

2015 SUSTAINABLE CHICAGO

ACTION AGENDA

YEAR TWO PROGRESS REPORT FALL 2014

1 ECONOMIC
DEVELOPMENT AND
JOB CREATION

2 ENERGY EFFICIENCY
AND CLEAN ENERGY

3 TRANSPORTATION
OPTIONS

4 WATER AND
WASTEWATER

5 PARKS,
OPEN SPACE AND
HEALTHY FOODS

6 WASTE AND
RECYCLING

7 CLIMATE
CHANGE





OFFICE OF THE MAYOR

CITY OF CHICAGO

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Dear Friends,

Two years ago I put forward the *Sustainable Chicago 2015 Action Agenda* to chart our course to a more livable, competitive and sustainable future. This report marks the second annual update and we are pleased to share how far we have come. The City, joined by residents and partners, is delivering. We are on track across each of our seven strategic themes and we are moving forward in our pursuit of the underlying 24 goals. As we deliver on sustainability we are growing our economy, creating jobs across our city, and strengthening our neighborhoods.

This second year of *Sustainable Chicago 2015* has seen actions and impact throughout our economy and our neighborhoods. The clean tech and sustainability ecosystems have grown with new co-working spaces and programming. Our residential energy transformation continued with growth in Retrofit Chicago and now Solar Chicago. Residents can move more easily throughout our city thanks to a stronger CTA, more biking options and rideshare. Our neighborhoods are healthier more, livable places – home to green infrastructure investments, over 100 parks that have been rebuilt, repaired, and refurbished through Chicago Plays! and the city-wide Blue Cart recycling program. And all of our residents continue to live in neighborhoods that are coal free; we are pleased to strengthen this commitment by purchasing the City's own power coal free.

While we have worked to deliver on our sustainability vision Chicago has become the number one city for corporate relocations and the number one city that people are moving to. Our investments are paying dividends. Looking forward, Chicago residents will continue to see the benefits in neighborhoods across the city.

There is a role for everyone in making Chicago more sustainable. We welcome your feedback: sustainability@cityofchicago.org

Sincerely,



Rahm Emanuel

Rahm Emanuel

Mayor

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PLEASED TO SEE THIS
#GREENALLEY IN MY NEIGHBORHOOD
[@ANDERSONEJ](#) (VIA TWITTER)

17% OF CHICAGO IS COVERED BY TREES AND THEY REMOVE 25,000 TONS OF CARBON AND 900 TONS OF AIR POLLUTION EVERY YEAR.
-[@JOHNCHARLESTON](#)
(VIA TWITTER)

“OUR ACTIONS SUPPORTING CHICAGO'S SUSTAINABILITY REFLECT OUR BELIEF THAT WHEN WE ALL WORK TOGETHER, REAL PROGRESS HAPPENS”
-STEVE CAHILLANE, PRESIDENT & CEO, COCA-COLA AMERICAS

BIKING #CHICAGO
THIS SUMMER HAS BEEN AMAZING
-[@OLITREADWELL](#)
(VIA TWITTER)

“THROUGH PROGRAMS AND PUBLIC-PRIVATE PARTNERSHIPS, SUCH AS THE CURBSIDE CART PROGRAM, WE ARE ABLE TO ENCOURAGE INDIVIDUALS TO TAKE GREATER RESPONSIBILITY FOR IMPROVING THEIR COMMUNITY'S ENVIRONMENT.”
- MATTHEW MCKENNA, PRESIDENT AND CEO, KEEP AMERICA BEAUTIFUL

“CHICAGO'S LAKEFRONT IS THE ENVY OF THE WORLD.”
- ILLINOIS TRANSPORTATION SECRETARY ANN L. SCHNEIDER



SUSTAINABILITY COUNCIL

The Sustainability Council is a group of department leaders, chaired by Mayor Emanuel, committed to achieving the goals of the *Sustainable Chicago 2015 Action Agenda* and delivering a more livable, competitive and sustainable Chicago.

Chairman

Rahm Emanuel, Mayor

Chief Sustainability Officer

Karen Weigert

Chicago Department of Aviation

Rosemarie S. Andolino, Commissioner

Department of Buildings

Felicia Davis, Commissioner

Department of Fleet and Facility Management

David Reynolds, Commissioner

Department of Planning and Development

Andrew J. Mooney, Commissioner

Department of Procurement Services

Jamie Rhee, Chief Procurement Officer

Department of Streets and Sanitation

Charles L. Williams, Commissioner

Department of Transportation

Rebekah Scheinfeld, Commissioner

Department of Water Management

Thomas H. Powers, P.E., Commissioner

Office of Budget and Management

Alexandra Holt, Budget Director

INTRODUCTION

Mayor Emanuel released the *Sustainable Chicago 2015 Action Agenda* with the vision of making Chicago the most livable, competitive, and sustainable city in the 21st century. Seven categories and 24 goals structure the work that is critical to our city's strength today and in years to come.

In the second year of the *Sustainable Chicago 2015's* implementation, we are proud to report that Chicago has continued to make progress and the plan is on track (see key for goals and actions progress on page 4). Four of these goals, one each in the categories of Energy Efficiency and Clean Energy, Water and Wastewater, Waste and Recycling, and Climate Change, supported by the underlying actions, have substantially advanced their progress.

DELIVERING THROUGH INNOVATION

Over two years of implementing the agenda, the City, partners, and stakeholders found new ways to advance the seven categories delivering innovative ideas and projects that were not included in the original plan. These actions have driven innovation across all seven categories:

Economic Development and Job Creation:

- Chicago Cleanweb Challenge hackathon series connected residents and programmers to compete in creating data driven solutions for sustainability
- Greencorps Chicago Youth Program provides high school students summer learning and workforce training in horticulture and bicycling

Energy Efficiency and Clean Energy:

- Chicago became the first city to include online energy disclosure in residential home sale listings
- Solar Chicago bulk purchase program offered solar at the best-ever price to Chicago residents and exceeded the number of expected signups

Transportation Options:

- City put the first all electric refuse truck in North America into service
- Launched Drive Electric Chicago, a one-stop shop website for residents on electric vehicles, including charging station installation guidelines for multi-unit buildings
- Sustainable Urban Infrastructure Guidelines adopted for public right-of-way design and construction

Water and Wastewater:

- Space to Grow partnership built green infrastructure projects on Chicago Public School campuses
- The University of Chicago and Israel's Ben-Gurion University launched a partnership targeting water resource innovations using nanotechnology

Parks, Open Space and Healthy Food:

- Large Lots Program offered City-owned vacant lots to local residents, block clubs, and community organizations for \$1

Waste and Recycling:

- City and the Metropolitan Water Reclamation District agreed to partner in reusing tree waste in water treatment, and compost wastewater treatment byproduct to fertilize Chicago Park District open spaces
- City council passed a plastic bag ban for large retail stores

Climate Change:

- Petcoke ordinance banned new petcoke, coke and coal facilities and prohibited the expansion of existing facilities
- Coal-free power procured for all municipal facilities
- CITY IN A GARDEN poster contest asked the design community to produce visually creative art illustrating what a sustainable Chicago means to them; winning entries featured on page 13.

In the third and final year of Sustainable Chicago 2015, we look to continue our progress and lay the groundwork for Chicago's leadership in sustainability in 2016 and beyond.

REFER TO THIS KEY FOR GOALS AND ACTIONS PROGRESS

GOAL PROGRESS: EARLY  MODERATE  ADVANCED 

RESIDENT ENGAGEMENT OPPORTUNITY: 



1 | ECONOMIC DEVELOPMENT AND JOB CREATION

Accelerating sustainability and strengthening the economy can go hand in hand. This second year of implementation of *Sustainable Chicago 2015* saw results due to a strong tradition of hard work and innovation. Chicago has risen to second in the nation for fast growing small businesses. Additionally, Chicago was the largest city named to Money Magazine's list of "best places to live in America."

Over the last year, multiple sustainability related efforts launched or expanded. Divvy continued to delight riders across the city with 2.7 million trips on its 3,000 bikes. Residents in all of Chicago are now able to participate in recycling at home. And Chicago residents enjoy electricity that is coal-free and live in neighborhoods that no longer produce coal.

From clean tech to local food, the eco-system for emerging companies has expanded. City Colleges and CPS will help educate the talent base of the future, expanding their offerings in STEM. Method, a global leader in green cleaning products broke ground on its first ever US manufacturing facility in Pullman. Illinois Institute of Technology, with partners, launched a new lab focused on researching, testing and analyzing smart grid and smart city technology innovations in a real-world environment; and innovation related to food expanded with the Englewood Entrepreneurial Workshop Series and a new food focus at 1871.



SPOTLIGHT INVESTING

The clean tech and sustainability eco-system in Chicago has expanded rapidly providing unique opportunities for space, support and funding for emerging enterprises. The Energy Foundry is the anchor tenant of a growing clean tech co-working space and the Foundry made its investments from its venture fund for energy companies. The Clean Energy Trust will invest \$2.3 million of State of Illinois funds in clean tech companies, awarded \$500,000 through its annual Clean Energy Challenge competition and was awarded Department of Energy funding to launch with Midwest Innovation Bridge, partnering large companies with local clean tech researchers and startups.



891

Greencorps Chicago Youth Program Participants

\$2.3m

To be awarded through the Clean Energy Trust

#1

Chicago's ranking as a green purchaser from Office Depot



GOAL PROGRESS

1 ESTABLISH CHICAGO AS A HUB FOR THE GROWING SUSTAINABLE ECONOMY

The Chicago Innovation Exchange, the innovation campus at the University of Chicago, was launched. Housing a business incubator, a \$20 million seed investment fund, and programming for entrepreneurs, the CIE will work to commercialize research ideas and support entrepreneurship on the South Side. Additionally, the CIE will partner with the Chicago Department of Public Health on a program aimed at finding innovative approaches to public health challenges using interdisciplinary teams of University researchers and students and non-health data from CDPH. Looking ahead, the CIE will launch a shared office space that includes the Argonne National Laboratory, Fermi National Accelerator Laboratory, and Marine Biological Laboratory, creating the first ever location for these research institutions in Chicago to be together under one roof.

2 ACCELERATE THE ECONOMY IN CHICAGO BY ASSISTING PEOPLE AND COMPANIES IN ADOPTING SUSTAINABLE PRACTICES

In its second summer the Greencorps Chicago Youth Program expanded from 600 students in 2013 to serve 891 high school students from Chicago Public Schools. This partnership between the Department of Family and Support Services, Chicago Department of Transportation and the Mayor's Office worked with from 23 high schools. All students received in classroom learning as well as field experience through a paid summer program with a 10:1 student to instructor and mentor ratio.



PARTNER SUCCESS

Truman College became the seventh City Colleges of Chicago institution with a College to Careers focus. Truman will strengthen the foundation in science and related careers and serve as a hub in education, human and natural sciences. The College to Careers program aims to close the skills gap, ensuring Chicago residents are prepared for jobs in high growth industries.



2015 LOOK AHEAD

- » Method Plant opens in Pullman
- » Green Sports Alliance conference
- » First session of Cleantech Innovation Bridge
- » Launch of ComEd after school vocational training program in ComEd's new Chicago Training Center for CPS and CCC Dawson Tech students

2 | ENERGY EFFICIENCY AND CLEAN ENERGY

Energy use in Chicago is transforming across building types with an acceleration of energy efficiency and expanded opportunities for cleaner energy sources.

The City is committed to helping residents and businesses save energy and money with programs like Retrofit Chicago, Mayor Emanuel's energy efficiency initiative to retrofit homes, municipal and commercial buildings. The opportunity for savings and impact is great—with \$3 billion in energy costs and 71% of the City's greenhouse gas emissions coming from heating, cooling, and operating buildings. To support action, the City is accelerating energy data transparency with implementation of the Chicago Energy Benchmarking ordinance to track and improve energy management.

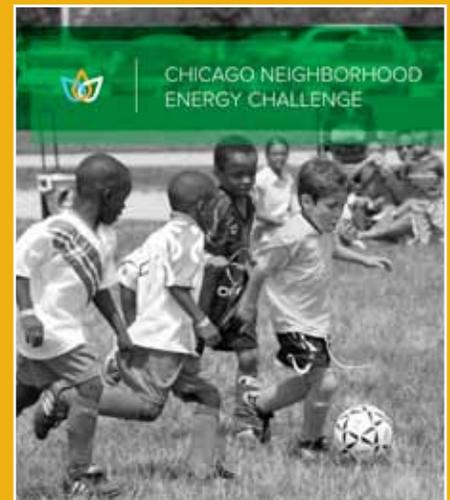
Residents are also taking action to increase energy efficiency with home retrofits and adoption of new technology. The City is working with community partners and ComEd to educate residents on smart meter installations and energy savings opportunities with Retrofit Chicago. The City has also formed new partnerships such as Solar Chicago to make clean energy more affordable.



SPOTLIGHT

SAVING

Chicago is driving innovation in residential energy efficiency with the Retrofit Chicago Residential Partnership, Chicago Neighborhood Energy Challenge, and Chicago Energy Data Map. The Residential Partnership has retrofitted over 13,000 housing units, saving residents \$5.9 million. Retrofit Chicago also incorporated a new Smart Grid Program as a platform for community engagement on smart meters and energy efficiency. The City facilitated the Chicago Neighborhood Energy Challenge with six multi-family buildings in Logan Square and Humboldt Park, who competed against each other in energy savings. Residents engaged in behavioral change activities to reduce energy use -- buildings averaged 20% reductions in electric, gas, and water use and saved \$54,000 on their energy bills. Additionally, the City and partners created the Chicago Energy Data Map to show energy use by neighborhood as a tool to drive savings.



37

Million square feet in Retrofit Chicago's Commercial Buildings Initiative

\$5.9m

In energy savings through Retrofit Chicago Residential Partnership

50%

Green power at Chicago Park District



GOAL PROGRESS

3 IMPROVE CITYWIDE ENERGY EFFICIENCY BY 5%

The Retrofit Chicago Commercial Buildings Initiative and the Chicago Energy Benchmarking ordinance are driving information and impact for large energy users. Commercial Buildings Initiative participants commit to increasing energy efficiency by 20%. To date, 48 buildings have signed on with a total of 37 million square feet with early participants already generating \$2.5 million in savings and a 7% reduction in energy usage overall. The Chicago Energy Benchmarking ordinance, had its first compliance date in June with buildings representing over 250 million square feet reporting under the new ordinance.

4 IMPROVE OVERALL ENERGY EFFICIENCY IN MUNICIPAL BUILDINGS BY 10%

Retrofits of municipal buildings are being completed through Retrofit One, a self-funding comprehensive energy efficiency program that will reduce utility and operating costs. The Chicago Infrastructure Trust, on behalf of the Department of Fleet and Facility Management, secured off-book, off-credit financing of \$12.8 million to retrofit 60 buildings, covering 4.9 million square feet. The impact upon completion of the buildings will include approximately \$1.4 million in savings and 18% energy reductions.

5 CREATE AN ADDITIONAL 20 MW OF RENEWABLE ENERGY, CONSISTENT WITH THE ILLINOIS RENEWABLE PORTFOLIO STANDARD

Last year, the City launched Chicago Solar Express to streamline solar permitting and reduce the costs of installations. This year, the City launched Solar Chicago, a community-wide residential group solar discount program offered to residents in partnership with World Wildlife Fund, Environmental Law and Policy Center, and Vote Solar. The Program far exceeded its original registration goal of 750 participants with a total of 2,131 residential sign-ups and 132 signed contracts for 651 kW of solar power planned for installation.

PARTNER SUCCESS

The Institute of Cultural Affairs (ICA) is delivering sustainability through its building and programs. ICA's programming includes Accelerate 77 which identified sustainability efforts in all 77 community areas and supports local leaders. The ICA's GreenRise building, a Chicago landmark, is part of Retrofit Chicago's Commercial Building Initiative, with a goal to reduce energy use by 20% within in 5 years. It also unveiled 485 solar panels on its roof in September 2014 which will offset 23% of its electricity use. The 8-floor, 166,000 square foot building is also home to a residential living community and 25 different non-profits and social service providers. The building is the largest non-profit and social services center in the Midwest.



2015 LOOK AHEAD

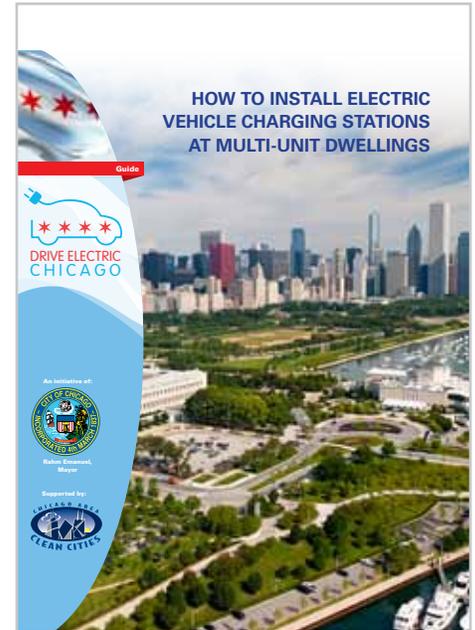
- » Retrofit One completion
- » Chicago Energy Benchmarking 2015 Report
- » Smart Grid Program and smart meter installations
- » Solar Chicago installations

3 | TRANSPORTATION OPTIONS

Building on a legacy of leadership in transportation, Chicago continues to create multiple opportunities for moving throughout the city, launching new systems like Divvy bikeshare, strengthening the CTA and designing streets to promote walking.

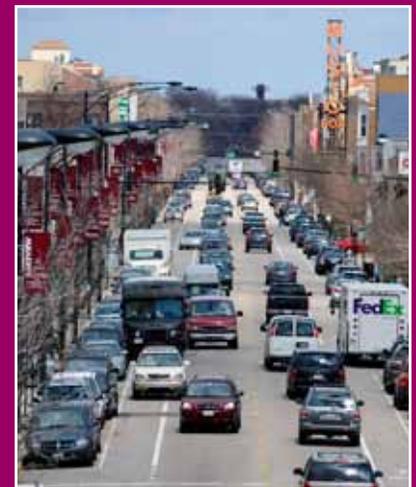
Divvy has been an overwhelming success since its launch, with residents and visitors taking over 2.7 million trips and traveling over 6 million miles. And there are many new ways to ride; the City is on pace to achieve the Mayor's goal of creating 100 miles of new buffered or protected bikeways by 2015. In May, Divvy entered into a \$12.5M five-year sponsorship with Blue Cross Blue Shield of Illinois to support expansion of the Divvy system, new bike lane infrastructure, bike and pedestrian safety education and outreach, and additional bike lane maintenance equipment.

The reconstruction of the Chicago/State CTA Red Line station and the Clark/Division Blue Line station was completed. The City announced a \$150 million investment in downtown transit to be constructed in 2015, including Central Loop Bus Rapid Transit, the Union Station Transit Center, a new Cermak/McCormick Place Green Line station, and a modern, fully accessible Loop Elevated station at Washington-Wabash to replace two century-old stations at Randolph and Madison.



CONNECTING SPOTLIGHT EXPANDED OPTIONS THROUGH INFRASTRUCTURE AND RIDESHARE

In addition to strengthening the CTA, expanding biking infrastructure and Divvy, Mayor Emanuel introduced and City Council passed the Transportation Network Provider or "rideshare" ordinance, establishing common sense safety regulations for the rideshare industry, protecting consumers while allowing innovative transportation business models to thrive. The ordinance provides consumer protections, improves passenger safety, meets customer demand while promoting innovation and recognizing the different services and providers throughout our entire public vehicle industry. Chicago is the first city to require surge pricing protections, as prices will be reported before rides are confirmed to ensure the consumer is protected, and the first to require commercial insurance coverage.



300

New clean diesel buses at CTA

65

Miles of bikeways installed since 2012

81%

Taxi fleet alternatively fueled

1

Electrical Vehicle refuse truck



GOAL PROGRESS

6 INCREASE AVERAGE DAILY TRANSIT RIDERSHIP

Strong rail ridership growth continues in 2014. Average daily rail ridership has increased in 2014 as CTA invests in system capacity and station improvements. This trend is expected to continue through 2015 as residential growth continues near the rail system. In 2015, Blue line station improvement work will continue as part of the “Your New Blue” project for brighter lights, cleaner, drier tunnels and improved entrances. CTA is on track to complete work on the California and Damen stations by year end 2014.



7 ACCELERATE TRANSIT-ORIENTED DEVELOPMENT AROUND TRANSIT STATIONS

In its first year, the Chicago Transit Oriented Development Ordinance combines best practices from cities across the country to reflect increasing preferences for walkable, dense development in transit-served locations. In the first full year since passage, Chicago Plan Commission approved 5 Transit Oriented Development projects, with several more in the planning and design phase. These initial 5 projects account for over \$130 million in investment, providing nearly 1,000 construction jobs and nearly 100 permanent jobs. Residents of these properties will bring a projected \$13 million in annual spending power to Chicago’s neighborhoods, while increasing the City’s tax base.

8 MAKE CHICAGO THE MOST BIKE AND PEDESTRIAN FRIENDLY CITY IN THE COUNTRY

In March, Mayor Emanuel broke ground on the Navy Pier Flyover project, an elevated path for safer walking and biking along the Lakefront Trail near Navy Pier, one of the most heavily used portions of the 18.5-mile trail. The dedicated bike and pedestrian path will extend from south of the Chicago River Bridge to Jane Addams Park to provide a safer and scenic alternative to several congested intersections along the Lakefront Trail. The flyover will also include stairs and ground-level entrance and exit points for easy access. The first construction phase is expected to be complete in December 2015.



9 IMPROVE FREIGHT MOVEMENT AND ACCELERATE HIGH-SPEED PASSENGER RAIL PROJECTS

Each day approximately 500 freight trains travel through the City of Chicago, some carrying hazardous material. In January, Mayor Emanuel called for action to increase freight rail safety, highlighting five common-sense measures that would make communities safer, including fees that would be dedicated to improving America’s aging rail infrastructure. Within one half mile of freight tracks there are more than 430 primary schools, more than 90 high schools, nearly 30 colleges and universities, and more than 300 parks.

GOAL PROGRESS

10 ADVANCE SUSTAINABILITY LEADERSHIP AT CHICAGO'S AIRPORTS

Unveiled in April 2014, the new world class International Terminal 5 at O'Hare Airport revolutionizes the traveler experience through a re-engineered and more efficient security checkpoint, cutting-edge design, and 24 new luxury retail and dining destinations, including 11 local brands. The redeveloped Terminal 5 reflects Chicago's distinct style and spirit in support of the Mayor's goal of reaching 55 million visitors annually by 2020. Concessions sales through May 2014 were up 45% compared to 2013 and sales per enplaned passenger were up 29% to \$22.65. In accordance with the Chicago Department of Aviation's Sustainable Airport Manual, Terminal 5 concessions were required to submit checklists addressing material selection, energy efficiency, water use, and other categories. The redevelopment created over 180 construction jobs and 184 new dining and retail jobs.



11 STRENGTHEN THE INFRASTRUCTURE TO ADVANCE VEHICLE EFFICIENCY

In July, The City and its partners launched Drive Electric Chicago, an initiative to encourage plug-in electric vehicle use with the release of a set of charging station installation guidelines for residents and owners of multi-unit dwellings and a series of ride and drive events for residents. The program also details the Department of Commerce and Economic Opportunity's Electric Vehicle Charging Infrastructure Rebate Program. This rebate, the best in the nation, covers 50% of equipment and installation costs up to certain caps, depending on the type of charging station.

12 REDUCE MUNICIPAL FOSSIL FUEL CONSUMPTION BY 10%

The City continued to invest in its fleet and improve efficiency. In September, the Department of Streets and Sanitation unveiled its new electric vehicle refuse truck, the first in North America, a vehicle that saves more than 2,500 gallons of gasoline a year, has a payload capacity of 9 tons, 200 kilowatt-hours of battery capacity, and provides quieter garbage collection service with zero tailpipe emissions. CTA's midday bus storage program has reduced fuel consumption by reducing bus mileage. Buses are stored downtown after AM rush rather than "deadheading" of-service back to peripheral garages. In the first year of service, the program saved 25,000 gallons of fuel with 18 buses. In 2015, the program will save 50,000 gallons of fuel and reduce 175,000 "deadhead" miles with 31 buses. Since implementation, the program resulted in the reduction of 557 metric tons of CO2-equivalent emissions.

PARTNER SUCCESS

With an ordinance passed in 2012, Mayor Emanuel and City Council established new leasing rules which encouraged the local taxi industry to drive gas electric hybrids or alternative fuel vehicles. Chicago's taxi industry embraced the change, remaking the local fleet, increasing fuel efficiency, reducing its carbon footprint, and improving its overall sustainability. Since passage, the City has seen a 600 percent increase in green vehicles in the fleet. As of September 30, 2014, there are approximately 4,600 green taxis in Chicago, or 81% of the total fleet. Additionally, in August, Chicago's Department of Business Affairs and Consumer Protection released new open data on public vehicle licenses, and approved electric vehicles for livery service.



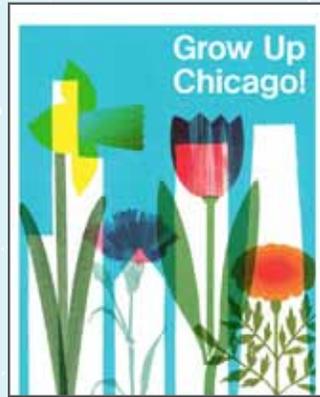
2015 LOOK AHEAD

- » Chicago Union Station Master Plan strategy
- » Central Loop Bus Rapid Transit starts construction in 2015
- » East Roosevelt Road complete street opens
- » Argyle shared street starts construction
- » Rebuilding of 11 viaducts as part of CREATE
- » 1,750 more Divvy bikes
- » 175 more Divvy stations

In celebration of Earth Day 2014, the City of Chicago hosted a competition among local designers to create powerful, inspiring, action-oriented poster, that depict what it means for Chicago to be a sustainable city. The competition highlighted Chicago's wealth of creative talent and a judging panel of renowned professionals, culminating in public display and recognition of 12 finalist designs. This artwork - which has been showcased at information kiosks and bus shelters throughout the city - explores the Chicago's motto 'urbs in horto' (Latin for 'city in a garden') and issues a call-to-action for residents to take ownership of our environment and climate.



"TREE OF LIFE"
ELIZABETH SJ-GRONDAHL



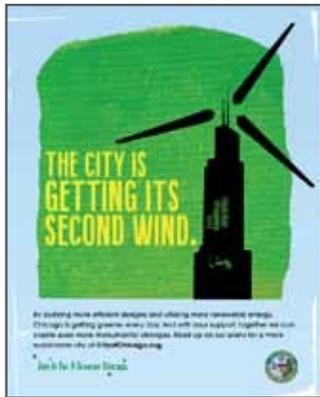
"GROW UP CHICAGO!"
SHAN JAMES & JAMES GOGGIN



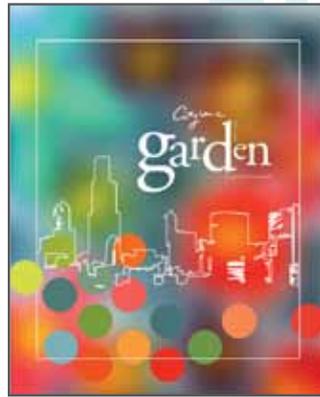
"DEFINE YOUR CITY"
ALEX GILBERT



"BIKING IS SWEET"
SILAS REEVES



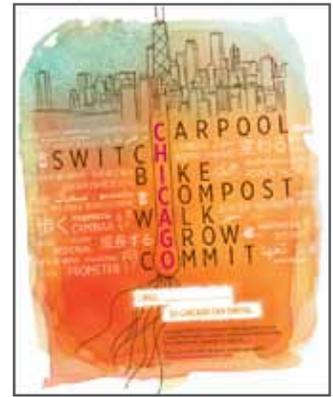
"TURBINE TOWER"
DERRICK WEBB



"VIBRANCY"
SUSAN FIRESIDE



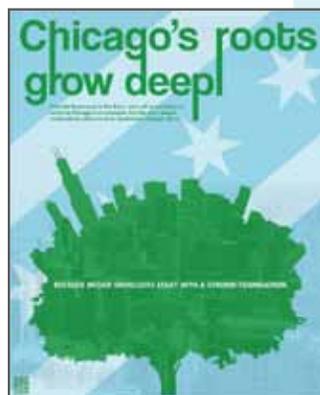
"SUSTAIN ABLE CHICAGO"
JOSEPH MICHAEL ESSEX



"ONE AND ALL"
ALBENA IVANOVA & STEVE BATTERSON



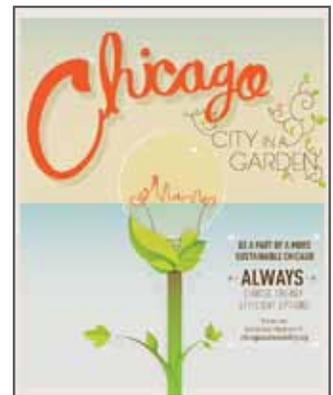
"CITY IN A GARDEN"
WONJAE LEE & YOONSHIN KIM



"CHICAGO ROOTS"
COOPER FOSZCZ



"KEEP IT CLEAN"
LISA ITZKOWITZ



"SUSTAINABLE HORIZONS"
JOSHUA RAINS & ASHLEY BATTON

4 | WATER AND WASTEWATER

Communities around the world and across the country face increasing challenges in maintaining and securing water resources. Chicago is fortunate to have the resources of Lake Michigan and our rivers and works to protect and enhance them.

Chicago has moved from envisioning the Chicago River as our second waterfront to implementing this plan by building new public open space, adding boathouses, and improving water quality through investments in green stormwater infrastructure. The City is also renewing our critical infrastructure network of water mains, sewer pipes, pumping stations, and purification plants, and is on track both to replace 75 miles of water mains by the end of 2014, and achieve a larger goal to replace 900 miles of water mains over ten years.

In July, Mayor Emanuel announced that the 50,000th water meter was installed since the start of the MeterSave program. Over 15,000 water meters have been installed already this year, exceeding the department's installation goal of 15,000 meters all of 2014.



SPOTLIGHT REINVENTIONS

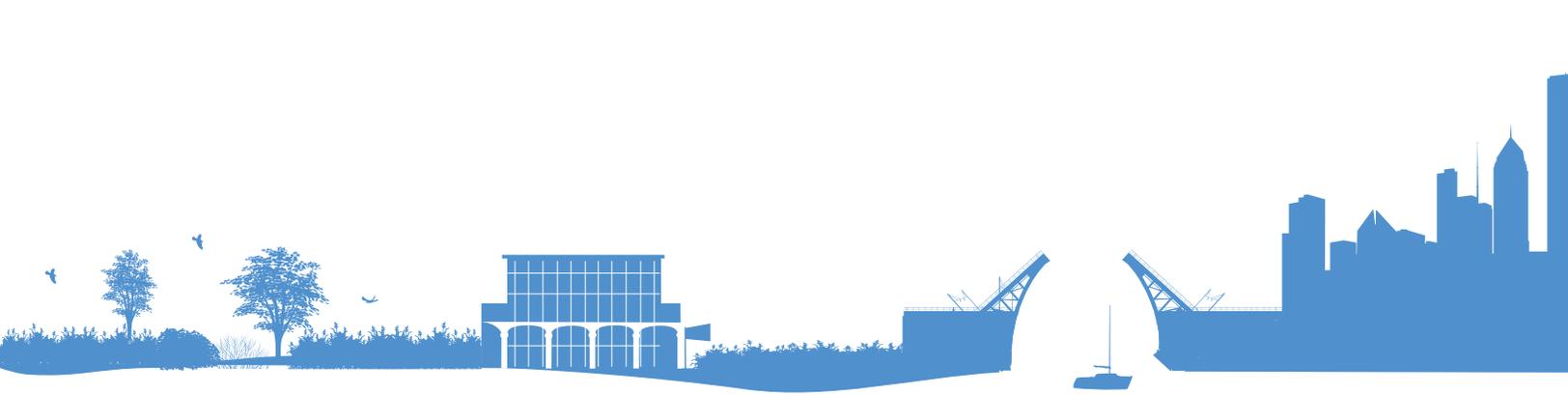
In March, Mayor Emanuel announced the first series of investments under the new Green Stormwater Infrastructure Strategy, a voluntary commitment to invest \$50 million over five years to keep runoff out of our overburdened sewer system. Working with Chicago Public Schools, the Metropolitan Water Reclamation District and the Space to Grow program, an initiative of Openlands and Healthy Schools Campaign, the City is converting public school asphalt schoolyards into green playgrounds. In 2014, Space to Grow transformed four Chicago schoolyards into green spaces that address stormwater management and basement flooding needs while providing students, their families and the broader community with opportunities for active play, space for physical education, outdoor learning, gardening, environmental education and art. Schoolyard elements include turf fields, play structures, outdoor classrooms, vegetable and native gardens, art and more. Each schoolyard includes green stormwater infrastructure features, including permeable surfaces, rain gardens, and above- and below-ground water storage.



218 Miles of water mains replaced

3 Boathouses delivered

30,000 Catfish introduced into the Chicago and Calumet Rivers



GOAL PROGRESS

13 DECREASE WATER USE BY 2% (14 MILLION GALLONS PER DAY) ANNUALLY

Pumped from Lake Michigan by the City, water use in Chicago from October 1, 2013 to September 30, 2014 averaged 477 million gallons per day, down 0.4% from the previous twelve-month period. Despite significant investments in conservation, usage only decreased slightly due to the historically cold winter, which caused water consumption to increase due to higher use of steam heating and customers who let water run to prevent frozen pipes. Water use over the past two years is down 4.7% compared to the 12-month period before the 2012 release of *Sustainable Chicago 2015*.

14 ENHANCE STORMWATER MANAGEMENT TO REDUCE SEWER OVERFLOWS AND BASEMENT FLOODING

As part of Mayor Emanuel’s Green Stormwater Infrastructure Strategy, the Department of Water Management (DWM) has worked with City agencies to identify opportunities to incorporate green infrastructure into existing and ongoing capital projects. In 2014, DWM launched 40 such projects, which included four schoolyard projects, five complete streets projects, one porous asphalt street, and 30 traffic calming projects. In sum, these 40 projects received \$6.2 million in funding from DWM and will leverage nearly \$19 million in additional funding from other public agency and private partners. In addition, DWM is on track to build 17 miles of new sewers and reline 49 miles of existing sewer pipes.

15 TRANSFORM THE CHICAGO RIVER INTO OUR SECOND WATERFRONT

The City made strides in an ambitious plan to activate the Chicago River. Progress continued on Phase 2 of the Chicago Riverwalk construction, creating a continuous pedestrian path along the south bank of the Main Branch of the Chicago River from State Street to LaSalle Street. The Riverwalk plan links a series of distinct civic spaces or “rooms”, each named for its unique program. Phase 2 will deliver two of these rooms, “Marina Plaza” and the “Cove”, in late 2015.

16 PROTECT WATER QUALITY AND ENHANCE ACCESS TO LAKE MICHIGAN

As part of the Chicago Neighborhoods Now and Building a New Chicago programs, the City secured funding for 3 lakefront pedestrian bridge projects on Chicago’s South Side. Located at 35th, 41st, and 43rd Streets, these projects will create hundreds of jobs, while providing safer and better access to the Lakefront for Bronzeville residents. Representing a total investment of over \$65 million, the bridges will expand access to Chicago’s lakefront, increasing accessibility for pedestrians and bikers. To protect water quality, Mayor Emanuel convened mayors from Great Lakes cities to a summit on drinking water protection to call for action to protect the Great Lakes from threats from harmful algae blooms and microcystin outbreaks.

PARTNER SUCCESS



In June, Friends of the Chicago River and the Illinois Department of Natural Resources released 30,000 one-year old channel catfish into the Chicago River system as the first step in a spawning habitat restoration. The project builds on the improving health of the river and was funded by a \$300,000 grant from the Chi-Cal Rivers Fund.

2015 LOOK AHEAD

- » 28th and Eleanor boathouse opens
- » State of Illinois microbead ban
- » River Theatre slated for completion in 2015
- » 90 miles of water mains replaced
- » 72 miles of sewer mains replaced or relined

5 | PARKS, OPEN SPACE, AND HEALTHY FOOD



The City in a Garden is investing in exciting recreational opportunities across Chicago while strengthening biodiversity, natural resources and food access.

The City has undertaken multiple 'once-in-a-generation' projects to develop new parks and green space features that directly enhance the city's natural habitats, quality of life, and visitor appeal, such as Northerly Island Park, Maggie Daley Park, 31st Street Beach Park, Calumet River, as well as transformational infrastructure to connect residents with those destinations. In addition playgrounds across the city are being built and refurbished.

The City continues to nurture food access through local production, urban agriculture, community gardens, and grocery stores that are expanding markets for fresh produce and other food options.

The Department of Family and Support Services, in partnership with the innovative non-profit Experimental Station, expanded the Double Value Coupon Program to 28 farmers markets throughout Chicago. The program matches LINK-eligible purchases made at participating markets with dollar-for-dollar coupons, increasing the spending capacity of low-income families and individuals, encouraging healthy eating, and boosting the incomes of local farmers.



RECREATING SPOTLIGHT

CHICAGO PLAYS!

In September, the Chicago Park District was on track to refurbish over 100 playgrounds by year end, as part of the Chicago Plays! initiative. The work is part of a comprehensive plan to build and improve parks throughout the city, rebuilding Chicago so that every child in every neighborhood is within a 10 minute walk of a park or playground. The Chicago Plays! playground renovation program was launched in Spring 2013 by Mayor Emanuel, who announced that Chicago Park District would rebuild, repair and/or refurbish 325 playgrounds in communities across Chicago.



5,400

Trees planted in 2014

\$5.7m

In locally sourced food served in CPS schools

1,000

Cultural events and activities in parks through on Night out in the Parks



GOAL PROGRESS

17 INCREASE THE NUMBER OF PUBLIC SPACES AND PARKS ACCESSIBLE FOR CHICAGOANS

Chicago is building on its legacy of beautiful open spaces in developing innovative new open spaces. Progress continues on the Bloomingdale Trail project known as the 606, repurposing an abandoned railway into a 2.7 mile linear park. In April, the bridge that previously spanned Ashland Avenue was relocated to Western Avenue, and reused in the most sustainable and cost-effective way possible. Early on a Saturday morning, the bridge was moved on special equipment that can lift, rotate, and transport the entire structure. This was an important milestone for this transformative public space infrastructure project.

18 INCREASE OPTIONS FOR ACCESSING LOCAL OR HEALTHY FOOD IN EVERY NEIGHBORHOOD

In March, Mayor Emanuel announced the launch of the Large Lot Pilot Program, a new Department of Planning & Development land sale program to enable homeowners, block-clubs and non-profit groups to purchase City-owned land for \$1 per parcel. The City is selling 327 vacant residential lots in the community areas of Englewood, West Englewood, Woodlawn, Washington Park and parts of Greater Grand Crossing, Fuller Park and New City to 230 applicants, with many of these parcels slated for community gardens and local food production. Additionally, Neighborspace has partnered with the City in developing new community gardens at 9 sites.

19 IMPROVE AND PROTECT CHICAGO'S NATURAL ASSETS AND BIODIVERSITY

Part of the Calumet Reserve, Big Marsh is the vision for Park No. 564, about 20 minutes southeast of the Loop. It is 278 acres of open space, just a few acres smaller than Chicago's Grant Park. With a unique ecological heritage and industrial past, Big Marsh will create a new legacy of outdoor recreation and open space stewardship. Phase 1 for the park is Big Marsh Bike Park, a local and regional attraction, featuring family-friendly bike trails, world-class venues for mountain biking, and trail riding.



PARTNER SUCCESS

The United States Army Corps of Engineers is leading the 40-acre habitat restoration of Northerly Island. By Fall 2014, visitors will be able to use a pathway that will traverse a wetland area. In April, the Corps broke ground on a massive ecological restoration project at Horner Park on the North Branch of the Chicago River, adding 12 acres of shoreline, regrading the riverbank, and adding boat launches. In August, an \$8.1 million restoration of Jackson Park was announced.



2015 LOOK AHEAD

- » Logan Square Urban Orchard completion
- » Maggie Daley Park opening in 2015
- » Museum Campus Framework Plan
- » Theater on the Lake
- » La Villita opens in Little Village

6 | WASTE AND RECYCLING

In the 12 months ending September 30th, the City collected 950,224 tons of waste from as part of its low density residential program and 104,985 tons of recycling, an increase of 54% over last year.

In recognition of the full citywide Bluecart rollout in 2013, Chicago's Department of Streets and Sanitation won the Illinois Recycling Association Outstanding Government Recycling Program Award. Chicago Public Schools is also innovating and improving waste operations, saving 33% annually, or \$1.8 million, on waste disposal after contract negotiation in 2013. CPS is partnering with the City to raise recycling awareness citywide through direct school outreach.

In July 2014, the City announced an innovative new partnership with the Metropolitan Water Reclamation District (MWRD), agreeing to provide 3,000 truckloads of wood chips created from Chicago tree debris to MWRD. The wood chips will be mixed with MWRD biosolids for wastewater treatment and then composted into an organic material for use as a substitute for fertilizer and compost. This material will be used for maintaining or establishing turf grass in parks, athletic fields and public access areas at Chicago Park District facilities.



SPOTLIGHT RECYCLING

Chicago achieved a milestone accomplishment by rolling out bluecart recycling citywide in 2013. To help drive awareness and participation in residential recycling, the Department of Streets and Sanitation launched a series of messaging campaigns and contests for Chicago residents. The #ChicagoRecycles social media outreach campaign spread general awareness on how and why Chicagoans should do their part. Partnerships with the Carton Council, Coca Cola, Mariano's, and Jewel on contests and giveaways to promote recycling.



1 Bridge moved and reused as part of the 606

99% of CPS schools actively recycling

104,985 Tons of recycling, saving an additional \$3.5 million through waste diversion and lower landfill fees.



GOAL PROGRESS

20 INCREASE ACCESS TO RECYCLING AND IMPROVE POLICIES TO PROMOTE WASTE REDUCTION AND RE-USE

In addition to city wide recycling, in March 2013, the Chicago Department of Aviation adopted a Green Concessions Policy – among the first of its kind in the airport industry. Implementation of the Policy will increase composting and recycling, providing healthier foods, reducing emissions and the volume of waste hauled off-airport to landfills and associated costs. Roughly 50% of materials disposed of as solid waste will transition to compostable or recyclable products under the Policy. In total, CDA expects to divert 8,000 tons of solid waste from landfills per year. The Policy applies to all 129 existing concessionaires operating at O’Hare and 47 operating at Midway, as well as all future concessions.



21 INCORPORATE STANDARD GREEN PRACTICES IN ALL CITY OPERATIONS

A new online permit and business license portal launched, that will reduce paper use by 28,500 sheets annually. As part of an effort to make doing business with the City easier and more sustainable, the Department of Procurement Services launched an eProcurement and Modernization initiative. By moving processes online, the City will reduce wait times, make faster payments to vendors, increase visibility and transparency of bid specifications, and mitigate paper-intensive processes. New internal procedures for preparing contract packages will reduce paper cost and consumption by over 60%.

PARTNER SUCCESS

Keep America Beautiful is one the nation’s leading nonprofits focused on building and sustaining vibrant communities, and has been a leading contributor to Chicago efforts to increase recycling. In addition to supporting the current #ChicagoRecycles and Recycle and Win campaigns, last year, together with Coca-Cola, Keep America Beautiful contributed a \$2.6 million grant to support the citywide expansion of the Blue Cart Recycling Program.



2015 LOOK AHEAD

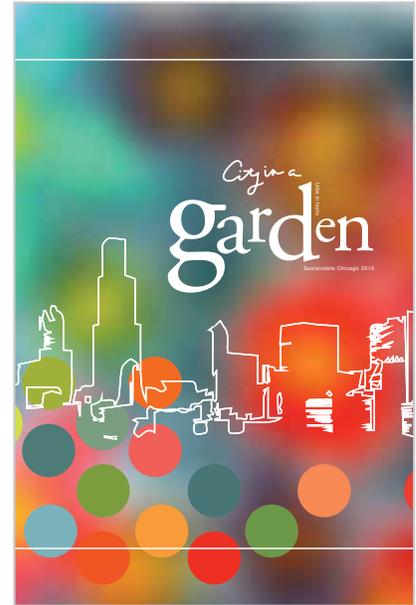
- » The City will pilot food scrap collection in a residential neighborhood
- » First full year of reporting for citywide Blue Cart program partnership with Keep America Beautiful, Carton Council, and others to increase awareness of recycling
- » Carton Council will perform a waste audit to determine percentages of commodities in our recycling stream

7 | CLIMATE CHANGE

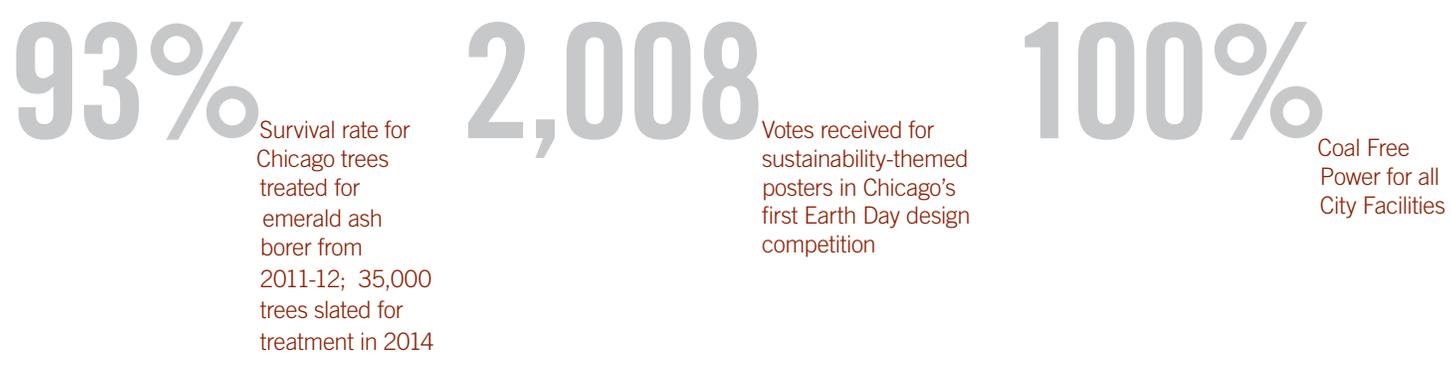
In the face of changing weather patterns, extreme temperatures, and increased frequency of storms and related disruptions, leading global cities like Chicago are taking action to address immediate and long-term environmental threats

Whether these climate challenges relate to air quality, city operations, or Chicago's carbon footprint, the city is committed to a climate approach that increases sustainable investment, manages risk, and allows communities and businesses to thrive. In March, for example, the City announced its second bulk energy purchasing program, which is expected to save as much as \$24 million for Chicago residents and small businesses while ensuring coal-free power.

Even as Chicago continues working to reduce future greenhouse gas emissions from energy, transportation, solid waste, and other sources, we must also enhance resilience responding to the changes already in-progress. As the World Wildlife Fund's US Earth Hour Capital for 2014, Chicago is investing in strong physical and social infrastructure that will help protect residents' families and livelihoods.



TRANSFORMING SPOTLIGHT
Mayor Emanuel and the Chicago Department of Fleet and Facilities Management secured a contract to deliver coal free electricity to power Chicago municipal facilities and street lights. Removing the equivalent of 221,000 cars from the road, the contract was secured at a 2 percent discount from the City's last electricity contract, amounting to a reduction in City electricity costs of \$1.2 million over two years. This agreement builds upon the success of Chicago's municipal electricity program, which has saved more than 720,000 Chicago households and businesses a total of over \$36 million to date since launching February 2013, supplied via a coal-free power mix, five percent of which is generated by local wind farms in Illinois.





GOAL PROGRESS

22 REDUCE CARBON EMISSIONS FROM ALL SECTORS

Greenhouse gas emissions - including carbon dioxide, methane, ozone, and other gases that absorb infrared radiation in the atmosphere - result primarily from burning fossil fuels and releasing other chemicals into the air. In light of its many sources, greenhouse gas emission reduction requires a city-wide, portfolio approach. Sector-specific reductions in 2014 (many of which are highlighted elsewhere in this update) stem from renewable energy programs like Solar Chicago, multi-sector efficiency efforts like Retrofit Chicago, expansion of public transit, and electric vehicle education and adoption.

23 IMPROVE LOCAL AIR QUALITY BY ACCELERATING PERFORMANCE TOWARD FEDERAL STANDARDS AND DECREASING GREENHOUSE GAS EMISSIONS

Over the last year, the City of Chicago has taken steps to protect residents from petroleum coke ('petcoke') dust, a byproduct of oil refining and a fuel source for power generation. When petcoke dust becomes airborne, it can compromise air quality and create public concern. After an extensive investigation and public comment period, Mayor Emanuel and the Chicago Department of Public Health issued tough regulations on March 13, 2014 that control the storage and handling of bulk materials such as petcoke, including fully-enclosed storage and transport of materials as well as detailed monitoring and transparency.

24 PROTECT THE CITY AND ITS RESIDENTS BY PREPARING FOR CHANGES IN THE CLIMATE

In 2014, the Chicago Transit Authority completed a comprehensive assessment of potential risks and other impacts that climate change may have on the city's rail and bus transit systems. The study identifies specific weather-related risks, including possible flooding, signal house overheating, and rail kinks that have the potential to create public transit service disruption. The CTA will work to maintain and improve service levels through targeted investment. The Kimball, Princeton and State Loop substation renewals will replace aging equipment and strengthen light rail infrastructure resiliency.



RECOGNITION

In celebration of Earth Day 2014, the City of Chicago hosted a competition among local designers to create powerful, inspiring, action-oriented posters, that depict what it means for Chicago to be a sustainable city. The competition highlighted Chicago's wealth of creative talent and a judging panel of renowned professionals, culminating in public display and recognition of 2 finalist designs. This artwork - which has been showcased at information kiosks and bus shelters throughout the city - explores the Chicago's motto 'urbs in horto' (Latin for 'city in a garden') and issues a call-to-action for residents to take personal ownership of our environment and climate. See all finalists on page 13.



2015 LOOK AHEAD

- » Array of Things environmental sensor project roll out
- » Community redevelopment planning for former Fisk and Crawford coal power plant sites in Pilsen and Little Village
- » Resiliency planning as part of Rockefeller Foundations 100 Resilient Cities Program
- » Petcoke facility road paving and enclosure requirements to protect air quality



CONCLUSION

Through two years of implementation of Chicago's roadmap for a more livable, competitive, and sustainable city, residents, partners, and government have made progress across all seven categories of the plan.

Last year, the City identified 16 goals where residents could actively engage in leading Chicago sustainability. As exemplified by the success of Retrofit Chicago, ridership on Divvy, participation in MeterSave, and more, Chicago's residents and business community are taking the lead. Looking forward, there is a role for everyone in making Chicago sustainable. We welcome your feedback: sustainability@cityofchicago.org

1 ECONOMIC DEVELOPMENT AND JOB CREATION

- 01 Establish Chicago as a hub for the growing sustainable economy
- 02 Accelerate the economy in Chicago by assisting people and companies in adopting sustainable practices



2 ENERGY EFFICIENCY AND CLEAN ENERGY

- 03 Improve citywide energy efficiency by 5%
- 04 Improve overall energy efficiency in municipal buildings by 10%
- 05 Create an additional 20 MW of renewable energy, consistent with the Illinois Renewable Portfolio Standard



3 TRANSPORTATION OPTIONS

- 06 Increase average daily transit ridership
- 07 Accelerate transit-oriented development around transit stations
- 08 Make Chicago the most bike and pedestrian friendly city in the country
- 09 Improve freight movement and accelerate high-speed passenger rail projects
- 10 Advance sustainability leadership at Chicago's airports
- 11 Strengthen the infrastructure to advance vehicle efficiency
- 12 Reduce municipal fossil fuel consumption by 10%



4 WATER AND WASTEWATER

- 13 Decrease water use by 2% (14 million gallons per day) annually
- 14 Enhance stormwater management to reduce sewer overflows and basement flooding
- 15 Transform the Chicago River into our second waterfront
- 16 Protect water quality and enhance access to Lake Michigan



5 PARKS, OPEN SPACE AND HEALTHY FOOD

- 17 Increase the number of public spaces and parks accessible for Chicagoans
- 18 Increase options for accessing local or healthy food in every neighborhood
- 19 Improve and protect Chicago's natural assets and biodiversity



6 WASTE AND RECYCLING

- 20 Increase access to recycling and improve policies to promote waste reduction and re-use
- 21 Incorporate standard green practices in all City operations



7 CLIMATE CHANGE

- 22 Reduce carbon emissions from all sectors
- 23 Improve local air quality by accelerating performance toward federal standards and decreasing greenhouse gas emissions
- 24 Protect the city and its residents by preparing for changes in the climate



ACTIONS

ECONOMIC DEVELOPMENT AND JOB CREATION

1.1	Increase investment and research through activities including a Chicago clean tech summit and sharing of sustainability-related data	
1.2	Implement new technologies to advance sustainable solutions by using smart grid and clean energy applications	
1.3	Recruit the companies and individuals with the most innovative clean energy and sustainability solutions to Chicago; start by convening or hosting a major clean energy and sustainability conference in Chicago every year	
1.4	Increase demand for sustainable products and approaches by adopting a green procurement policy	
2.1	Double the number of offices and businesses making operations more sustainable through efforts like the Green Office Challenge and Chicago Sustainable Industries	
2.2	Support sustainability and green building education for the public through programming at the Chicago Center for Green Technology and other partnerships	
2.3	Determine training gaps based on planned investments, and expand educational and training opportunities in environmental programs at City Colleges, Chicago Public Schools, and Greencorps Chicago along with departments' and sister agencies' work with the community	
2.4	Identify, prioritize, and eliminate code barriers to sustainable practices	

ENERGY EFFICIENCY AND CLEAN ENERGY

3.1	Support homes and businesses to achieve 20% energy efficiency improvement through Retrofit Chicago, including residential energy efficiency zones and the Commercial Buildings Initiative	
3.2	Support and advance the installation of smart meters in Chicago's businesses and households	
3.3	Double the number of LEED-certified buildings	
3.4	Include energy efficient technologies in all street lighting replacements	
3.5	Enhance local policies to support greater transparency in energy use and building energy performance	
3.6	Update the energy code for new construction and significant renovations	
4.1	Target 10 million square feet of municipal buildings for energy reduction of 20%	
4.2	Achieve at least 10% improvement in energy efficiency in all CPS school operations, targeting a 50% school participation rate through a shared energy savings program	
4.3	Double the number of LEED-certified public buildings	
4.4	Track and report energy consumption at City facilities	
5.1	Install 10 MW of renewable energy on City properties	
5.2	Explore locally-produced, renewable energy opportunities as a part of new approaches to procuring power	
5.3	Cut the solar permit approval time in half, and reduce the complexity for zoning for local solar installations	
5.4	Work with ComEd, the State of Illinois, and other partners to assist in achieving the Illinois Renewable Portfolio Standard goals of 9% of electricity coming from renewable energy by 2015 and 25% by 2026	

TRANSPORTATION OPTIONS

6.1	Complete full reconstruction of Dan Ryan (southern) branch of the Red Line, complete facelifts for seven stations on the north Red Line. Take the first step toward full Red and Purple Line modernization with a complete reconstruction of Wilson (Red) structure	
6.2	Complete renewal of 100 train stations with work focusing on lighting, painting, masonry and waterproofing, ensuring they are "safe, dry, and bright"	
6.3	Replace or rebuild more than 1,500 CTA buses with new, low-emission buses and replace or rebuild nearly 1,000 CTA rail cars	
6.4	Install Bus Tracker LED signs at a total of 400 bus shelters and bus turnarounds. Install Train Tracker signage, announcement systems, and other technological amenities in all rail stations	
6.5	Launch Bus Rapid Transit (BRT) with a pilot route on Jeffrey Corridor and a full route downtown. Plan for additional corridors	
6.6	Implement a travel demand management program to connect people with commuting options	
7.1	Amend the Chicago Zoning Ordinance by adding a definition for Transit Oriented Development to enable and encourage more developments near transit stations and to ensure that bulk, density, and parking ratios of the Code meets the needs of those developments	
7.2	Identify additional "pedestrian streets" (as defined in the zoning code) around CTA stations	
7.3	Coordinate transit improvements with streetscape improvements and complete street implementation	
8.1	Add 100 miles of protected bike facilities	

TRANSPORTATION OPTIONS (cont'd)

8.2	Launch a bike sharing system with 4,000 bicycles and 400 stations	
8.3	Release a pedestrian master plan to improve health and safety	
8.4	Enhance, adopt and use the revised Complete Streets Guidelines to ensure enjoyable, safe, attractive, pedestrian-friendly streets. Complete Irving Park Road and Lawrence Avenue pilots	
8.5	Reduce bicycle and pedestrian fatalities by focusing improvements on the top crash locations	
9.1	Coordinate efforts with Metra as the Englewood Flyover project begins construction for completion in 2014	
9.2	Identify additional available funding sources and work with CREATE partners to apply for grants, as appropriate	
9.3	Modernize Union Station to expand its role as a transportation hub	
10.1	Pursue significant infrastructure investments to reduce airport emissions, enhance multi-modal connections, generate regional revenue, and improve travel experience for millions of Chicago visitors	
10.2	Advance strategies to reduce airport energy consumption by 15%, divert 50% of airport waste, and maintain a fleet with 20% low-emission vehicles and develop innovative approaches to airport operations such as a large-scale solar development, alternative fueling infrastructure, a green concessions program, and sustainable land management practices	
10.3	Lead in exploring innovative technologies, practices, and partnership opportunities, including biofuels development through the Midwest Aviation Sustainable Biofuels Initiative	
11.1	Improve traffic signal timing for cars and buses to reduce idling time	
11.2	Achieve a taxi fleet comprised of 75%-80% hybrid or compressed natural gas vehicles	
11.3	Install a dense network of electric vehicle charging stations	
11.4	Encourage the use of clean fuels, clean vehicle technologies and develop alternative fuel infrastructure in partnership with the Chicago Area Clean Cities Coalition	
12.1	Reduce number of vehicles in the City's fleet	
12.2	Increase efficiency of garbage services with street grid-based pick-up routing	
12.3	Replace 3%-5% of on-road fleet vehicles with green fleet annually	
12.4	Reduce energy intensity of CTA rail service by 12% from 2011 levels	

WATER AND WASTEWATER

13.1	Meter 50% of all water accounts	
13.2	Replace 320 miles of water main by 2015 to achieve replacement of 900 miles within the next decade	
13.3	Collaborate on grey water policy, including codes, to allow for expanded uses	
13.4	Pilot water reduction programs and technologies at City-owned facilities	
13.5	Track and report water use in city facilities	
13.6	Launch a water conservation strategic plan that lays out Chicago's plans to meet water conservation goals	
14.1	Create a comprehensive green infrastructure plan that is embedded in the capital budgeting process	
14.2	Explore partnerships with the Metropolitan Water Reclamation District to implement neighborhood-level green infrastructure pilots focused on reducing basement flooding	
14.3	Convert 1.5 million square feet of impermeable surface into pervious surfaces every year	
14.4	Replace or reline 275 miles of sewer main and line 56,000 structures (to achieve a total replacement or relining of 700 miles of sewer main, and total relining of 160,000 catch basins within the next decade)	
14.5	Support the completion of the first stage of the Tunnel and Reservoir Plan	
14.6	Increase opportunities to return rainwater to Lake Michigan	
15.1	Add to riverfront trail where gaps exist and continue to identify additional opportunities to create connections	
15.2	Create new recreational opportunities along the river, including the construction of four new boathouses	
15.3	Support disinfection of sewage discharged into the Chicago River	
15.4	Collaborate with key stakeholders to advance Chicago River revitalization efforts	

WATER AND WASTEWATER (cont'd)

16.1	Create better lakefront access with infrastructure improvements such as the Navy Pier bicycle and pedestrian flyover	
16.2	Decrease bacteria sources into the Lake to reduce the swim advisory days	
16.3	Use the latest technology to provide faster, more accurate information about beach water quality to the public, including real-time weather and water data	
16.4	Reduce salt usage in all snow removal programs	

PARKS, OPEN SPACE AND HEALTHY FOOD

17.1	Invest in innovative new public spaces, including the Make Way For People initiative, to create open, active streets	
17.2	Increase number and varieties of programs for residents through the Chicago Park District, community groups and other partnerships	
17.3	Increase Chicago Park District acreage by more than 180 acres	
17.4	Open Bloomingdale Trail, open North Grant Park (a 16-acre innovative and environmentally sustainable park) and open new LEED-certified field houses in at least two parks	
17.5	Support the access to, integration and promotion of cultural elements in public spaces	
18.1	Double the number of acres of urban agriculture	
18.2	Provide LINK card assistance at all farmers markets	
18.3	Create partnership opportunities for regional businesses and farms that deliver healthy food into the city	
18.4	Encourage more individual production of healthy food on public and private spaces	
19.1	Drive habitat restoration and public engagement in Calumet region	
19.2	Increase and protect habitat that is friendly to birds and other species. Restore at least 40 acres of land on Northerly Island in support of this effort	
19.3	Protect the tree canopy in the public right-of-way; support tree canopy work on other land	
19.4	Continue to enforce terrestrial and aquatic invasive species ordinance and work with state and federal partners on regional coordination on prevention	

WASTE AND RECYCLING

20.1	Expand the Blue Cart Recycling Program to all 600,000 City-collected households	
20.2	Improve policies to promote recycling, composting, and building material re-use	
20.3	Pilot and scale best practices for waste reduction at a major festival	
20.4	Divert 75% of eligible municipal construction waste	
20.5	Meet or exceed recycling goals at 75% of public schools	
21.1	Use recycled content materials in every construction project	
21.2	Make as many city processes as paperless as possible	
21.3	Implement a sustainable operations plan for city facilities	

CLIMATE CHANGE

22.1	Report updates on carbon emissions	
22.2	Partner with universities to use Chicago as a laboratory for climate research and data gathering	
22.3	Increase community engagement to make Chicago more sustainable	
23.1	Close Fisk and Crawford generating stations earlier than planned, benefiting the city with reduced air pollution	
23.2	Reduce Chicago Transit Authority bus particulate matter emissions by 50 percent and nitrous oxide emissions by 30 percent while maintaining bus service levels	
23.3	Implement the Chicago Clean Diesel Construction Ordinance's Clean Fleet Score and ban high polluting equipment and vehicles on City projects starting in 2014	
24.1	Prepare for the human impacts of climate change by supporting people with information and services, such as cooling centers	
24.2	Prepare the natural environment for climate impacts and maintain biodiversity	
24.3	Prepare the infrastructure for climate change by reducing the urban heat island effect, managing flooding from high-intensity storm events, and strengthening resiliency to extreme weather	

GRI INDEX

The GRI sustainability framework reflects Chicago's cross-sector approach to environmental governance, which includes shared responsibility and accountability for common goals. The City prepared this Sustainable Chicago 2015 Year Two Progress Report in accordance with Global Reporting Initiative (GRI) Sustainability Reporting Guidelines G3.1 and self declares its first GRI report to be "Level C". The reporting period for this Progress Report is from October 1, 2013 to September 30, 2014.

The scope of the report was determined in light of the areas that the City of Chicago can directly impact or influence. Most notably, this includes the services that it provides for residents and visitors, as well as its own municipal operations. The City applied GRI's "Guidance on Defining Report Content" by ensuring that it prioritized areas of biggest risks and opportunities.

GRI INDICATOR	DESCRIPTION	PAGE
PROFILE		
1.1	Strategy and Analysis	1
2.1-2.10	Organizational Profile	3-5, 21
3.1-3.8, 3.10-3.12	Report Parameters	3-4, 25
4.1-4.4, 4.14, 4.15	Governance, Commitments and Engagement	2-4, 26
ECONOMIC PERFORMANCE		
EC2	Financial implications and other risks and opportunities for the organization's activities due to climate change.	20
EC8	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind, or pro bono engagement.	5, 9-11, 13-14
ENVIRONMENTAL PERFORMANCE		
EN6	Initiatives to provide energy-efficient or renewable energy based products and services, and reductions in energy requirements as a result of these initiatives.	7-8
EN8	Total water withdrawal by source.	14
EN11	Location and size of land owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas.	16
EN16	Total direct and indirect greenhouse gas emissions by weight.	20
EN20	NOx, SOx, and other significant air emissions by type and weight.	20
EN22	Total weight of waste by type and disposal method.	17
EN29	Significant environmental impacts of transporting products and other goods and materials used for the organization's operations, and transporting members of the workforce.	9-11
EN30	Total environmental protection expenditures and investments by type.	16
SOCIAL PERFORMANCE		
SO5	Public policy positions and participation in public policy development and lobbying.	20



ADDITIONAL RESOURCES

EC2: https://adapt.nd.edu/resources/1107/download/Climate_Considerations_Chicago_FINAL.pdf

EC8: http://www.cityofchicago.org/city/en/depts/water/supp_info/lmo2-2011

EN6: www.retrofit.cityofchicago.org

EN8: http://www.cityofchicago.org/city/en/depts/water/supp_info/lmo2-2011.html

EN11: <http://www.chicagoparkdistrict.com/assets/1/23/StratPlan-FINAL%5B1%5D2.pdf>

EN14: <http://www.cityofchicago.org/content/dam/city/progs/env/ChicagoGreenStormwaterInfrastructureStrategy.pdf>

EN16: <http://www.cmap.illinois.gov/documents/20583/5cdecf97-efbe-4b93-ad3d-899fd5b2447bbe-4b93-ad3d-899fd5b2447b>



RECOGNIZED FOR ACHIEVEMENT

Mayor Emanuel, the City's departments and sister agencies have been recognized for leadership on sustainability by many. *The Sustainable Chicago 2015 Action Agenda* has been specifically honored with two prestigious awards, recognizing the City's vision on sustainability.

- 2013 Chapter Mission Award (The U.S. Green Building Council – Illinois Chapter)
- 2014 The Daniel Burnham Honor Award (American Institute of Architects – Illinois)

ACKNOWLEDGEMENTS

We cannot express enough gratitude to the many people that have partnered with us in our commitment to make Chicago the most durable, competitive, and sustainable city in the country. The goals of the Action Agenda have been embraced across the city and progress continues with each day. Although it is impossible to list every person individually, we acknowledge everyone that has contributed their time, expertise, and ideas, and are grateful for the dedication of the many thousands of Chicagoans who strive for an environmentally and economically sustainable Chicago.

Yours,

Karen Weigert
Chief Sustainability Officer
Office of the Mayor
City of Chicago
@SustainChicago
December 2014

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STUDIO  DESIGN



