.003	CCHD Maintenance Fac. Dist. 5 - Bldg. C	13600 S. Ashland Ave.	Riverdale	60827	Garage	CCHD	Owned	2002	7,662
CF.008.001	Rockwell Warehouse	2323 S. Rockwell St.	Chicago	60608	Storage	Multiple	Owned	1979	447,418
CF.009.001	Hawthorne Warehouse	4545 W. Cermak Rd.	Chicago	60623	Storage	Multiple	Owned	1905	354,672
CF.010.001	Public Administrator Warehouse	7232 N. Western Ave.	Chicago	60645	Storage/ Public Service	Administrator	Leased		7,709
PS.096.001	Cicero Records Center	1330 S. 54th Avenue	Cicero	60804	Storage	Circuit Court	Owned	2009	260,725

# 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	1927	324,438
PS.011.002	Criminal Court Admin. Building	2650 S. California Ave.	Chicago	60608	Admin	Multiple	Owned	1978	472,493
PS.011.003	RTU-RCDC	2750 S. California Ave.	Chicago	60608	Detention		Owned	2013	283,401
PS.011.004	DOC Central Chiller Plant	3045 S. Sacramento Ave.	Chicago	60608	Utility	Multiple	Owned	1990	18,225
PS.011.005	DOC Cermak Hospital	2800 S. California Ave.	Chicago	60608	Medical	CCHHS	Owned	1998	161,590
PS.011.006	DOC Div. II, Dorm I	2809 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1958	54,484
PS.011.007	DOC Div. II, Dorm II	2807 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1955	54,741
PS.011.008	DOC Div. II, Dorm III	2805 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1955	54,717
PS.011.009	DOC Div. II, Dorm IV	2803 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1972	45,203
PS.011.010	DOC Division I	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1929	344,268
PS.011.011	DOC Division III	2750 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1973	81,511
PS.011.012	DOC Division III Annex (RTU)	2811 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1985	78,023
PS.011.013	DOC Division IV	2649 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	122,362
PS.011.014	DOC Division IX	2834 W. 31st St.	Chicago	60608	Detention	Sheriff	Owned	1990	311,786
PS.011.015	DOC Division V	2708 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1978	364,560
PS.011.016	DOC Division VI	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1978	264,238
PS.011.017	DOC Division VII-Div I Annex	2604 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1929	68,088
PS.011.018	DOC Division X	2950 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1991	211,562
PS.011.019	DOC Division XI	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1995	630,380
PS.011.020	DOC Division XVII (Old Cermak Hospital)	2724 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1958	54,309
PS.011.021A	DOC Guard House A	2600 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	234
PS.011.021B	DOC Guard House B	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	2,064
PS.011.021C	DOC Guard House C	2600 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	58
PS.011.021D	DOC Guard House D	2950 S. California Ave	Chicago	60608	Detention	Sheriff	Owned	1976	249
PS.011.021E	DOC Guard House E	3000 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	167
PS.011.021F	DOC Guard House F	3026 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1970	1,392
PS.011.021G	DOC Guard House G	2828 W. 31st Street	Chicago	60608	Detention	Sheriff	Owned	1976	410
PS.011.021H	DOC Guard House H	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1956	156
PS.011.021I	DOC Guard House I	2801 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	234
PS.011.021J	DOC Guard House J	2717 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	234
PS.011.021K	DOC Guard House K	2950 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	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	1929	372
PS.011.022B	DOC Guard Tower B	2602 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1929	347
PS.011.022C	DOC Guard Tower C	Inside Campus	Chicago	60608	Detention	Sheriff	Owned	1991	272
PS.011.022D	DOC Guard Tower D	California - b/w Div. III & Div. X	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022E	DOC Guard Tower E	Inside Campus - b/w Old RTU	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022F	DOC Guard Tower F	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022G	DOC Guard Tower G	2901 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1955	284
PS.011.022H	DOC Guard Tower H	Sacramento - adj. to Div. VI	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022I	DOC Guard Tower I	2801 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022J	DOC Guard Tower J	2717 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1976	224
PS.011.022K	DOC Guard Tower K	Sacramento - Adj. to Div. I yard	Chicago	60608	Detention	Sheriff	Owned	1929	375
PS.011.022L	DOC Guard Tower L	Corner of Sacramento & 26th	Chicago	60608	Detention	Sheriff	Owned	1929	341
PS.011.022	DOC Guard Tower M	26th - NW corner of Div. I	Chicago	60608	Detention	Sheriff	Owned	1929	332
PS.011.022N	DOC Guard Tower N	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1999	402
PS.011.022O	DOC Guard Tower O	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1999	402
PS.011.022P	DOC Guard Tower P	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1999	402
PS.011.022Q	DOC Guard Tower Q	3015 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1999	402
PS.011.023	DOC Gym (Div. IV)	2649 S. Sacramento Ave	Chicago	60608	Detention	Sheriff	Owned	1976	31,292
PS.011.024	DOC Kitchen	2735 S. Sacramento Ave.	Chicago	60608	Detention	Sheriff	Owned	1994	95,904
PS.011.025A	DOC Powerhouse	3045 S. Sacramento Ave.	Chicago	60608	Utility	Sheriff	Owned	1957	22,622
PS.011.025B	DOC Powerhouse	3045 S. Sacramento Ave.	Chicago	60608	Utility	Sheriff	Owned	1992	3,716
PS.011.026	DOC South Campus Building 1	3026 S. California Ave.	Chicago	60608	Admin	Sheriff	Owned	1910	40,966
PS.011.027	DOC South Campus Building 2	3036 S. California Ave.	Chicago	60608	Admin	Sheriff	Owned	1910	89,011
PS.011.028	DOC South Campus Building 3	3026 S. California Ave.	Chicago	60608	Detention	Sheriff	Owned	1910	74,186
PS.011.029	DOC South Campus Building 4	2828 W. 31st St.	Chicago	60608	Detention	Sheriff	Owned	1910	49,346
PS.011.030	DOC South Campus Building 5	2840 W. 31st St.	Chicago	60608	Admin	Sheriff	Owned	1910	34,114
PS.011.031	Boot Camp Building #1	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	8,432
PS.011.032	Boot Camp Building #2	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	8,432
PS.011.033	Boot Camp Building #3	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	8,432
PS.011.034	Boot Camp Building #4	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	8,432
PS.011.035	Boot Camp Building #5	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	5,429
PS.011.036	Boot Camp Building #6	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	7,707

# 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	1996	10,400
PS.011.038	Boot Camp Building #8	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	6,814
PS.011.039	Boot Camp Building #9	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	6,267
PS.011.040	Boot Camp Building #10	2801 S. Rockwell St.	Chicago	60608	Detention	Sheriff	Owned	1996	1,847
PS.011.041	DOC Tunnels	2700 S. California Ave.	Chicago	60608	Utility	Sheriff	Owned	1955	45,600
PS.011.044	DOC Parking Structure	26th/California	Chicago	60608	Parking	Sheriff	Owned	1976	463,597
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	1993	412,596
PS.015.001	Markham Courthouse (6 <sup>th</sup> Dist.)	16501 S. Kedzie Ave.	Markham	60428	Courts	Circuit Court	Owned	1977	317,652
PS.029.001	Jefferson Building	1401 Maybrook Dr.	Maywood	60153	Sheriff	Multiple	Owned	1965	47,254
PS.030.001	Sheriff Training Academy	1401 Maybrook Dr.	Maywood	60153	Police	Sheriff	Owned	1967	21,687
PS.031.001	Whitcomb Building	1311 Maybrook Dr.	Maywood	60153	Admin	Multiple	Owned	1965	23,217
PS.016.001	Maywood Courthouse (4 <sup>th</sup> Dist.)	1500 Maybrook Dr.	Maywood	60153	Courts	Circuit Court	Owned	1975	184,841
PS.017.001	Rolling Meadows Courthouse (3 <sup>rd</sup> District)	2121 Euclid Ave.	Rolling	60008	Courts	Circuit Court	Owned	1987	335,205
PS.017.002	Rolling Meadows Courthouse Parking Structure	2121 Euclid Ave.	Rolling	60008	Parking	Circuit Court	Owned	1987	554,767
PS.018.001	Skokie Courthouse (2 <sup>nd</sup> District)	5600 Old Orchard Rd.	Skokie	60077	Courts	Circuit Court	Owned	1980	345,743
PS.018.002	Skokie Courthouse (2 <sup>nd</sup> Dist.) Parking Structure	5600 Old Orchard Rd.	Skokie	60077	Parking	Circuit Court	Owned	2002	483,451
PS.022.001	Bridgeview Courthouse (5 <sup>th</sup> Dist.)	10220 S. 76 <sup>th</sup> Ave.	Bridgeview	60455	Courts	Circuit Court	Owned	1989	335,205
PS.028.001	Juvenile Temp. Detention Center	1100 S. Hamilton Ave.	Chicago	60612	Detention	Circuit Court	Owned	1974	611,255
PS.028.002	JTDC Parking Structure	1101 S. Hamilton Ave.	Chicago	60612	Parking	Circuit Court	Owned	1993	788,777
PS.096.001	Clerk of the Circuit Ct. Warehouse	1330 S. 54 <sup>th</sup> Avenue	Cicero	60804	Storage	Circuit Court	Owned	2009	260,725
CF.005.001	CCHD Maintenance Fac. Dist. 3 - Bldg. A	901 W. 26 <sup>th</sup> St.	LaGrange	60526	Garage	Sheriff	Owned	1950	24,469
CF.005.002	CCHD Maintenance Fac. Dist. 3 - Bldg. B	901 W. 26 <sup>th</sup> St.	LaGrange	60526	Garage	Sheriff	Owned	1950	19,823
CF.005.003	CCHD Maintenance Fac. Dist. 3 - Bldg. C	901 W. 26 <sup>th</sup> St.	LaGrange	60526	Garage	Sheriff	Owned	1985	2,031



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



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

# Health & Hospitals (HH)

Property ID	Property Name	Address	City	Zip Code	Primary Use	Dept./ Agency	Owned / Leased	Year	GSF
HH.051.001	Hektoen Building	627 W. Wood St.	Chicago	60612	Admin/Lab	CCHHS	Owned	1964	146,477
HH.052.001	Rob't J. Stein Institute of Forensic Med	2121 W. Harrison St.	Chicago	60612	Medical	Admin	Owned	1982	79,368
HH.054.001	Ruth M. Rothstein Core Center	2020 West Harrison St.	Chicago	60612	Clinic	CCHHS	Owned	1998	31,550
HH.063.001	Cottage Grove Health Center	1645 Cottage Grove Ave.	Ford Heights	60411	Clinic	CCHHS	Owned	2000	13,370
HH.065.001	Piszczek TB Clinic	7556 W. Jackson Blvd.	Forest Park	60130	Clinic	CCHHS	Owned	1957	19,352
HH.064.001	Des Plaines TB Clinic	9325 Church St.	Des Plaines	60016	Clinic	CCHHS	Owned	1991	2,489
HH.069.001	Logan Square Health Center	2840 W. Fullerton Ave.	Chicago	60647	Clinic	Public Health	Owned	1962	8,169
HH.066.001	Englewood Health Center	1135 W. 69th St.	Chicago	60621	Clinic	CCHHS	Owned	2000	10,770
HH.068.001	Harvey TB Clinic	15948 S. Halsted St.	Harvey	60426	Clinic	CCHHS	Owned	1962	2,723
HH.053.001	Robbins Health Center	13450 S. Kedzie Ave.	Robbins	60472	Clinic	ACHN	Owned	2000	14,306
HH.056.001	Cicero Health Center	5912 W. Cermak Rd.	Cicero	60804	Clinic	ACHN	Leased	1999	8,509
HH.058.001	Prieto Health Center	2424 S. Pulaski Rd.	Chicago	60623	Clinic	ACHN	Owned	---	16,972
HH.059.001	Near South Health Clinic	3525 S. Michigan Ave.	Chicago	60653	Clinic	ACHN	Leased	1994	11,394

## Appendix D: Assumptions for Calculations

- **Energy:**

Source energy is used for all performance metrics in Cook County's portfolio for the 2019 Benchmarking Report. Source energy accounts for losses that are incurred in the storage, transport, and delivery of fuel to the building.

- **GHG Emissions:**

This report looks only at building greenhouse gas Scope 2 emissions from electricity and natural gas use. Greenhouse gas percentage values may differ from 2010 reduction goals to achieve the 100% reduction by 2050 as not all buildings are benchmarked and the baseline years differ. The first Benchmarking Report was issued in 2013 and additional facilities were phased in during subsequent years based on square footage brackets determined in the Benchmarking Ordinance. Therefore, benchmarking uses year to year comparisons for GHG emissions as the most accurate method.

- **Water:**

Water usage data was compared on a building by building basis to get a full year of data. As water billing happens at different frequencies rather than monthly, annual totals were calculated based on a full year coherent with the facility's billing cycle. Since this is only the third full year of water data, outlying values are in progress of being understood and for the time being are assumed to be different than expected due to billing differences, infrastructure leaks, etc.