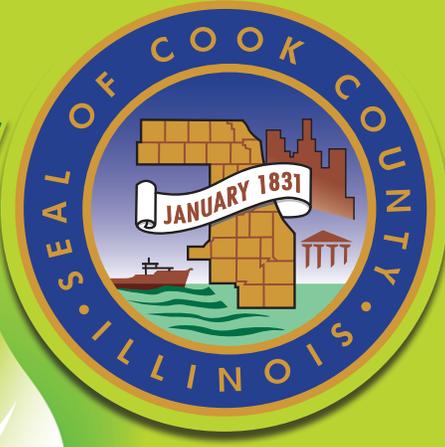


Cook County



SUSTAINABILITY

2014 Sustainability Report

August 2014

PREPARED BY THE COOK COUNTY GREEN LEADERSHIP TEAM

Recognition for Leadership in Sustainability

- President Preckwinkle won the Midwest Energy Efficiency Alliance's Leadership for Energy Efficiency Award in 2014.
- The County was recognized for sustainability work at the 2014 Chicago Innovation Awards ceremony.
- The Demolition Debris Diversion Ordinance won an award for progressive policy from the Building Material Reuse Association in 2013.



Pictured with President Preckwinkle at the Midwest Energy Efficiency Alliance's Award Ceremony are from left to right: Herman Brewer, Bureau of Economic Development, Deborah Stone, Department of Environmental Control, and John Cooke, Department of Capital Planning.

Climate change is a global phenomenon with extremely local impacts. The average annual global temperature is increasing, and severe weather events are becoming more frequent. The current trajectory poses risks to our economy, homes, infrastructure and health.

In Cook County, that means we need to act now to reduce our emissions of Greenhouse Gases (GHG) but also to prepare for climate changes that cannot be avoided. To take on this challenge, in 2012 Cook County Board President Preckwinkle appointed a Sustainability Advisory Council to make recommendations on how the County can reduce its own carbon footprint and be a sustainability leader for our residents and communities. President Preckwinkle adopted the goal recommended by her Sustainability Advisory Council in their June 2013 report, to reduce the County's Greenhouse Gas emissions 80% by the year 2050.

The Council called on the President to continue to establish a data-driven approach to institutionalizing sustainability throughout the County and report annually on progress made towards the goal.

As a part of this effort, President Preckwinkle created the Green Leadership Team comprised of Bureau Chiefs and representatives from Offices across County operations, chaired by Tasha Cruzat, Deputy Chief of Staff, and staffed by the County's Chief Sustainability Officer.

This group is advancing the President's sustainability agenda on many fronts:

- **Community Leadership**
- **Smaller Environmental Footprint**
- **Cost Savings & Transparency**

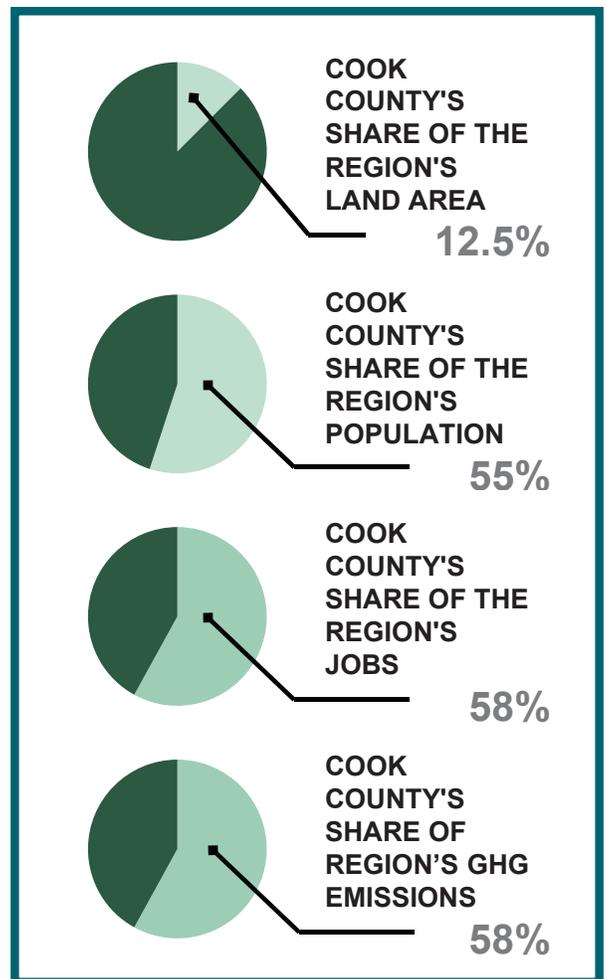
This report details progress made in the last year.

For more detailed information and case studies, log on at: <http://blog.cookcountyil.gov/sustainability/>.

COMMUNITY LEADERSHIP

The County level of government is well suited to address issues that, like sustainability, cross local boundaries. When Cook County's 130 municipalities lack the resources for strategic planning the County can step in and help communities coalesce around opportunities that will yield greater returns if pursued jointly.

Cook County is looking towards the future with long range planning that will help limit GHG emissions and also help its communities adapt to a changing climate.



Hazard Mitigation Plan

The Cook County Department of Homeland Security and Emergency Management is implementing the County's first Hazard Mitigation Plan to support emergency preparedness, improve response and recovery in order to reduce natural disaster losses and break the cycle of disaster damage, reconstruction and repeat damage.

The plan recognizes that climate change can impact and create an increased risk for hazards such as flooding and heat waves. The planning process is participatory, involving most of the County's 130 municipalities, as shown by the Planning Partner map. <http://www.cookcountyhomelandsecurity.org/wp-content/uploads/2013/10/CookCountyHMP-InfoBulletin03-Sept2013.pdf>

2040 Long Range Transportation Plan

For too long, the County invested transportation dollars only on routes under its jurisdiction, and was not engaged with others in creating a broader vision with greater impact. The County is breaking out of this mold and using its resources to

leverage other public dollars, attract private investment, and support dense, mixed-use connected communities.

Transportation and logistics is a critical industry sector for jobs in Cook County. Efficient communities with good access between where people live and work are also more sustainable and result in fewer per capita emissions from fuel use.

Benefits of the Hazard Mitigation Plan

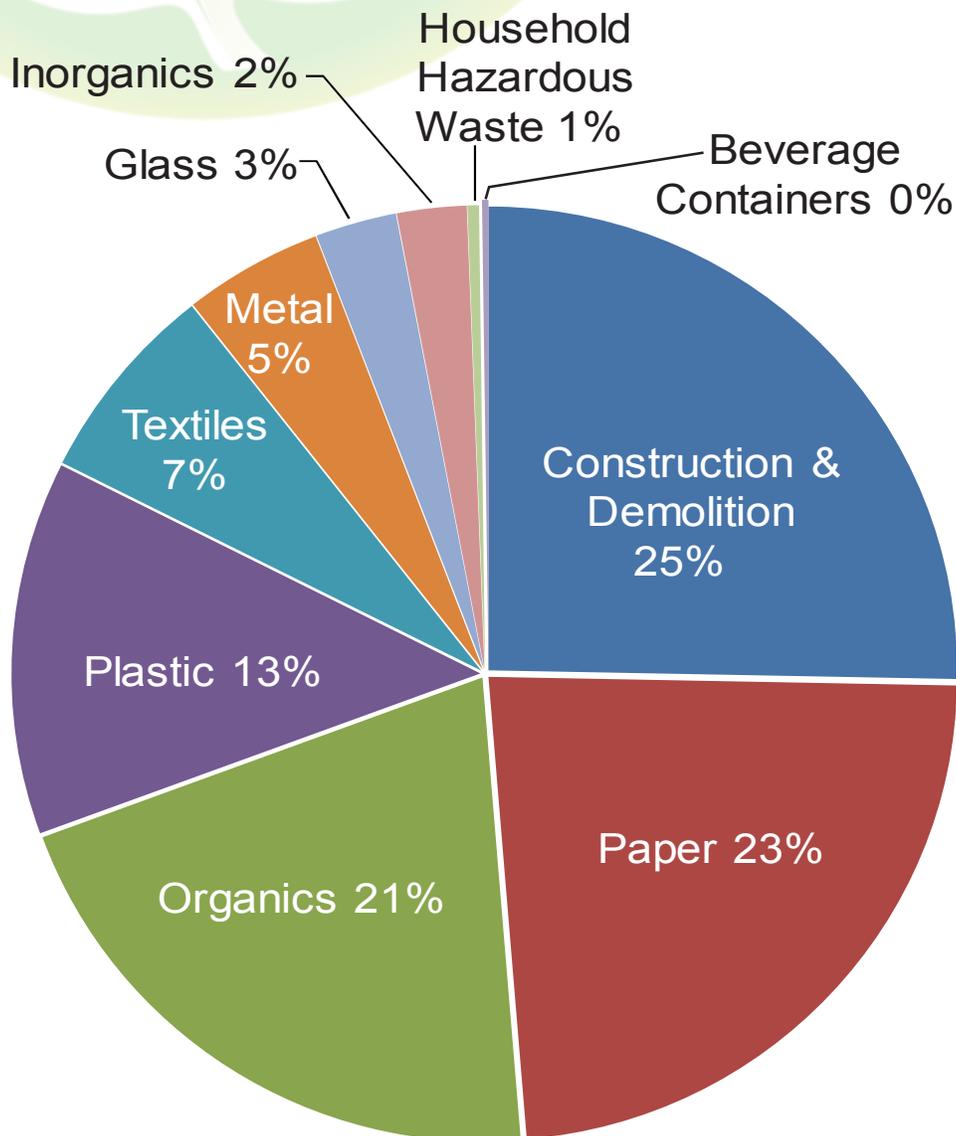
- Access to federal funds for the County and participating municipalities.
- Meets FEMA planning requirements for the National Flood Insurance Program and the Community Rating System (CRS).
- CRS allows participating communities to earn credit towards discounts on flood insurance.
- Identifies cost effective ways to reduce risk, focusing resources on the greatest vulnerabilities, communicating our priorities to federal and state officials, and building partnerships among people, businesses and organizations.
- Every \$1 of FEMA money spent on mitigation saves \$4.

Waste Plan

In 2012 the Cook County Board approved the county's Solid Waste Management Plan update, the first in a dozen years. That plan highlighted that some areas of the county recycle at only the state mandated 25% recycling rate – or less. In addition, several communities generate waste at per capita rates significantly higher than the

national average. The plan also cited a lack of coherent information regarding diversion of waste from landfills. To address these concerns the County Board has passed two ordinances: the Demolition Debris Diversion Ordinance in 2013 and the Solid Waste and Recycling Ordinance in 2014.

COMPOSITION OF LANDFILLED MUNICIPAL SOLID WASTE BY MATERIAL CLASS



The Demolition Debris Diversion Ordinance

Requires demolition contractors to divert 70% of the demolition debris by weight with an additional requirement for 5% by weight to be diverted for residential demolitions.

In its first 16 months, 90% of materials from demolitions and renovations in suburban Cook County (over 400,000 tons) were diverted from landfills.

Solid Waste and Recycling Ordinance

Requires waste hauler reporting of municipal waste and recycling by municipality beginning in third quarter of 2014 and non-residential reporting beginning in 2015. The data will serve to focus the county's approach in assisting communities to increase waste diversion.

SMALLER ENVIRONMENTAL FOOTPRINT

Energy

Reduce emissions from energy use by 80% by 2050.

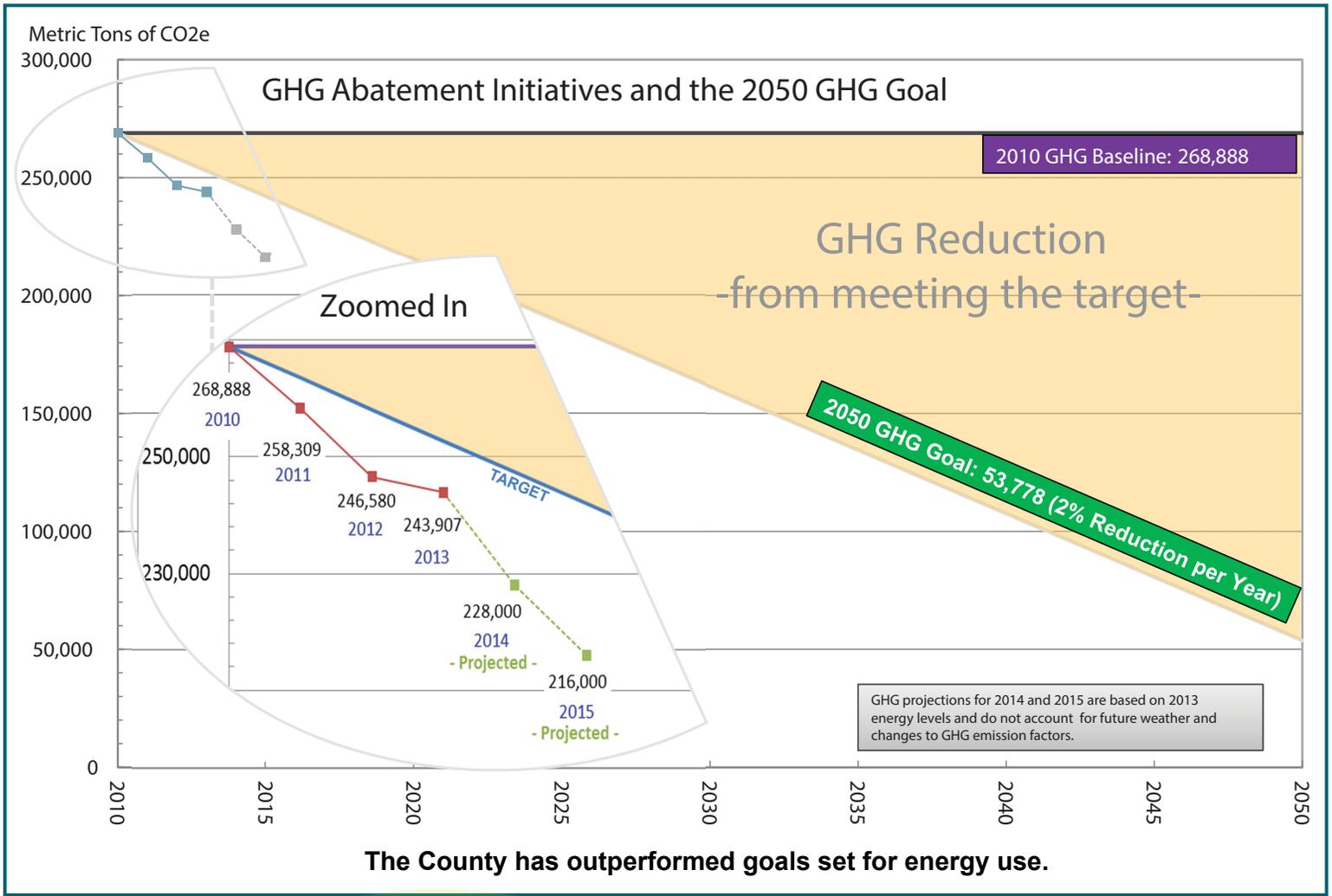


The Council recommended that an Energy Manager be hired to coordinate energy efficiency projects, track energy use and lead the charge towards renewable energy use at the County. This position was filled in early 2014. For 2013, Cook County is ahead of

the 2% per year reduction target in decreasing its GHG emissions from building energy use, and the County is taking aggressive steps through Guaranteed Energy Performance Contracts to further reduce its building energy use.

2013 Cook County GHG Emissions from Buildings

TARGET: 6% decrease from 2010 **ACTUAL:** 9% decrease



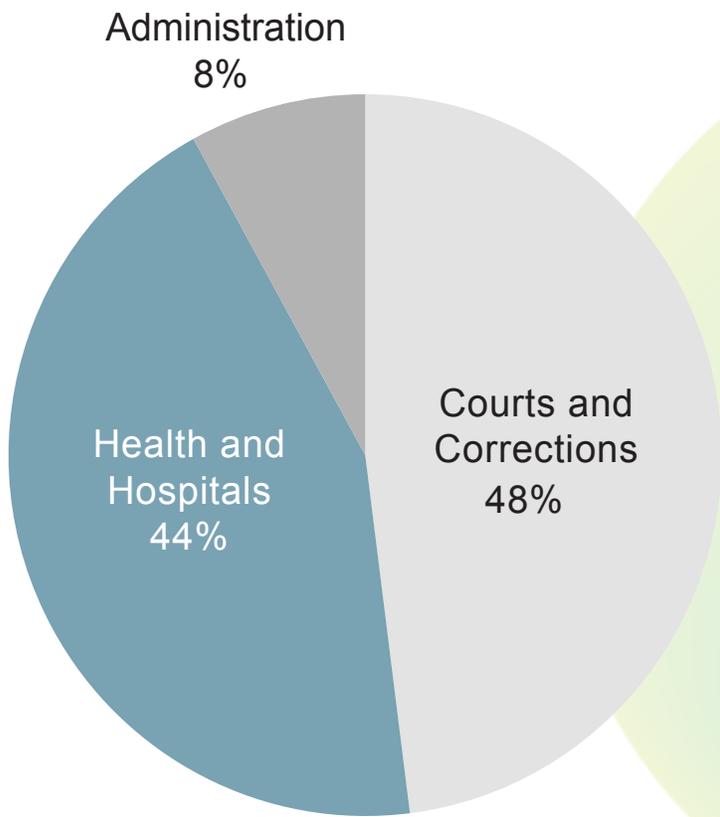
WATER

WATER GOAL Reduce water use 30% by 2025

Following the data collection, analysis and implementation strategy laid out by the Council and already in place for energy and fleet, the County will begin water conservation efforts by establishing a usage baseline beginning in July of this year. The City of Chicago is currently installing new automated meter readers at the Department of Corrections and other County facilities. This will allow meters

to be read without entering these secure facilities, and give the County timely data on its actual water use. The smaller amounts of water purchased by the County from several suburbs is also being analyzed.

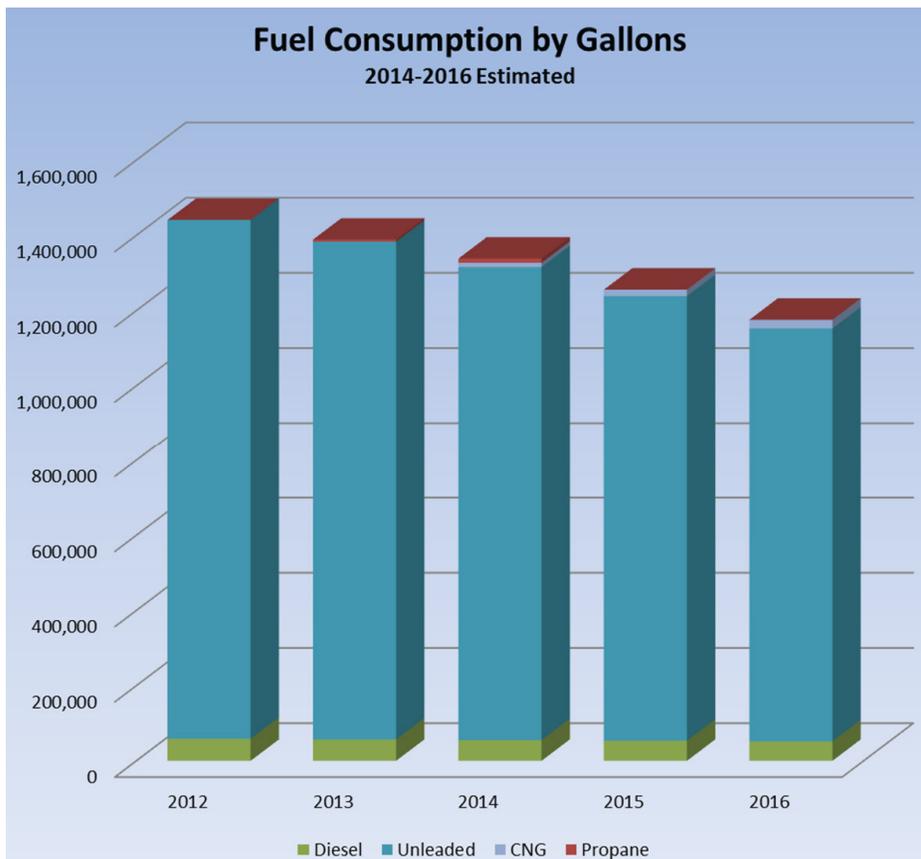
Water efficiency measures are now being included in new energy projects, recognizing that both are critically important.



2012 ANNUAL CITY OF CHICAGO WATER USAGE BY COOK COUNTY BUILDINGS

FLEET

Reduce emissions from fuel use 80% by 2050.



In 2013 a comprehensive fleet assessment of all vehicle assets owned and operated by the County estimated that a reduction of 2,386 metric tons (18%) of GHG emissions could be achieved from a 2012 baseline if all of the recommendations are followed. The County has met the 4% 2014 target for fuel use reduction. In addition to decreasing GHG emissions, sustainability at the County has a financial benefit.

WASTE

WASTE GOAL

Divert 50% of waste from landfills by 2025.

Garbage and recycling functions are fragmented across many County agencies. For the first time, a comprehensive baseline of waste and recycling is being developed. This will allow the County to divert more waste

from landfills and to put materials back into the economy, as well as save money by strategically changing its purchasing practices to create less waste.

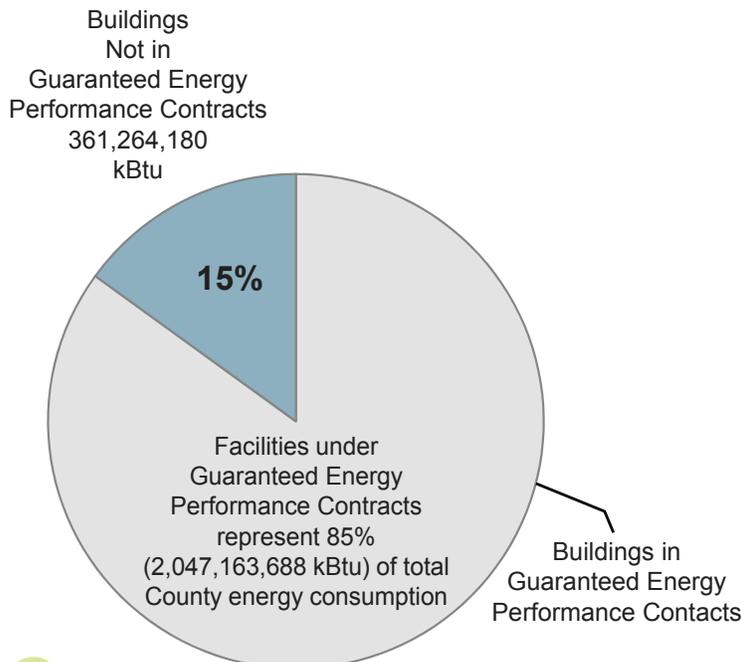
COST SAVINGS AND TRANSPARENCY

ENERGY

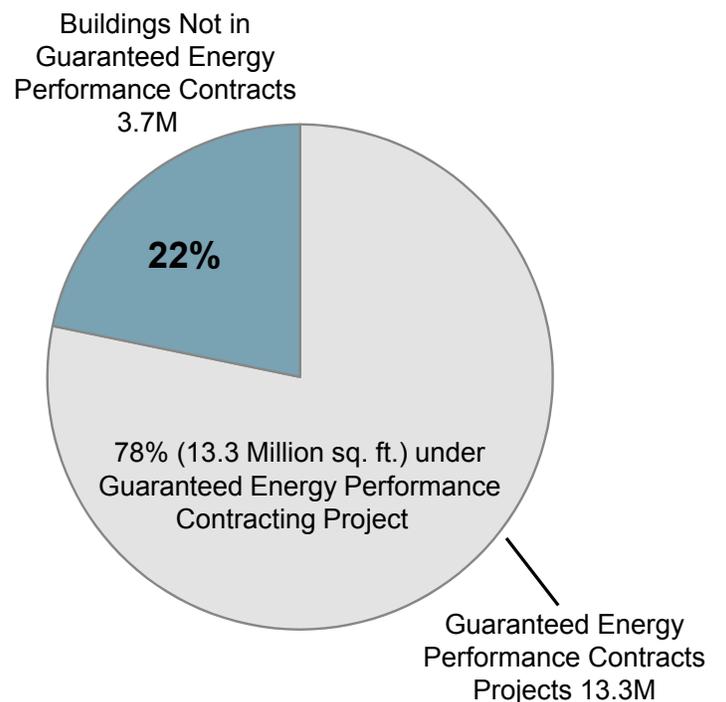
In 2012 the County began the largest single-phase Guaranteed Energy Performance Contracts (GEPC) ever undertaken by a County. The contracts, for the period of 2012

to 2015, were for \$34M for the Department of Corrections Campus and \$26M for Stroger Hospital Campus. The \$60 million cost of these measures is financed by the energy

COUNTY BUILDINGS PORTFOLIO ENERGY USAGE



COUNTY BUILDINGS PORTFOLIO SQUARE FOOTAGE



savings that result from the project. The Energy Service Companies (ESCOs) are financially responsible if a shortfall occurs. These GEPC will result in an estimated annual utility savings of \$4.2M and a projected GHG Emission reduction of 22% at DOC and 19% at Stroger campus.

A second GEPC was recently approved for 11 facilities. This along with the Hospital and DOC campus GEPCs will result in 78% of the County's square footage being under a GEPC project.

In June 2014, President Preckwinkle introduced an ordinance to the County Board, calling for annual tracking and reporting of energy and water use for all County buildings over 35,000 square feet.

FLEET

The County implemented a shared fleet and Zipcar program that saved approximately \$250,000 in the first year. These savings were achieved through a reduction in the County fleet and associated costs including fuel, maintenance, and insurance, as well as

Guaranteed Energy Performance Contracts Financial & Economic Impacts

\$60 Million Total Project Cost

\$4.2 Million Annual Savings

\$89 Million Energy Savings Over the Project Terms

\$3.6 Million in Energy Efficiency Rebates/Grants Utilized

600+ Local Construction Jobs Created

34%-38% MBE/WBE Participation

reduced mileage reimbursement costs. Through these programs and other changes, the County achieved a 4% reduction in the amount of fuel used in 2013 from 2012, saving about \$330,500.



COOK COUNTY GREEN LEADERSHIP TEAM

APPOINTED BY COOK COUNTY BOARD PRESIDENT TONI PRECKWINKLE

MEMBERS

TASHA CRUZAT

Deputy Chief of Staff, Chair

HERMAN BREWER

Chief, Bureau of Economic Development

CARL BYRD

Chief Administrative Officer

TOM DART

Sherriff

SIMONA ROLLINSON

Chief Information Officer

DR. JOHN JAY SHANNON

Interim Chief Executive Officer, Cook County Health and Hospitals System

DR. ANTHONY RAJKUMAR

Chief Business Officer, Cook County Health and Hospitals System

IVAN SAMSTEIN

Chief Financial Officer

DEBORAH STONE

Chief Sustainability Officer

SUBCOMMITTEE PRIMARY STAFF

JERRY PRAY

Fleet Manager, Bureau of Administration: Fleet

TONY DOVER

Energy Manager, Capital Planning: Energy and Water

CHRISTOPHER LIPMAN

Solid Waste Coordinator, Department of Environmental Control: Waste and Recycling

THANK YOU!

To the Cook County Sustainability Advisory Council
(appointed in 2012 by Cook County Board President Toni Preckwinkle)
for their invaluable advice and support on Cook County's "sustainability journey".

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Joseph P. Kennedy Enterprises, Inc.

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ComEd

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Program Manager,
Environment
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Village of Oak Park

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Shelton Solutions, Inc.

KATHY THOLIN

Chief Executive Officer
Center For Neighborhood Technology

EUGENE WILLIAMS

Mayor
Village of Lynwood

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Consultant to Housing Authority of Cook County

ALESIA HUSHAW

Senior Financial Analyst
Housing Authority of Cook County

KATE TOMFORD

Chief Sustainability Policy Advisor
Illinois Dept. of Commerce and Economic Opportunity

KAREN WEIGERT

Chief Sustainability Officer
City of Chicago

Staffed by Cook County Sustainability Officer and Department of Environmental Control