

SUSTAINABILITY REPORT

Fiscal Year 2013-14

Leadership &
Education



Resources &
Energy



Transportation &
Mobility



Waste Management &
Recycling



Development &
Infrastructure



JULY 2014



Naperville

ACKNOWLEDGMENTS

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WHY SUSTAINABILITY?

- The Changing Landscape of Society – Organizations today face heightened expectations around their wider role in society.
- The Role of Government – Agencies have a civic responsibility to properly manage public goods, resources, and/or facilities in a way that supports sustainable development objectives and promotes the public interest.

TABLE of

CONTENTS

INTRODUCTION

p. 4

A New Look
Environmental Sustainability Plan
Benefits of Sustainable Reporting
Sustainable Categories



LEADERSHIP & EDUCATION

p. 5

Cool Cities Resolution
Strategic Plan Connections
Naperville Receives Bronze Level Bike Friendly Award
Greenhouse Gas Inventory



RESOURCES & ENERGY

p. 7

IMEA Grant
Renewable Energy Grant
FD Ambulance ECOSMART Panel
Ice Bear Energy Project
Water Demand
Renewable Energy Program
Energy Consumption
Controlling Our Leaks
Salt Application Reduction Strategy
CNG Fueling Station



TRANSPORTATION & MOBILITY

p. 10

Sidewalk Program
Transit Ridership
Electric Vehicle Charging Stations
Strategic Initiatives
Green Fleet for the Future



WASTE MANAGEMENT & RECYCLING

p. 11

Recycle My Fridge
Residential Electronics Recycling
Household Hazardous Waste
Curbside Recycling & Garbage
New Recycling Cart Program
Environmental Collection Center
Drug Collection



DEVELOPMENT & INFRASTRUCTURE

p. 13

Green Building Codes
Solar Energy Zoning
Emerald Ash Borer
EVCS Permits
LED Lighting
Sanitary System Lining
Storm Sewer Maintenance
Arbor Day Tree Sale

5 SUSTAINABLE CATEGORIES



LEADERSHIP & EDUCATION

The City of Naperville Strategic Plan recognizes environmental stewardship as a value reflected in the Naperville community. When it comes to the more efficient and effective use of our natural resources, the City of Naperville not only encourages residents and businesses to respect and protect the environment, but also is an active participant in doing the same. By embracing the role as a municipal leader in environmental sustainability, the City of Naperville becomes more marketable to businesses. These efforts will advance the City of Naperville into the global economy and protect the environment for future residents.



RESOURCES & ENERGY

Resources and energy represent a critical intersection between the City of Naperville as a consumer and the City of Naperville as a provider of such commodities. As a good consumer, the City strives to conserve resources in a fiscally responsible manner. As a provider of energy, the City facilitates informed decision-making by its consumers. As a provider of water, the City recognizes the finite availability of this resource and supports fiscally responsible conservation efforts.



TRANSPORTATION & MOBILITY

A sustainable transportation system is accessible, affordable, operates efficiently, and offers a variety of easily navigable transportation modes, which support a vibrant and successful community.



WASTE MANAGEMENT & RECYCLING

Waste management and recycling programs provide consumers with a variety of options to dispose of their waste while benefitting the environment in a number of ways.



SUSTAINABLE DEVELOPMENT & INFRASTRUCTURE

Sustainable development encourages economic growth and development while conserving resources in the long-term interest of individuals, the community, and our ecosystem. Key elements of sustainable development include:

- Thoughtful land planning
- Protecting land and ecosystems
- Using natural resources wisely

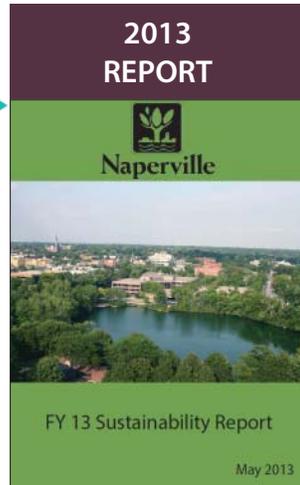
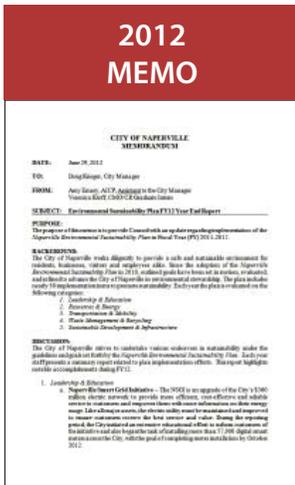
Naperville's sustainable infrastructure includes sanitary sewer lining, storm sewer maintenance, flood and storm water improvements, and tree preservation and protection measures.

DID YOU KNOW?

Naperville began curbside recycling in 1986, making it the first community in Illinois to offer this service for its residents.

INTRODUCTION

A New Look: 2013 - 2014



The redesigned FY14 Sustainability Report offers an attractive magazine style format. The exciting layout invites readers to learn more about Naperville's accomplishments. The report includes metrics to better evaluate our programs.

Naperville, Illinois, is one of the most livable cities in the nation. The City of Naperville understands that its success is defined in many ways. More and more, sustainability is becoming a prominent indicator of community prosperity and success. Even the financial sector has taken note and considers sustainability as a factor in making loan decisions and establishing bond ratings.

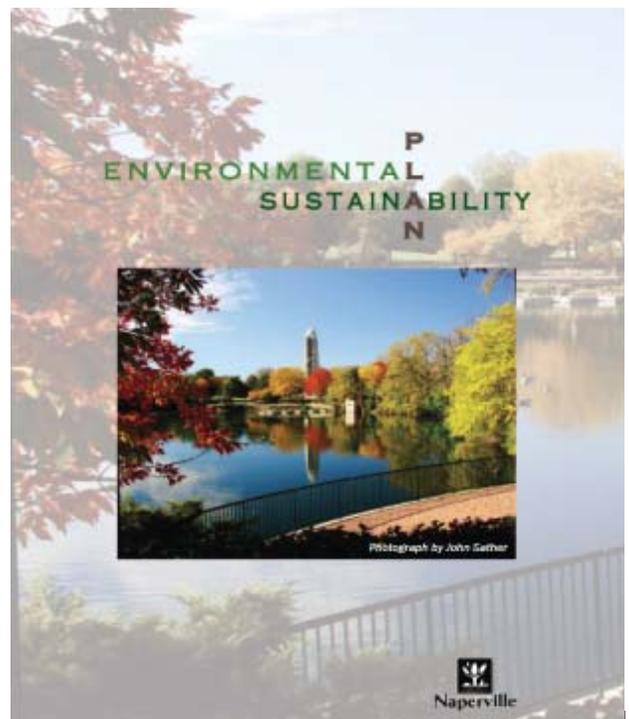
Naperville works diligently to provide a safe and sustainable environment for residents, visitors, and employees. Efforts are tied closely to the 2010 Naperville Sustainability Plan. The 2010 plan includes nearly 50 implementation objectives to promote sustainability.

Becoming a more sustainable City involves progress towards a series of interconnected goals. Advancement in each area enables new success in others. Through a collaborative approach emphasizing balanced, fiscally responsible and continuous involvement, we are building on Naperville's legacy of leadership and becoming a more sustainable City.

We hope you enjoy reading this report as much as we enjoy working towards a greener, more sustainable future.

Sincerely,

The Naperville EnviroTeam



BENEFITS OF SUSTAINABLE REPORTING:

- Operational efficiency
- Reputation management
- Employee satisfaction
- Long-term security
- Access to capital
- Stronger relationship with communities
- Minimized environmental and societal impacts



COOL CITIES RESOLUTION: APPROVED AND ADOPTED

On February 18, 2014, the Naperville City Council approved a Cool Cities Resolution expressing its commitment to the recommendations contained in the 2010 Environmental Sustainability Plan and recognizing the City for all of its accomplishments to date.

STRATEGIC PLAN CONNECTIONS TO SUSTAINABILITY

In November 2013, the Naperville City Council adopted a new strategic plan. All three goals contained in that plan inspire sustainability.

Strategic Plan Goal	2010 Sustainability Plan Relationship
Be an E-Government Innovator	The motivation behind this goal is to offer a convenient 24-hour government. As a result, trips to the Naperville Municipal Center can be reduced, if not eliminated. Fewer trips means less impact on the environment.
Reduce Traffic Congestion	Transit and Mobility is one section of the 2010 Sustainability Plan. Investment of City resources in transit and mobility promotes a sustainable, greener future and helps address Naperville's broader goals. FY14 achievements are profiled on page 10 of this report.
Set the standards for Community Education & Involvement	The City increased its commitment to strategic environmental communication success by incorporating comprehensive messaging into established, proven communication channels such as <i>Naperville Connected</i> .

LEADERSHIP & EDUCATION

The EnviroTeam portal provides online resources such as news, tips and events pertaining to sustainability.

Leadership and education pursuits outlined in the 2010 Naperville Sustainability Plan directly support the City's strategic plan. In FY14, the City of Naperville maintained an environmental webpage at www.naperville.il.us/enviroteam.aspx.

Since its inception in late 2012, site use has steadily grown. In 2013, 836 visitors browsed the EnviroTeam page. Seven hundred thirty-six of those visitors were "unique visits," or first time viewers. On average, customers spent nearly three minutes browsing the information.

Based on of the 2012 Citizen Satisfaction Survey, 66 percent of residents indicated the *Naperville Connected* newsletter was their primary source for City information. Each April, in conjunction with Earth Day, the entire *Naperville Connected* edition is dedicated to sustainability.

NAPERVILLE RECEIVES BRONZE LEVEL BICYCLE FRIENDLY AWARD

In 2013, the City of Naperville was once again recognized by the League of American Bicyclists as a Bronze Level Bicycle Friendly Community. In support of this recognition, City employees participated in a Bike to Work Week effort in May 2013.

Employees pedaled more than 1,000 miles to and from work during this week instead of driving. Bike to Work Week efforts were lead by the EnviroTeam in FY14. In future years, Bike to Work Week will be transitioned to the City's health and wellness committee.

This combined effort saved an estimated 0.55 metric tons of carbon.



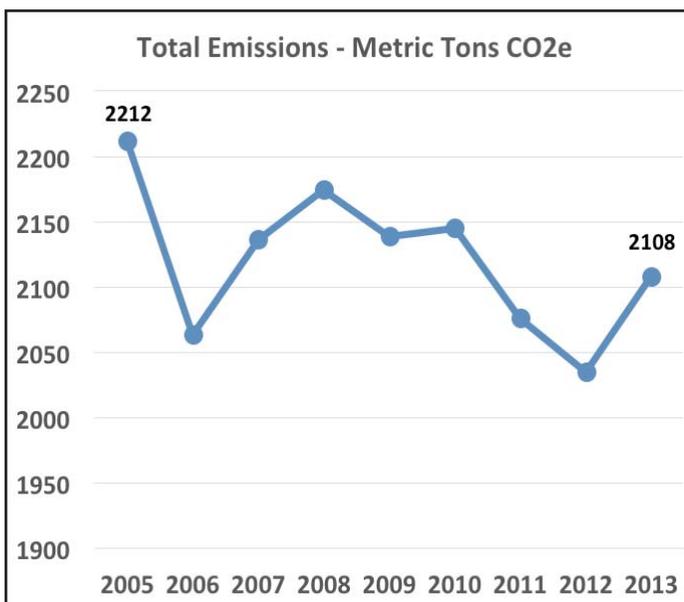
GREENHOUSE GAS INVENTORY - COMPLETED THROUGH PARTNERSHIP

Naperville completed a Greenhouse Gas (GHG) Inventory in 2005. A GHG inventory is a technical accounting of GHG. Estimating GHG emissions allows Naperville to understand its impact on the environment. The 2010 Environmental Sustainability Plan calls for the bi-annual update of the GHG Inventory. It was initially anticipated that this update would be completed by City staff in 2011 using available data from either 2007 or 2009. Reductions

in force made this impossible.

In July 2012, Stephanie Hastings, president of Naperville for Clean Energy and Conservation (NCEC), and Adrienne O'Neal, Indian Prairie School District 204 science teacher and iSTEM (Illinois Science, Technology, Engineering and Mathematics Education Initiative) student adviser, approached staff with an innovative idea for updating the GHG Inventory. The idea was to mobilize District 204 junior and senior level high school students with advanced science and math skills to gather the GHG data for 2005, 2007, 2009, and 2011. The data was gathered and submitted to the City of Naperville in 2013.

City staff then worked with Vikas Chandola, a Harvard master's degree student and longtime Naperville resident, to analyze the student data, add 2013 data, and finalize the update to the GHG Inventory. Through this update, the City learned that the total metric tons of carbon dioxide equivalent (CO₂e) showed a downward trend between 2005 and 2013. Similarly, there was a downward trend in other emission sources, such as electricity use; natural gas; and mobile sources, such as vehicles; during those years, pictured in the graph at the left. The full report can be found at www.naperville.il.us. The GHG report provides the most comprehensive measure of the City's sustainability efforts.



The City has reduced its carbon footprint by approximately 104 metric tons since 2005.



RESOURCES AND ENERGY

PUTTING DOLLARS TO WORK IMEA GRANT

In 2013 the Illinois Municipal Electric Agency (IMEA) Electric Efficiency Incentives Program awarded Naperville a three-year grant for energy efficiency projects.

The program helps reduce electric demand and consumption and therefore reduces IMEA members' wholesale power costs. This allows members to shift dollars for other needs and to enhance their economic climate by making utility costs more affordable for businesses. Naperville has been receiving power from the IMEA since 2011.

In 2013 and 2014, \$170,000 was available to non-residential customers for completing energy efficiency projects. The remaining \$170,000 will be used on sustainable City initiatives in 2015.

In FY14, Naperville awarded nine customer projects grants and installed LED street lighting. When all the projects are completed, an estimated total savings of 315.94 kW at the time of the City's peak demand can be realized. This would result in an annual energy savings of approximately \$50,000 per year.

RENEWABLE ENERGY GRANT

Naperville's Renewable Energy Program enables Department of Public Utilities-Electric (DPU-E) customers to make voluntarily monthly donations through their electric bills to support the City's investment in renewable energy.

Through effective in-house management of the program, the City has been able to save money and will invest it back into the community through the Renewable Energy Grant program.

Eligible applicants include local government or non-governmental organizations (e.g. schools and universities, parks, museums, institutions, service clubs, places of worship) that would like to invest in projects that can create opportunities for learning, increase renewable energy usage and can be replicated throughout the community.

In FY14, the City awarded \$17,500 to the Naperville Park District for a solar application at Nike Sports Complex. The panels will be able to generate as much as 30 percent of the energy used at that location.

INNOVATIONS

FIRE DEPARTMENT AMBULANCE ECOSMART PANEL

The most recent Naperville Fire Department ambulance includes all the standard life-saving equipment one would expect but also features a solar panel to charge vehicle batteries and operate the EcoSmart on-demand green air conditioning condenser unit. This unit is the most efficient in the emergency equipment industry and can reduce energy consumption by 52 percent over conventional technology.



SUCCESS

ICE BEAR ENERGY PROJECT

In April 2013, as part of a public-private partnership, Verde Energy USA purchased and installed an Ice Energy "Ice Bear" air conditioning unit at the City of Naperville's Water Service Center, 1200 W. Ogden Ave.

The Ice Bear replaces a conventional condensing unit, a component of a typical building cooling system, with an energy efficient model that generates and melts ice to create cool air. Comparing energy usage data prior to and following installation, a 49 percent reduction in energy costs was achieved. 2012 was a hotter summer than 2013 on average, and temperature plays a factor in overall costs experienced. However, energy analysis demonstrates the project is efficient and cost effective for the City.



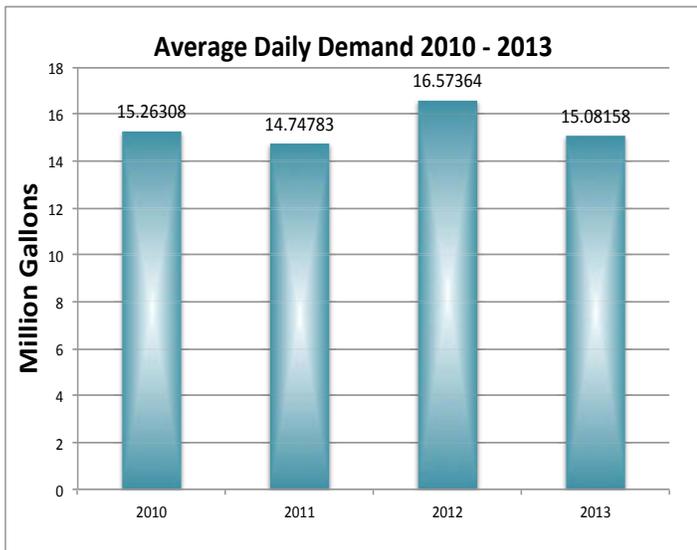
RESOURCES AND ENERGY

HOW ARE WE DOING?

All data is presented with 2010 as the baseline as this was the year the Naperville Sustainability Plan was approved.

WATER DEMAND

From 2010 to 2013, water consumption was highest during the summer of 2012. That summer saw record-breaking temperatures and a drought. Nevertheless, the City on average consumes less water now than in 2010.

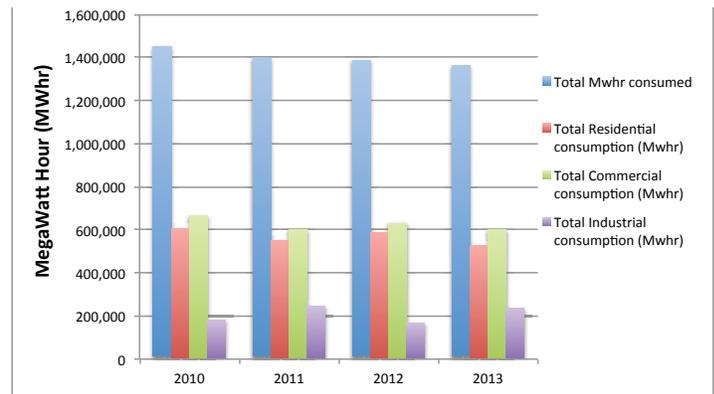


RENEWABLE ENERGY PROGRAM

Participation in the program, while still strong, has decreased. An opportunity exists to further promote the program to improve participation.

	2010	2011	2012	2013
Number of Participants	4,446	4,534	4,392	4,049
% change	N/A	1.94%	-3.23%	-8.47%
Amount of Energy (MWhr)	16,741	17,555	17,014	14,299
As % of all Energy Purchased	1.15%	1.26%	1.23%	1.05%

ENERGY CONSUMPTION BY CUSTOMER



CONTROLLING OUR LEAKS

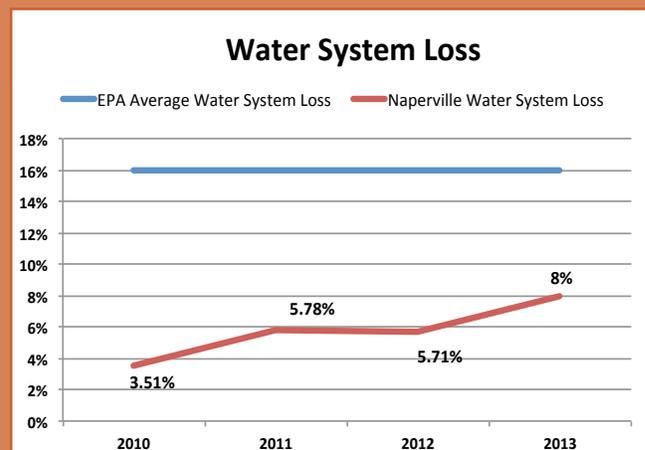
Since 2006, the Department of Public Utilities-Water (DPU-W) has annually tested 25 percent of the City's pipe system with sonar technologies to detect and fix leaks. Water loss typically occurs through water main breaks, service line leaks, hydrants that have not been closed or shut down properly, and valve stem leaks.

Average water loss rates for water systems of similar age and size as Naperville's range between 10% and 20%. The EPA reports water system loss nationally averages 16%. Naperville's commitment to leak detection keeps the City's ranges below this level. This is important because every 1% in water loss rate equals \$200,000 in purchased water costs.

A marked increase in loss was noted in FY12 that continued in FY13. As such, in FY14, the decision was made to test the entire system.

The findings of the 2013 program identified 52 confirmed system leaks, totaling an estimated daily flow of 522,000 gallons. This amount represents approximately

3.12% of the average daily use on the system. Currently the loss rate stands at 8%. The City expects the losses identified in FY14 will decrease in FY15. DPU-W will also conduct another system-wide assessment in FY15.





RESOURCES AND ENERGY

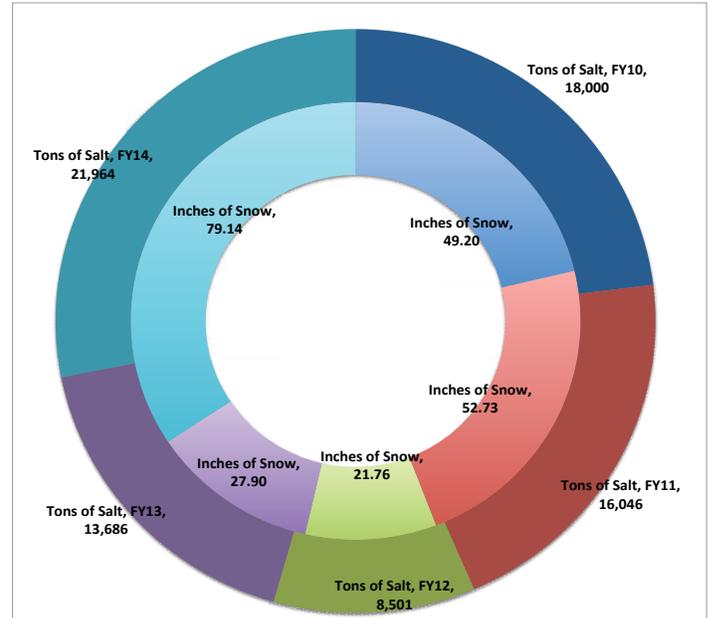
SALT APPLICATION REDUCTION STRATEGY

Due to a regional salt shortage in FY14, the City of Naperville implemented a salt conservation plan and established a priority plowing/salting system for the City's roads. The Department of Public Works (DPW) began supplementing the salt supply by mixing in sand for application on secondary roadways. DPW also employed conservation practices by focusing salting efforts on intersections and main streets.

As a result of these changes, drivers experienced some snow-packed roadways within neighborhoods but were able to safely adjust and accommodate for these conditions. In FY14, the City responded to 31 winter events and spread 16,000 tons of salt. Based on the FY14 experience, the City expects to continue these salt conservation methods in future years. This approach will minimize not only economic but also environmental costs.

The use of road salt has a negative environmental impact long after the winter season passes. Road salt can alter the chemistry of water, disturbing entire ecosystems. Salt can also erode infrastructure and vegetation. Conservative salting practices are also vital to preserving freshwater sources.

The graphics depict the City's reduction in road salt use in previous years. **There was a 24 percent reduction in salt application per inch of snowfall since FY10.**



	FY10	FY11	FY12	FY13	FY14
Inches of Snow	49.20	52.73	21.76	27.90	79.14
Tons of Salt	18,000	16,046	8,501	13,686	21,964
Ratio	365.85	304.30	390.67	490.54	277.53

IN THE WORKS - COMPRESSED NATURAL GAS FUELING STATION

As a community focused on sustainability, Naperville is ready to construct a compressed natural gas (CNG) fueling station that will provide quick and convenient fueling. CNG is 90 percent more efficient than gasoline, reduces greenhouse gas emissions, and is in line with President Obama's call to Congress to reduce America's dependence on foreign oil.

Naperville has interest from committed partners. NICOR is offering to help design the station and provide a CNG fleet that will use the facility. The Naperville Park District and the Forest Preserve District of DuPage County are both interested in transitioning to CNG vehicles and would use the station if built.

The City's waste hauler, Republic Services, is also looking to utilize Naperville's CNG station while it constructs its own fueling station. In addition, local car dealerships

could use the station as they have new CNG vehicles that are making their debut on the market. An investment in CNG will save taxpayers millions of dollars and provide opportunities for economic growth through public-private partnerships.



Conceptual design for CNG station at DPW, 180 Fort Hill Drive.



HOW ARE WE DOING?

Walking and sustainable transit have benefits that include the reduction of fossil fuel use, carbon dioxide emissions, and traffic congestion.

SIDEWALK PROGRAM

	2010	2011	2012	2013
# ft. or mi. added	4,128 linear ft. 0.8 miles	5,084 linear ft. 1.0 miles	6,823 linear ft. 1.3 miles	5,372 linear ft. 1.0 miles

In FY14, Naperville's sidewalk program achieved a decade milestone. Over that time, the program has closed 69 gaps across the community, totaling approximately 12.47 miles. Priority locations for these improvements are walk-to-school routes to maximize their benefit to the community.

By creating a connected network of sidewalks,

ELECTRIC VEHICLE CHARGING STATIONS

Due to the popularity of the Electric Vehicle Charging Stations in the downtown Van Buren surface lot, the Naperville City Council approved an additional three charging stations for the downtown and a nominal fee of \$1.50 an hour to charge electric vehicles in FY14. The stations will be installed in FY15.

	2010 & 2011	2012	2013
# Stations	program	1	1
# Plug Ins	not initiated	161	707
% Change	until 2012	N/A	32%
Consumptions (kWhr)		842	4,783
% change		N/A	100%



the City hopes that more people will choose to walk for their health and environmental benefits.

TRANSIT RIDERSHIP

Metra has not updated its transit information since 2006; therefore, Naperville's ridership numbers are the same: one route, 59 trains and 9,905 riders.

Pace updates ridership numbers annually. Over the years the numbers have fluctuated; however, FY14 numbers show a 12 percent increase in ridership.

PACE Ridership	2010	2011	2012	2013
# Routes	19	19	19	19
% Change	0	0	0	0
# Riders	1,234	1,276	1,167	1,315
% Change	-4.50%	3.4%	-8.60%	12.70%

STRATEGIC INITIATIVES

In FY14, the City of Naperville approved a new strategic plan. One of its three goals is to improve traffic flow and congestion. This issue has been the number one concern of residents in citizen satisfaction surveys for more than a decade. The 2010 Naperville Sustainability Plan also recognized this same issue with the following goal: "Investigate technology and innovative programs

to maximize the use of the existing transportation network." Naperville received \$1.9 million in federal funds to initiate the Centralized Transportation Management System. This system will synchronize and coordinate traffic signal operations and provide a platform for future real-time mapping of traffic congestion.

IN THE WORKS - A GREEN FLEET FOR THE FUTURE

In addition to the CNG Fueling Station noted in the Resource and Energy section, Naperville is working toward the development of a sustainable vehicle fleet. With more than 300 vehicles, Naperville's fleet is its most significant contributor to carbon emissions. The City is also working towards "rightsizing" vehicles by using bicycles at certain facilities and being conscious of decisions that affect the environment.





WASTE MANAGEMENT

HOW ARE WE DOING?

RECYCLE MY FRIDGE PROGRAM

In FY14 the Department of Public Utilities-Electric promoted the Illinois Municipal Electric Agency's (IMEA) "Recycle My Fridge" program. This initiative provided free pick-up and recycling for old refrigerator and freezer units. Promoting this program is a benefit to residents and the City – residents receive a gift card and save on electricity, and the City sees a reduction to its carbon footprint.

RECYCLE MY FRIDGE PROGRAM				
	2010	2011	2012	2013
Number of units recycled	N/A	120	63	53
CO2 savings (tons)	N/A	1,148	603	507

RESIDENTIAL ELECTRONICS RECYCLING

Due to the rapid pace of technological advances, electronics have shorter lifespans, which contributes to more waste. The City of Naperville successfully piloted a Residential Electronics Recycling Program in FY11 and state legislation mandated electronics recycling in 2012. The culmination of these events have created a demand from the community for electronics recycling, which the City is addressing through the creation of the Environmental

RECYCLING				
	2010	2011	2012	2013
HHW Collection	200 TONS	200 TONS	216 TONS	266 TONS
Electronics Recycling	N/A	434,950 LBS	485,801 LBS	825,800 LBS
Refuse Collected	38,781 TONS	38,367 TONS	37,813 TONS	37,076 TONS
Recycling Collected	16,703 TONS	16,484 TONS	16,187 TONS	15,605 TONS
Diversion Rate	30.10%	30.05%	29.90%	29.60%



Collection Center (see page 12). In FY14 the City collected 825,800 tons of electronics, which is nearly double the rate from FY13.

HOUSEHOLD HAZARDOUS WASTE (HHW)

Naperville is host to one of only four permanent HHW collection locations in the state. Upon the completion of the Environmental Collection Center in FY15, residents will be able to deposit all HHW in one location. Currently the HHW center is located at Fire Station No. 4, 1979 Brookdale Road. In FY14 the HHW collection rate was 266 tons of materials, including oil, anti-freeze, cleaning products, flammables, batteries, fertilizers, paints, prescription medications, herbicides, and more.

CURBSIDE RECYCLING & GARBAGE

Naperville's curbside recycling program has grown and improved from a bi-weekly service that required a large amount of sorting to a weekly service that requires virtually no preparation work at all. In FY14 the City's contractor collected 37,076 tons of refuse and 15,605 tons of recyclables. The City's diversion rate, or the rate of trash that is diverted from the landfill, is 29.6 percent, while the national average, according to the Environmental Protection Agency (EPA) is 33.8 percent.

IN THE WORKS - NEW RECYCLING CART PROGRAM

The City of Naperville introduced a new recycling cart program in FY14 that will be implemented in FY15 for residents who are currently receiving curbside recycling service from the City. The new program will provide residents with wheeled recycling carts with lids that will not only offer a clean and convenient way for residents to dispose of recyclables, but also allow them to increase their recycling capacity. By increasing recycling, Naperville can attain higher waste diversion rates. As part of the program, residents will receive a blue 96-gallon wheeled recycling cart that is anticipated to be delivered to homes starting in September. Residents who wish to select a smaller size cart or opt out of the program entirely will have a chance to do so in the summer of 2014.

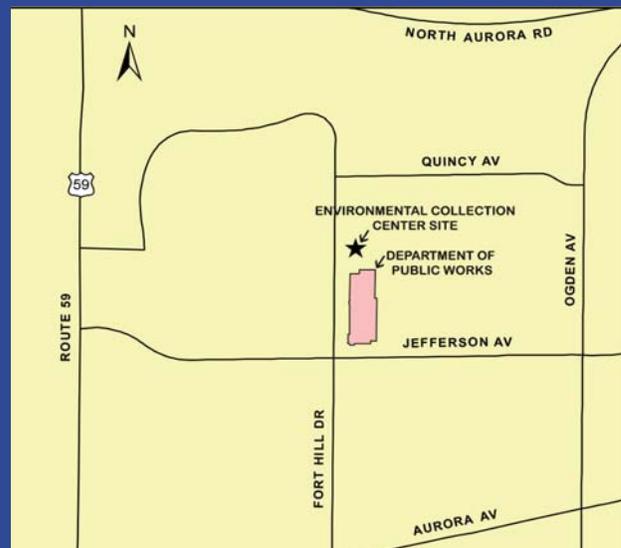
RECYCLING

ENVIRONMENTAL COLLECTION CENTER

In FY14, Naperville welcomed Governor Pat Quinn and other State of Illinois representatives as they announced the groundbreaking for the City's Environmental Collection Center. A \$900,000 state investment will help the City of Naperville build this center that will be a one-stop-shop for all recycling operations. This center will help accept electronic devices and other materials that have landfills overflowing with hazardous materials and devices with salvageable precious metals.

Once the center is completed, it will accommodate

multiple waste-specific drop-off and drive-through lanes for customers, making disposal of hazardous materials, e-waste, and traditional recycling materials easier and more convenient than ever before. The collection center will provide the capacity needed to increase the collected amount of recycled materials (currently 360 tons) and hazardous waste (currently 219 tons) annually. Construction is planned to begin this year.



PRESCRIPTION DRUG COLLECTION – PROTECTING OUR WATER SUPPLY

The City of Naperville launched a new Prescription Drug Drop Box Program in FY14 that allows the public to safely and anonymously dispose of unused prescription drugs at one of the City's 10 fire stations on a 24-hour, seven days a week basis. The Naperville Police Department also launched a program that features one drug drop box in the Naperville Police Department lobby.

Through the program, every Naperville fire station has a sealed drop box located outside of the building in which the public can place their unused/expired prescriptions and over-the-counter medication. The box in the Naperville Police Department lobby is open during normal lobby hours of 7 a.m. to 8 p.m. Monday through Friday.

Previously, residents could only dispose of this type of medication at the City's Household Hazardous Waste

(HHW) facility on Saturdays and Sundays during limited hours. The HHW continues to accept prescription drugs for safe disposal.

Drug take-back programs are beneficial to the environment. Improperly disposed of medication can alter water sources, harming all life dependent on those sources. Removing these chemicals from the water supply is time consuming and costly.

To date, the City has collected 81 gallons of unused/expired prescriptions and over-the-counter medication.





NAPERVILLE CONTINUES TO LEAD

GREEN BUILDING CODES

Since December 2012, all building construction must adhere to the 2012 Illinois Energy Conservation Code, which almost mirrors the 2012 International Energy Conservation Code.

Naperville’s Transportation, Engineering, and Development Business Group (TED) has three staff members who are Residential Energy Services Network (RESNET) certified so that they can assist builders and homeowners with compliance.

The code covers areas such as light and ventilation, insulation, windows and air leakage. This allows the City to address and assist the building community with energy efficiency.

SOLAR ENERGY ZONING

In March of FY14, City Council approved an amendment to Section 6-15-5:1 (Solar Energy Systems) to permit the installation of building-mounted solar energy systems by right in any residential district. It was previously a conditional use and therefore required City Council approval. This change will make it easier for residents to utilize solar energy.

EMERALD ASH BORER (EAB)

Some communities have chosen to cut their trees

upon discovery of the EAB; however, Naperville made a commitment to fighting this beetle to save as many of its ash trees as possible. A robust urban forest is essential for air quality and reducing the “heat island” effect.

In 2008, when EAB was initially discovered in Naperville, the City was home to 17,300 ash trees. In FY14, there are still 15,000. Naperville treats all healthy parkway ash trees with either Xytect (imidacloprid), Safari (dinotefuran) or Tree-Age (emamectin benzoate). In the two years since the City started treating ash trees comprehensively, only 1 percent of those treated with Tree-Age were removed. This is a good rate when compared with imidacloprid, which has a 5 percent removal rate.

ELECTRIC VEHICLE CHARGING STATION PERMITS

With the expanding market of electric vehicles, the City created two new permit types for electric vehicle charging stations (EVCS) – one for residential and one for commercial application. The specific permit types helped streamline the review steps needed and allowed the City to better track the number of total installations.

IN THE WORKS – LED LIGHTING



As noted in the Resources and Energy section, DPW, TED, and DPU-E have been working together on the LED streetlight replacement project. Through this effort, the City is replacing the existing high pressure sodium lights with LED lights. The LEDs have a higher upfront cost, however, they last more than three times longer and use much less electricity, saving the City significant costs in the long run.

HOW ARE WE DOING?

SANITARY SEWER SYSTEM LINING

In FY14 City officials approved additional funding to expedite completion of the sanitary sewer lining program in the Cress Creek subdivision in northeast Naperville. Lining the manholes in Cress Creek will be completed before the next phase of the project moves to Brush Hill and Will-O-Way subdivisions in the fall. City officials expanded the Sanitary Sewer Backflow Prevention Program city-wide to encourage homeowners prone to sanitary sewer back-ups to invest in equipment designed to prevent surcharges from entering their homes.

STORM SEWER MAINTENANCE

The Department of Public Works (DPW) provides ongoing and emergency stormwater management projects for the City. These management projects are meant to solve erosion control, stormwater system failures, and localized flooding. These projects include structure rebuilds and repairs, pipe-lining, reconstruction projects, patching work, and open drainage repairs and cleaning.

The City received around 750 annual requests from residents for stormwater related repairs. In FY14, in conjunction with TED, DPW worked to address localized flooding issues. The overall goal of the program is to reduce localized flooding issues and ensure a properly functioning stormwater system.

STORMWATER MANAGEMENT PROJECTS	
JULIE Locates: (marking for construction projects)	28,681 tickets
Inlets Cleaned/Inspected	4,660
Catch Basins Cleaned/Inspected	2,788
Sewer Lines Flushed	55,755 linear feet = 10.55 miles
Lines Televised: (camera looking for damaged storm lines)	18,675 linear feet = 3.54 miles
Pipes Re-lined:	21,982 linear feet = 4.16 miles
Storm Sewer Reconstructions:	215

TREE LOSS SUCCESS

In the past two years, tree removals related to the Emerald Ash Borer (EAB) have essentially leveled off to around 700 to 800 per year. This is counter to the “exponential mortality curve” experienced elsewhere. Science has shown that untreated tree populations will begin losing trees slowly and deaths will grow exponentially, eliminating the entire population in a few short years. At this point, Naperville should theoretically be seeing deceased trees in the multiple thousands, not multiple hundreds. This shows our tree treatment strategy’s efficacy.



ARBOR DAY TREE SALE

On April 26, 2014, the Department of Public Works held its 24th annual Arbor Day Tree Sale. A total of 478 trees were available, with 43 different species and sizes of container-grown trees.

Tree sales help the community in various aspects of sustainability. Besides providing clean air and fresh oxygen, trees help cool streets and the City, help save water, prevent soil erosion and provide a canopy and habitat for wildlife.

The City sold 470 trees through the Arbor Day Tree Sale. The eight remaining trees have been planted on City properties.



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