

Village of Glencoe – Sustainability Study

Appendix II

Nearby North Shore Communities

Evanston
Glenview
Highland Park
Northbrook
Skokie
Winnetka

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EVANSTON

4/24/2009

2/26/2009

2/4/2009

14-0-09

AN ORDINANCE

Adopting the U.S. Green Building Council's
Leadership in Energy and Environmental Design
Green Building Rating System for
Certain Construction and Renovation Projects in the City

WHEREAS, the City of Evanston (“the City”) Strategic Plan, adopted pursuant to Resolution 27R06 (“the Plan”), defines the City’s vision as: “Creating the most Livable City in America”; and

WHEREAS, the Plan further states that the City’s Natural Resources Vision is to be known as “the Green City” and commits the City to embracing the best ecological practices and policies in government, services and infrastructure; and

WHEREAS, Goal #4 of the Plan is to “create and maintain functionally appropriate, sustainable, accessible high quality infrastructure and facilities” and specific objective “E” of Goal #4 is “to better manage our buildings, prepare & implement a long-range and comprehensive facility maintenance plan”; and

WHEREAS, Goal #5 of the Plan is to protect and optimize the City’s natural resources and built environment, leading by example through sustainable practices and behaviors, specific objective “A” of Goal #5 is to “review current City policies and procedures to identify and improve sustainable and environmentallyfriendly practices for the City and its citizens,” and specific objective “B” of Goal #5 is to “identify

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and utilize new practices that will improve the quality of life that will enhance the City's sustainability"; and

WHEREAS, the U.S. Mayors Climate Protection Agreement, which the City adopted pursuant to Resolution 59R06, states: "We will strive to meet or exceed Kyoto Protocol targets for reducing global warming pollution by taking actions in our own operations and communities"; and

WHEREAS, the U.S. Green Building Council ("USGBC") is a nonprofit, nationally recognized association with membership representing all segments of the building industry, including architects, manufacturers, government agencies, and environmentalists; and

WHEREAS, USGBC has created the Leadership in Energy and Environmental Design ("LEED") Green Building Rating System™ which provides: specific principles and practices that may be applied to building design, construction, and operation; and a process by which buildings may receive certification from the USGBC as a "green building" for achieving certain sustainable standards of energy efficiency, sustainable site development, water savings, materials selection, and indoor environmental quality; and

WHEREAS, buildings account for thirtyeight percent (38%) of carbon dioxide (CO₂) emissions per year and the LEED Green Building Rating System directly addresses CO₂ emissions from buildings and their use; and

WHEREAS, buildings consume approximately thirty percent (30%) of the total energy and approximately sixty percent (60%) of electricity generated in the United States; and

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WHEREAS, City Code Subsection 6363 states that the public benefit of planned developments may include the substantial incorporation of generally recognized sustainable design practices and/or building materials to promote energy conservation and improve environmental quality, such as level silver or higher LEED (Leadership in Energy and Environmental Design) certification; and

WHEREAS, the City promotes resourceefficient design of new buildings in order to increase their energy efficiency, conserve financial and natural resources, and reduce the negative environmental impact of demolition, construction, and operation of buildings; and

WHEREAS, the City Council recognizes the significant longterm economic, health and environmental benefits to the City, its residents, and employees achieved through the use of LEED criteria; and

WHEREAS, the City Council finds that employing LEED criteria will diminish buildings' negative environmental effects, thereby promoting the health, safety, and welfare of City residents and employees,

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF EVANSTON, COOK COUNTY, ILLINOIS:

SECTION 1: That the new construction of all Cityowned or Cityfinanced buildings, all commercial buildings, and all multifamily buildings over ten thousand square feet (10,000 sq. ft.) shall employ the version of the LEED for New Construction and Major Renovations (“LEEDNC”) in effect one hundred eighty (180) days prior to the date of application for a building permit, and that each such new building shall achieve the following level of LEED certification:

A. for City-owned or City-financed facilities over ten thousand square feet (10,000 sq.

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ft.): Silver Rating or higher;

- B. for all commercial and multi-family buildings over ten thousand square feet (10,000 sq. ft.) in the City: Silver Rating or higher.

SECTION 2: That all interior renovations of and additions to all Cityowned or Cityfinanced facilities, all commercial buildings, and all multifamily buildings over ten thousand square feet (10,000 sq. ft.) shall employ the version of the LEED for Commercial Interiors (“LEEDCI”) in effect one hundred eighty (180) days prior to application for a building permit and that each project shall achieve the following level of LEED certification:

- A. for Cityowned or Cityfinanced facilities over ten thousand square feet (10,000 sq. ft.): Silver Rating or higher;
- B. for all commercial and multifamily buildings over ten thousand square feet (10,000 sq. ft.): Silver Rating or higher.

SECTION 3: That all applicants who propose projects that, per this ordinance, must be certified LEED Silver or higher, shall submit a proposed LEED credit checklist as a required part of any application for a Building Permit related to the project. The checklist shall identify the LEED credits the applicant intends to pursue for the project, the parties responsible for each credit, and a brief description of how each credit shall be earned. The checklist shall be signed by an accredited LEED Professional.

SECTION 4: That for any project that, per this ordinance, must be certified LEED Silver or higher, the applicant shall submit to the Building Official a completed LEED credit checklist before the Building Official issues a Final Certificate of Occupancy for the project. The checklist shall be signed by an accredited LEED Professional to verify the indicated credits successfully earned. The Building Official may

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request additional documentation related to the earned credits prior to issuing the Final Certificate of Occupancy.

SECTION 5: That before the City may issue a building permit to the applicant for any project to which Sections 1 and/or 2 of this ordinance apply, the applicant shall make a deposit with the City monies that equal five percent (5%) of the construction value for the project. If the certified LEED credit checklist, required by Section 4 of this ordinance, verifies that the required LEED certification was achieved, the City shall refund the deposit. If there is a dispute as to whether the project has achieved the applicable LEED requirements, the applicant may appeal to the City Manager or his/her designee. All monies collected but not refunded, shall be deposited in the Climate Action Fund of the Evanston Community Foundation.

SECTION 6: That design and construction of all new or replacement low-sloped roofs over five thousand square feet (5,000 sq. ft.), for all Cityowned or City-financed buildings, all commercial buildings, and all multifamily buildings in the City, shall comply with the standards of the U.S. Department of Energy and U.S. Environmental Protection Agency's "Energy Star" joint program.

SECTION 7: That the terms of this ordinance shall neither limit nor prohibit the applicability of the terms of Title 2, Chapter 9 of the City Code (the "Historic Preservation Ordinance") to any construction or renovation project.

SECTION 8: That the City strongly recommends ongoing training regarding green building practices for all City project managers, operation staff, and maintenance staff who supervise building design, construction, and operations.

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SECTION 9: That the City shall encourage the application of LEED criteria to any construction or renovation project not subject to this ordinance, whenever such application is practicable.

SECTION 10: That if any provision of this ordinance or application thereof to any person or circumstance is ruled unconstitutional or otherwise invalid, such invalidity shall not affect other provisions or applications of this ordinance that can be given effect without the invalid application or provision, and each invalid provision or invalid application of this ordinance is severable.

SECTION 11: That all ordinances or parts of ordinances in conflict herewith are hereby repealed.

SECTION 12: That this ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

Introduced: _____, 2009 Approved:

Adopted: _____, 2009 _____, 2009

Lorraine H. Morton, Mayor

Attest:

Approved as to form:

Rodney Greene, City Clerk

Elke B. ToberPurze, Interim First
Assistant Corporation Counsel

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Village of Glenview – Environmental Initiatives Update: January, 2009

Goal: Create and maintain – and encourage the creation and maintenance – of functionally appropriate, sustainable, accessible high quality infrastructure and facilities: encourage “green” operating policies

Strategy	2008 Initiatives	Team Leader	Due Date	Support Needed/Status
Building/Facilities	Review potential changes to Building Codes which permit use of energy saving technology or materials, develop white paper of potential codes for board consideration	Ken Lehmann	Underway	January 2009 proposed adoption of plumbing and ICC Performance Code. Plumbing code includes new standards for water conservation (temporary water service to be metered; high velocity water jet for flushing of sanitary sewers, new car wash fixtures to include a recycling component, AC units must be replaced with condensation recycling system.) In ICC Code, allows you to accept "greener" materials & system that haven't been tested as long as performance comparable to materials that have been tested.
	Incorporate energy saving components Into Station 7 design	Mike Sawicki	Complete	Rain barrels and water-saving devices incorporated into design.
	Consider powering Village water pumping stations with Green energy-R.E.C.'s. (~\$20 K premium)	Al Stonitsch/Peter D'Agostino	Complete	Offset 100% of energy use at water pumping stations with purchase of renewable energy. \$3000 premium
	Consolidate Data Servers to reduce heat and A/C demand	Amy Ahner	Underway	Network restructuring phase complete. Server consolidation and virtualization on track for end of January completion.
	Authorization of additional \$1MM to Library construction project for green Initiatives	Don Owen	Underway	Waiting for Library
	Redesign of Lake Glenview Well House to reduce electricity costs and water usage	Jerry B	Underway	Study for alternatives has been completed. New equipment installation is scheduled for 2009. Will reduce amount of water pumped from roughly 141 million gallons to 19 million gallons; should also result in \$43,800 in electrical cost savings.
	Participate in Illinois Department of Natural Resources Environmental Management System with Glenview Park District	Robyn Flakne	Complete	July, 2008
	Establish Village Employee Commuter Shuttle Program from DT Metra Station	Al Stonitsch	Complete	7 employees participating
	Install demonstration projects featuring native landscaping, rain gardens, rain barrels, etc. at public facilities	Robyn Flakne		Two public rain garden installations on Forest Drive are complete; a 2009 319 grant for Native Landscaping at three Village Detention Basins has been approved.

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Possible Future Projects				
	Create projection of 2009 surplus equipment to take advantage of computer vendor's disposal, donation and value recovery programs as the asset becomes available.	Amy Ahner		
	Develop purchasing policy considering the use of energy efficient products	Michelle Reynolds	Feb., 2009	In planning stages
	Encourage National Association of Home Builders (NAHP) or LEED Initiatives in village buildings	Ken Lehmann/Joe Kenney		Will move ahead pending JAF
	Install demonstration projects featuring native landscaping, rain gardens, rain barrels, etc. at public facilities	Robyn Flakne		Native Landscaping at three Village Detention Basins will take place in 2009.
	Develop policy regarding construction debris recycling	Mary Bak	2 nd Qtr 2009	Chicago Ord: requires 50% of construction and demolition debris to be recycled or reused
	Relax requirements that might inhibit solar panels and windmills	Ken Lehmann	2 nd Qtr 2009	Research memo completed; ordinance to be drafted
Strategy	Ongoing	Team Leader	Due Date	Support Needed/Status
Infrastructure	Annual Water Meter Replacement Program	Jerry Burke	Ongoing	469 Meters Installed YTD
	Annual Large Meter Testing Program	Jerry Burke	Ongoing	26 Meters Tested YTD
	Annual Water Main Leak Detection Program	Jerry Burke	Ongoing	
2008 Initiatives				
	Water Master Plan	Russ Jensen	Complete	
	Via Grant Funding changing out all of the incandescent traffic signal bulbs with LED's at Willow/Pfingsten and Willow/Shermer	Al Stonitsch	Complete	Develop cost savings report
	Water Relining Project. Relining reduces use of materials because the entire main doesn't need to be replaced.	Russ Jensen	Complete	Tanglewood project was completed in 2008 and was only the second such project permitted in Illinois to date.
	<ul style="list-style-type: none"> ➤ Modify Engineering Guide to encourage or require use of permeable pavement. ➤ Encourage or require native landscaping in detention basins 	Joe Kenney Drew Mayes	Underway	Staff has completed analysis on permeable pavement; awaiting MWRD changes before moving ahead. Board input required regarding incentives available to residents and businesses to encourage use.
Possible Future Projects				
	Annual Sewer Televising Contract	Jerry Burke	March 2009	Scheduled to start in January 2009

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Goal: Reduce Waste

Strategy	Ongoing	Team Leader	Due Date	Support Needed/Status
Reduce Waste	Computer recycling	Amy Ahner	Ongoing	
	Needle/sharp collection and recycling	Kerry O'Shaughnessy	Ongoing	
	Install recycling containers at all Village facilities to promote public awareness of recycling	Jerry B. / Tim S. / Peter D	Ongoing	
	(FLEET) Recycling motor oil, oil filters batteries, anti-freeze, and tires for Village fleet and equipment-ongoing. Village receives monies for recycling of motor oil	Jerry Burke	Ongoing	Fleet estimated to have recycled 2,400 gallons of motor oil, 200 gallons of coolant, 200 tires, 75-100 car batteries, and 300 oil filters.
	Contract to recycle scrap metal material from PW operations; Village receives some revenue for this	Jerry Burke	Ongoing	Estimated to have recycled 24,000 lbs of scrap metal.
	2008 Initiatives			
	CFL bulbs SWANNC recycling program	All/Tim/Peter	Complete	Recycling CFL bulbs in partnership w/SWANCC
	Document Destruction-public	Jerry B/Tim S	Complete	July 12, 2008 -- 179 cars w/ 5,100 lbs. of paper recycled application to be completed.
	Document Destruction-internal	Shakira Johnson	Complete	2008 record destruction completed at no cost with Groot.
	Distributed Request for Qualifications/Proposals/Bids In an electronic format wherever possible to reduce consumption of paper	All/Purchasing Agent	Complete	Most RFPs now being disseminated electronically, saving average of 30 pages/document copy.
	NIKE gym shoe recycling in partnership with SWANCC	Jerry B. / Tim S. / Peter	Complete	Implemented Jan. 2008
	Changed from 4-page JULIE locate ticket print out to 1-page; exploring paperless/wireless initiative	Matt Morrison	Complete	Currently doing a 30 day trial with Dig Track, a paperless ticket program
	Consider alternative reusable mugs/utensils at Village building	Tim S.	Complete	Installed dishwasher in Village Hall to reduce paper/plastic use.
	Holiday Light Recycling	Jerry Burke	Complete	Launched in December
	Computer recycling	Amy Ahner	Complete	Diverted 1,398 lbs of Village-owned electronics from landfill through material processing and recycling.
	Possible Future Projects			
	Implement e-bill and e-pay to reduce paper in Finance	Finance		2009

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	Investigate additional opportunities for bulk purchasing/reduce packaging.	Tim Schwister/ Michelle Reynolds		
	Reduce paper in Development, Planning, and Inspectional Services by encouraging more Electronic submissions, fewer copies	Carla Sepe		Plan Commission packets will be posted to video-streaming page on website in 2009 – reducing paper use.
	Explore opportunities to increase residential recycling via the Village's Refuse Franchise Agreement Renegotiations	Jerry Burke	3 rd Qtr. 2008	Still in Negotiations
	Explore opportunities to negotiate a "Green Fleet" proviso as part of the Village's Refuse Franchise Agreement Renegotiations	Jerry Burke	3 rd Qtr. 2008	Still in Negotiations
	Study the retrofitting municipal diesel engines with pollution control devices	Brett Barganz	2 nd Qtr 2009	Grants possibly available

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Goal: Protect and Optimize the Village's Natural Resources

Strategy	Ongoing	Team Leader	Due Date	Support Needed/Status
Natural Resources	Obtained riverbank stabilization and habitat Lot 16 improvement projects-319 Grants	Robyn Flakne Adriana Webb	Ongoing	Complete: Lot 16 riverbank stabilization and habitat improvement project.
	Wetland restoration	Robyn Flakne	Ongoing	One permit closed out for existing mitigation wetlands previously created at Air Station Prairie.
	Actively lead river/open area clean up and brush clearing	Robyn Flakne/NRC		May 10 River Day complete; fall cleanup completed November 15.
	Conduct school and scout troop planting events – wetland paintings, tulip bulbs	Robyn Flakne	Ongoing	Events on 6/1, 6/7, 6/8, 11/8 and 11/15.
	Participating in volunteer monitoring projects such as Bird Conservation Network monitoring, Plants of Concern monitoring	Robyn Flakne	Ongoing	Spring monitoring completed.
	Annually collect and mulch approximately 3,000 holiday trees in partnership with Park District	Jerry Burke	Ongoing	
	Adopt a Highway Program	Matt Morrison	Ongoing	In 2008 seven organizations sponsored events to pick up litter on highways, resulting in 6.9 miles being cleaned.
	Village annual contracts for the hauling and large diameter trees which the contractor sell as a commodity on the recycling market	Jerry Burke	Ongoing	The trees are used for mulch and pallets by a sub contractor.
2008 Initiatives				
	Final approval of Plan for Nature in Glenview	Robyn Flakne; NRC	Complete	Board approved in August, 2008
	Continued Rain Garden Program	Drew Mayes/James Tigue	Complete	\$20,000 Budget; won 2008 Excellence in Conservation award from Chicago Wilderness.
	Install educational signs in Gallery Park	Robyn Flakne	Underway	Design underway; installation in 2009
Possible Future Projects				
	Riverbank stabilization from Willow Road to north end of Techny Basin; East Bank south of Glenview Road?	Robyn Flakne	Underway	To be completed in 2009.
	Modify Engineering Guide to encourage use of bio-swales for detention	Joe Kenney/Drew Mayes	4 th Qtr	
	Identify NPDES initiatives that can be implemented on public projects and encouraged on private projects	Joe Kenney/Drew Mayes	4 th Qtr	

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Begin implementation of Natural Resources Strategic Plan; projects include detention basin retrofits, river restoration, and other habitat improvement suggestions	Robyn Flakne		
Detention Basin Retrofits – 319 grant awarded; begin design/build process	Robyn Flakne	3 rd Qtr 2009	
ESA designation process to begin for Gallery Park/Areas adjacent to Air Station Prairie	NRC/RF	1 st Qtr 2009	

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Goal: Coordinate and influence transportation resources to provide an improved system that is safe, integrated, accessible, responsive, understandable, efficient, and meets the needs of all people

Strategy	2008 Initiatives	Team Leader	Due Date	Support Needed
Transportation	Design Milwaukee Avenue streetscape plan, including sidewalks and tree planting plan	Joe Kenney/Drew Mayes	Complete	Support RFP to be advertised first week of July
	Adopt consolidated driveway program on heavily travelled roadways to reduce congestion and improve air quality	Jeff Brady/Mary Bak	Complete	
	Employee commuter shuttle from Metra station	Al Stonitsch	Complete	Seven employees
	Hold Bike Safety Fair	Police	Complete	Held in May, 2008
	Obtain grant for Techny Trail extensions	Joe Kenney	Complete	Design/construction will kick off in 2009
	Possible Future Projects			
	Continue efforts to relocate Amtrak to North Glenview station to reduce traffic backups and improve air quality in the downtown area	Don Owen / Chris Clark	Complete	
	Hybrid cars	Jerry Burke		A CERF analysis will be conducted in Q1 of FY2009. The Fleet is currently being examined.
	Design and building Techny Trail extension	Joe Kenney		
	Review idling policy for Village vehicles			
	Participation in a North Shore Electric Vehicle Alliance - to start using electric cars in fleet.	Jerry Burke		

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Goal: Undertake an ongoing public information campaign to educate residents about environmental issues and resources

Strategy	Ongoing	Team Leader	Due Date	Support Needed
	Generally promote "green news" in all communications channels.	Janet Bishop	Ongoing	All staff
	Speaking engagements to promote Tyner Center initiatives, rain garden program	Janet Bishop	Ongoing	Robyn Flakne
	Explore whether there are free video resources we could air on GVTV	Janet Bishop/Julie Gray	Ongoing	Have shown Department of Agriculture Video magazine - "Partners" - "power of green" "Fats to fuel" etc. SWANCC program -- "Taking care of Our Earth".
2008 Initiatives				
	Take a more coordinated approach to promoting Village environmental efforts and initiatives	Janet Bishop	Complete	All staff
	By February develop a "green page" on the website and a "green column" in the newsletter that incorporate all of the strategies listed under this goal	Janet Bishop	Complete	Launched February 2008
	Call out these initiatives as a program in the community report to be released in June/July	Janet Bishop	Complete	
	Announcement of Heritage Tree winners/encourage more nominations	Robyn Flakne	Complete	
	Create "green tip of the week" for employee e-newsletter; promote environmentally friendly employee behavior via SCC and ECC meetings, Department meetings and All Staff meeting in April.	Julie Gray	Complete	
	Brochure describing the Natural Resources Plan	Robyn Flakne/Janet Bishop	Complete	
	Work more closely with SWANCC -- will be joining Glenview Communicators to facilitate communication and help with "Go Green Glenview" effort.	Janet Bishop	Complete	
Possible Future Projects				
	Through Glenview Communicators, develop "Go Green Glenview" campaign to (1) raise awareness about what each agency is doing to "go green" (2) help residents in taking action steps for making a difference and (3) provide resources to help make "going green" easier.	Janet Bishop	Earth Day '09 or July Summer Festival	Working with School Districts 30,31,34, 225; Park District; Library; Northfield Township; Glenbrook Hospital; Chamber of Commerce; SWANCC.

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Outstanding Achievement - SMALL CITY

organic waste, accelerate decomposition and increase methane production. The rate gas is produced increases by 36% over a standard landfill, allowing more renewable energy to be generated.

How was the program financed? In 2006, a \$60 million electric bond issue, including \$3 million for the biogas project, passed with 86% approval by voters. The program came in under budget at \$2.85 million.

How has this program improved the quality of life in the local community? The biogas plant helps the environment by using methane gas from the landfill to create energy, instead of having it released into the air. Biogas energy also diversifies Columbia's power portfolio by displacing some of the electricity generated from fossil fuels. This type of renewable energy is somewhat more reliable than intermittent sources of power such as solar or wind. An added bonus is that biogas energy is created in Columbia, so the city saves on transmission fees to transport the energy.

Highland Park, IL Mayor Mayor Michael Belsky

Program Name: Highland Park Illinois Green Initiatives Alliance

Program Description: The Highland Park, Illinois Green Initiatives Alliance is a collaboration of the City of Highland Park; the Park District of Highland Park; School Districts 112 and 113; The Highland Park Public Library; Moraine Township and interested residents, with the commitment of working collectively on shared goals and strategic objectives designed to transform Highland Park into a more environmentally efficient and responsible community for the benefit of future generations.

Why did the city identify the need for this program? Each governmental entity is aware of the importance of careful management of local natural resources, not only through good conservation and recycling practices, but also through policies and practices that promote the conservation of ecological support systems. The City, The School Districts, Park District, Library, and Township recognized the benefits of acting together to increase awareness and to develop new policies, practices, and initiatives that promote sustainability.

What were the challenges faced and overcome to implement it? The group has entered into a Memorandum of Understanding (MOU) that outlines a list of policies promoting sustainability. The first draft of the MOU submitted was established in September 2007. The members of the Alliance had formed an agreement on how this was to be presented to the various governing boards for their approval. The major challenge faced by the alliance was reaching a consensus among the members on how to phrase each policy. After months of editing, the members of the Alliance presented the MOU to the respective governing boards for approval. As of March 10, 2008, all of the governmental bodies have approved the MOU.

How has the program reduced greenhouse gas emissions in the community? Replaced 22 Crown Victoria vehicles with hybrid vehicles, which reduced fuel usage by 3,382 gallons from June 2007 through December 2007 - Utilized green-building principles in the construction of new Police Headquarters - Replaced R-22 gas with Puron gas in City air-conditioning units to limit ozone depletion.

How is this program outstanding or innovative? Highland Park's program is unique, in that it is a collaborative effort with other local governments. Each entity involved makes an impact in many different ways on the lives of the citizens of our community, which provides for a consistent message to the public regarding the Alliance's commitment to environmental

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Outstanding Achievement - SMALL CITY

sustainability. The creation of the Highland Park Green Initiatives Alliance has led to concrete strategic objectives for environmental sustainability.

How was the program financed? Each government contributes resources and personnel for implementing the initiatives. Most costs to date are fixed and thus are shared equally by all of the participating entities.

How has this program improved the quality of life in the local community? As each unit of government works together toward the goal of environmental sustainability in their everyday practices, the community benefits, as these initiatives improve the quality of the air, land and water. The reduction in fuel consumption as a result of switching to hybrid vehicles lessens greenhouse gas emissions, but also reduces fuel spending.

Orland Park, IL Mayor Daniel J. McLaughlin

Program Type: Fuels, Vehicles & Transit

Program description: To reduce greenhouse gas emissions and the associated environmental impacts of using diesel-fueled machinery, Orland Park utilizes B-5 biodiesel fuel for municipal operations. B-5 fuel is used for operating 51 on street diesel-fueled vehicles, 36 non-street vehicles, and equipment, including backup power generators. Through an intergovernmental agreement, the village also supplies B-5 biodiesel fuel to the local Fire Protection District. The Village has purchased approximately 55,000 gallons of B-5 fuel annually since 2003. Its use has resulted in reductions of Hydrocarbons, Carbon Monoxide, Nitrous Oxide, Sulfur Dioxide, and Carbon Dioxide emissions.

Why did the city identify the need for this program? As the Mayor and Board of Trustees became aware of the environmental benefits of using biodiesel, including reduced emissions and utilization of renewable resources, Mayor McLaughlin and the Board directed the Public Works department to explore its potential for Village operations. Though slightly more costly than traditional diesel fuel, the Mayor and Board believed that the environmental benefits offered by B-5 were in the best interest of Village residents and directed that it be used for Village operations.

What were the challenges faced to implement it? Initially B-20 fuel, consisting of 20% biodiesel fuel, was used. It was then discovered that using B-20 fuel would void vehicle warranties. The costs and liabilities associated with voiding vehicle warranties necessitated that the Village switch to using B-5 biodiesel – which would provide environmental benefits, but would not void vehicle warranties nor require costly retrofits to the vehicles. The Village intends to return to using B-20 fuel as it becomes acceptable under warranty, and continues to monitor manufacturer's specifications for this change.

How has the program reduced greenhouse gas emissions in the local community? Approximately 55,000 gallons of B-5 biodiesel is used per year. Using B-5 diesel fuel has resulted in the following emissions reductions over using the same amount of traditional diesel fuel: 3% (18.4 pounds) decrease in Particulate Matter; 5.4% (25 pounds) decrease in Hydrocarbons; 3.23% (205 pounds) decrease in Carbon Monoxide; 0.5% (40.5 pounds) decrease in Nitrous Oxide; 5% (12 pounds) decrease in Sulfur Dioxide; and 3.92% (44,304) pounds decrease in Carbon Dioxide (Source: www.biodiesel.org)

Why this program is outstanding or innovative. B-5 diesel fuel is not widely used for municipal vehicle and equipment operations because of increased costs. The use of the fuel by the Village of Orland Park demonstrates a dedication to improving the environment for residents, visitors, and the larger global community.

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Northbrook’s Green Build Incentive Program

The built environment has a large impact on Village residents through resource consumption, energy use, and effects on health. In light of this, the Village of Northbrook has established a program in conjunction with the LEED rating system to promote Green building techniques in public and private sector construction projects.

What is LEED?

The U.S. Green Building Council (“**USGBC**”), an organization comprised of the nation’s foremost leaders from the building industry, is committed to promoting the development of buildings that are environmentally responsible, profitable and healthy places to live and work. To this end, the USGBC has developed the Leadership in Energy and Environmental Design (“**LEED**”) Green Building Rating Systems, which are performance oriented rating systems for both new construction and existing buildings based on generally accepted energy and environmental principles.

To implement this Green Building Initiative, the Village will use the *LEED rating system* (system accepting project applications, as determined at the time of commencement of building design) to distinguish different levels of sustainability in construction projects. In turn, for building green, there will be a rebate for *Covered Permit Fees* (permits issued by the Building & Development Department for new buildings, additions, demolitions, alterations and site work) based on the LEED rating of the project.

LEED Classifications	
Rating	Permit Fee Rebate
Certified	10%
Silver	20%
Gold	30%
Platinum	40%

****Consider being a pioneer for the Green Building Initiative! The **first** of each of the following project categories to attain a LEED “Certified” rating or higher shall receive a **100%** refund of all Covered Permit fees!****

- (A) newly constructed commercial building,
- (B) newly constructed institutional building,
- (C) newly constructed residential building, and
- (D) alteration of an existing building, regardless of the use of the property.

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Process and Incentives

1. **Submit** an application for enrollment into the Green Building Initiative simultaneously with an application for Permit. ****NO fee for application****
2. The Green Building Official will review all applications. If the Official determines that the application is complete, you will be notified that your project is **enrolled** in the Green Building Initiative and all affected departments will be noticed.
3. After receiving notice that a Project has been enrolled in the Green Building Initiative, the Department of Building & Development shall **prioritize** the enrolled Project over all other Projects not enrolled in the Green Building Initiative.
4. Upon completion of the project and obtaining your certification from the USGBC, your permit fees will be **refunded** based on the level of certification, (or refunded 100% if you are the first in that category to receive certification) by submitting proof of your certificate.

* Enrolled Projects shall be processed in the order they were received*

Recognition

Each Project enrolled in the Green Building Initiative will receive the following public recognition:

- 1.. permission to include a statement of enrollment in the Green Building Initiative on construction signs and marketing materials for the enrolled Project; and
2. a featured mention of the Project on a dedicated section of the Village website and monthly newsletter promoting the Green Building Initiative

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ARTICLE XV. GREEN BUILDING INITIATIVE

Sec. 6-230. Purpose.

The village desires to establish a set of incentives to promote the use of environmentally friendly building techniques for both public and private sector construction projects and encourage sustainable development throughout the village.

(Ord. No. 08-24, § 2, 5-13-2008)

Sec. 6-231. Definitions.

As used in this article, the following terms shall have the following meanings:

Covered permits means permits issued by the building and development department for new buildings, additions, demolitions, alterations and site work.

Green Building Official means the member of the village staff appointed by the village manager to oversee the administration of the Green Building Initiative.

LEED means the Leadership in Energy and Environmental Design Green Building Rating System, which is a USGBC-designed voluntary, consensus-based national rating system for developing high-performance, sustainable buildings.

LEED accredited professional means a person who has received the LEED accredited professional designation from either USGBC, the Green Building Certification Institute or another entity authorized by the USGBC to grant such designation.

LEED rating system means either the most current version of a LEED Green Building Rating System that has been adopted by the USGBC or a pilot LEED rating system accepting project applications, as determined at the time of commencement of building design (for projects described in subsection 6-232(a)) or application for the Green Building Initiative (for all other projects).

LEED checklist means a scorecard developed by USGBC to show the credits pursued and total points anticipated for a project under the selected LEED rating system.

Project means new construction or alteration undertaken on a building or structure by any person or entity.

USGBC means the United States Green Building Council, a private nonprofit organization.

(Ord. No. 08-24, § 2, 5-13-2008)

Sec. 6-232. Village projects.

(a) For each project involving construction of a new building for use and occupancy by village employees commenced after June 1, 2008, village staff shall seek the highest level of certification achievable under the most appropriate LEED rating system, as determined by the Green Building Official and village manager; provided that attaining such certification must be cost-effective and within the limits of available funding for the project.

(b) If the scope, design, or type of a project described in subsection 6-232(a) limits the feasibility of attaining LEED certification, village staff shall incorporate cost-effective green building practices into the design and operational plans for the project to the extent practicable.

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(Ord. No. 08-24, § 2, 5-13-2008)

Sec. 6-233. Incentive program.

(a) *Voluntary program.* Any person or entity required to obtain covered permits for a project may participate in the Green Building Initiative Incentive Program described in this section. Participation in the Green Building Initiative is entirely voluntary. Any person or entity not participating in the Green Building Initiative shall have the right to undertake a project in any manner otherwise authorized under the Northbrook Municipal Code.

(b) *Application.*

(1) *Fee.* No fee shall be required in connection with an application for the Green Building Initiative Incentive Program.

(2) *Contents.* Any person or entity that desires to apply for the Green Building Initiative Incentive Program set forth in this section must submit to the village, on a form provided by the village, the following information:

- a. Proof of registration of the project with the USGBC;
- b. Identification of the specific LEED rating system to be applied to the project, as determined by the applicant;
- c. A LEED checklist indicating the LEED credits the applicant intends for the project to achieve; and
- d. The name and contact information of a member of the project team who is a LEED accredited professional.

(3) *Partial applications.* A person or entity may apply for the Green Building Initiative Incentive Program for only a portion of a project if the applicant intends to seek LEED certification for only a portion of the buildings included within the scope of its application for the covered permits. In such event, the Green Building Official shall determine which, if any, covered permits are eligible for expedited permitting and review pursuant to subsection 6-233(c) and a pro-rata portion of the covered permit fees eligible for rebate under subsection 6-233(d).

(4) *Acknowledgment.* Any person or entity who files an application for the Green Building Initiative Incentive Program shall be deemed to acknowledge and agree that:

- a. Participation in the Green Building Initiative is entirely voluntary;
- b. Any action, inaction, approval, or disapproval by USGBC does not constitute any deprivation of rights by the village;
- c. Any decision by the Green Building Official or village manager to expel an applicant from the Green Building Initiative Incentive Program pursuant to this section does not constitute a deprivation of such applicant's rights; and
4. The applicant shall have no right to appeal or otherwise challenge a determination of the Green Building Official or village manager with respect to an application except as expressly set forth in this section.

(5) *Timing.*

- a. An applicant seeking expedited permitting and review, as provided in subsection 6-233(c) must submit its application for enrollment into the Green Building Initiative simultaneously with its application for the covered permits.
- b. An applicant seeking only permit fee rebates, as provided in subsection 6-233(d), may submit its application for enrollment into the Green Building Initiative at any time prior to

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obtaining a final certificate of occupancy from the department of building and development.

(6) *Approval.* The Green Building Official will review all applications. If the official determines that the application is complete, he will enroll the project in the Green Building Initiative and notify all affected departments.

(7) *Subsequent documentation.* An applicant with a project enrolled in the Green Building Initiative shall provide documentation to the Green Building Official relating to the status of the project's registration and application for LEED certification upon request. Documentation requested by the Green Building Official may include, without limitation, a copy of the project's LEED application (which may be in draft form) that includes LEED submittal templates and supporting documentation for all LEED prerequisites and credits proposed for the project. An applicant shall, if offered by the USGBC, submit its project for design phase review to determine the likelihood of receiving LEED certification. The applicant shall provide to the village copies of all materials prepared for and resulting from such review, including, but not limited to, comments and determinations provided by USGBC.

(c) *Expedited permitting and review.*

(1) *Prioritization.* After receiving notice that a project has been enrolled in the Green Building Initiative, the department of building and development shall prioritize the enrolled project over all other projects not enrolled in the Green Building Initiative for permitting and review for the covered permits. Enrolled projects shall be processed in the order received.

(2) *Noncompliant determinations.* At any time prior to the issuance of the final certificate of occupancy for a project seeking expedited permitting and review, the Green Building Official may, in consultation with the village engineer and after discussion with the applicant, determine that the applicant has not incorporated into a project's design, engineering, or construction green building elements and requirements:

- a. Identified in the applicant's Green Building Initiative application; or
- b. Otherwise sufficient to qualify the project for certification under the selected LEED rating system.

Upon such determination, the Green Building Official shall issue a notice of noncompliance to the applicant and, subject to the appeal process described in subsection (c)(3), expel the project from the Green Building Initiative. If a project is expelled from the Green Building Initiative, the Green Building Official shall have the discretion, after consulting with the director of the department of building and development, to revoke the priority status of any permit submitted by the applicant relating to the expelled project.

(3) *Appeals of noncompliant determinations.* An applicant may appeal to the village manager a noncompliant determination made by the Green Building Official pursuant to subsection (c)(2) by filing a written appeal with the village clerk within fifteen (15) days of such determination. The appeal shall state the alleged error or reason for the appeal, and include supporting documentation demonstrating the applicant's intent to comply with the requirements of this article. The village manager may request additional written or oral information from the applicant or Green Building Official in considering the appeal. Within thirty (30) days of the receipt of the appeal, the village manager shall issue a written determination:

- a. Affirming the determination of noncompliance by the Green Building Official, in which case the expulsion shall remain in place;
- b. Finding the applicant has made a good faith effort to pursue LEED certification but is unable to incorporate sufficient green building elements and requirements for causes outside of the reasonable control of the applicant, in which case the expulsion may be lifted and the project reenrolled in the Green Building Initiative; or
- c. Reversing the determination of the Green Building Official, in which case the expulsion shall be lifted and the project shall be reenrolled in the Green Building Initiative.

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The determination of the village manager shall be final.

(d) *Permit fee rebates.* Projects enrolled in the Green Building Initiative shall be eligible for rebates of fees paid for the covered permits in the amounts set forth in this subsection (d). The rebates set forth in this section shall be paid to the applicant upon submission to the Green Building Official of proof of receiving the applicable level of LEED certification from USGBC and a determination by village staff that the project is otherwise in compliance with all other village codes and requirements. All requests for payment of permit rebates under this subsection (d) must be made no later than three (3) years after the village has issued a certificate of occupancy for the property.

(1) The first of each of the following projects to attain a LEED certified rating or higher shall receive a one hundred (100) percent refund of all covered permit fees:

- a. Newly constructed commercial building;
- b. Newly constructed institutional building;
- c. Newly constructed residential building; and
- d. Alteration of an existing building, regardless of the use of the property.

The Green Building Official shall determine the classification of projects for purposes of this subsection (d)(1).

(2) Subsequent projects that are rated LEED Certified shall earn a ten (10) percent rebate for all covered permit fees.

(3) Subsequent projects that are rated LEED Silver shall earn a twenty (20) percent rebate for all covered permit fees.

(4) Subsequent projects that are rated LEED Gold shall earn a thirty (30) percent rebate for all covered permit fees.

(5) Subsequent projects that are rated LEED Platinum shall earn a forty (40) percent rebate for all covered permit fees.

(6) For each project that achieves any of the following credits in the LEED for new construction rating system version 2.2 (or similar credits in another LEED rating system, as determined by the Green Building Official), the project shall receive an additional one (1) percent rebate in covered permit fees for each credit achieved:

- a. Sustainable Sites Credit 6.1: Stormwater Design: Quantity Control;
- b. Sustainable Sites Credit 6.2: Stormwater Design: Quality Control;
- c. Water Efficiency Credit 1.1: Water Efficient Landscaping: Reduce by fifty (50) percent;
- d. Water Efficiency Credit 2: Innovative Wastewater Technologies; and
- e. Water Efficiency Credit 3.1: Water Use Reduction: Twenty (20) percent reduction.

(e) *Recognition.* Each project enrolled in the Green Building Initiative shall receive the following forms of public recognition:

(1) Permission to include a statement of enrollment in the Green Building Initiative on construction signs and marketing materials for the enrolled project; and

(2) A featured mention of the project on a dedicated section of the village website and monthly newsletter promoting the Green Building Initiative;

Provided, however, that any project expelled from the Green Building Initiative shall lose the right to all forms of recognition set forth in this subsection 6-233(e) and shall promptly remove or discontinue the same.

(Ord. No. 08-24, § 2, 5-13-2008)

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ORDINANCE NO. 08-53

BE IT ORDAINED by the President and Board of Trustees of the Village of Northbrook, County of Cook, State of Illinois, THAT:

AN ORDINANCE AMENDING CHAPTER 6 OF THE NORTHBROOK MUNICIPAL CODE (1988) REGARDING CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

be and is hereby adopted as follows:

SECTION 1. BACKGROUND.

Chapter 6, entitled “Building and Construction Regulations,” of the Northbrook Municipal Code (1988), as amended, sets forth regulations governing the erection, repair, alteration, occupation, maintenance and demolition of all buildings and structures in the Village.

The Village has the authority, pursuant to its home rule powers, to adopt ordinances and to promulgate rules and regulations that pertain to its government and affairs and that protect the public health, safety and welfare of its citizens.

It is estimated that construction projects utilize approximately 40 percent of all raw materials such as steel, concrete, and glass consumed nationally, much of which eventually becomes landfill waste. In the United States, construction and demolition activities produce approximately 25 percent of solid waste generated annually.

There are vendors and facilities able to effectively collect for recycling certain materials generated by construction and demolition activity within the Village, thus diverting such materials from landfills.

The Village Board of Trustees desires to establish a construction and demolition debris recycling program to (i) encourage current efforts to recycle construction and demolition debris, (ii) support practices and procedures that promote sustainability, and (iii) encourage the general health and welfare of the Village's residents.

The President and the Board of Trustees have determined that it is in the best interests of the Village and its residents to (1) amend Chapter 6 of the Municipal Code by adding a new article which establishes a Construction and Demolition Debris Recycling Ordinance for construction and demolition activities in the Village, and (2) approve an amendment to Chapter 6 of the Municipal Code and to the Annual Fee Ordinance to provide for the various penalties required under the new Construction and Demolition Debris Recycling Ordinance.

SECTION 2. NEW ARTICLE XVI.

Chapter 6, entitled “Building and Construction Regulations,” of the Northbrook Municipal Code (1988), as amended, shall be and is hereby, amended by adding a new Article XVI, which article shall hereinafter be and read as follows:

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ARTICLE XVI. CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

Sec. 6-241. Purpose.

The Village desires to establish requirements for construction and demolition debris recycling to encourage current recycling efforts and to support practices and procedures that promote sustainability.

Sec. 6-242. Definitions.

The following words, terms and phrases, when used in this Article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Applicant means a person who applies to the village for the applicable permits to undertake any covered project.

Code official means the director of building and development.

Construction means all on-site work done in building new structures to structures from land clearance to completion, including excavation, erection, and the assembly and installation of components and equipment.

Construction and demolition debris or *C&D debris* means non-hazardous construction and demolition debris, including but not limited to cardboard, metal, brick, acoustical tile, concrete, plastic, clean wood, glass, gypsum wallboard, carpet and insulation, and debris processed into a recycled content commodity with an open market value such as wood derived fuel or alternative daily cover material. C&D debris does not include excavated soil or land-clearing debris.

Covered project means any project, unless otherwise exempt under this Article, for construction, renovation, or demolition that meets one or more of the following thresholds:

- (1) Construction of new structures of two thousand (2,000) square feet or more of gross floor area;
- (2) Renovations of ten thousand (10,000) square feet or more of gross floor area; or
- (3) Demolition of one thousand five hundred (1,500) square feet or more of gross floor area.

Demolition means the razing and removal of all or substantially all of a structure, including at least one exterior wall, or the removal of such portions of a principal structure or at least one exterior wall as to make the structure uninhabitable or unsafe for human occupancy.

Department means Department of Building and Development.

Divert and diversion means the recycling of C&D debris which avoids its disposal into a landfill.

Inert debris means those materials which are virtually inert, such as rock, brick, and concrete.

Permit means any building or demolition permit as validly issued by the village.

Recycle means the process of collecting, sorting, cleansing, treating, and reconstituting C&D debris that would otherwise become solid waste, and returning them to the economic mainstream, and may include the salvage and reuse of such debris as part of the covered project.

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Renovation means the improvement, alteration, repair, or reconstruction of an existing structure.

Waste reduction and recycling plan means a written plan for recycling of covered project C&D debris prepared and submitted pursuant to Section 6-246 of this Article in a form prescribed or approved by the code official.

Sec. 6-243. Applicability

(a) This Article applies to all covered projects within the Village of Northbrook except as set forth in Subsection 6-243(b) of this Article.

(b) This Article shall not apply in any of the following circumstances:

1. An immediate or emergency demolition is required to protect the public health, safety or welfare, as determined prior to such demolition by the code official; or
2. An exception is granted pursuant to Section 6-248 of this Article; or
3. A project has been issued a valid building permit or demolition permit prior to January 1, 2009.

Sec. 6-244. Condition of Approval for Building or Demolition Permits.

Compliance with the provisions of this Article is a condition of approval for all building or demolition permits issued for any covered project, unless otherwise exempt.

Sec. 6-245. Diversion Requirements.

C&D debris must be recycled at the following rates, measured by weight:

- (a) For all covered projects for which a building or demolition permit application is submitted between January 1, 2009 and December 31, 2010, at least 50% of C&D debris must be recycled.
- (b) For all covered projects for which a building or demolition permit application is submitted on or after January 1, 2011, at least 75% of C&D debris must be recycled.

Sec. 6-246. Waste Reduction and Recycling Plan.

(a) For covered projects, prior to issuance of a building or demolition permit, the applicant must complete and submit to the Department a waste reduction and recycling plan on a form provided by the Department. The waste reduction and recycling plan must include the following information, and such other information as the Department may require:

1. Identification of materials to be diverted from disposal to recycling;
2. A description of whether and to what extent materials will be separated on-site or co-mingled;
3. The estimated weight of C&D debris, divided between inert debris and other debris;
4. The estimated weight of the inert and other C&D debris that can be diverted;

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5. The estimated weight of the inert and other C&D debris that will be landfilled as solid waste;
6. The identification of the vendors or facilities that will collect or receive the construction or demolition debris, and such information as the code official may require demonstrating that the vendor or facility will recycle all C&D debris received from the covered project;
7. The estimated date on which demolition and/or construction is to commence; and
8. Agreement by the general contractor for the covered project to comply with all of the terms of the waste reduction and recycling plan and this Article.

Where all of the facts cannot be ascertained, the applicant shall provide the best estimate based on all information reasonably available about the covered project.

- (b) No permit will be issued for a covered project unless and until the code official has reviewed and approved the project's waste reduction and recycling plan. A waste reduction and recycling plan shall be approved only if the code official determines that:
 1. The plan contains all of the information required by this Article; and
 2. The plan demonstrates compliance with the requirements of this Article.
- (c) If the code official determines that the waste reduction and recycling plan is incomplete or fails to satisfy the conditions of Subsection 6-246(a) of this Article, the code official may:
 1. Return the waste reduction and recycling plan to the applicant marked "Disapproved," including a statement of reasons for disapproval; or
 2. Return the waste reduction and recycling plan to the applicant marked "Further Explanation Required," including a statement of areas requiring additional information.
- (d) An approved waste reduction and recycling plan may not be amended without the prior written approval of the code official.
- (e) If at any time it becomes apparent to the code official that the contents of an approved plan are no longer accurate, the code official may require that the applicant submit an addendum or revision to the plan with such information as may be required by the code official.

Sec. 6-247. Compliance Report.

- (a) Not less than five (5) business days prior to the scheduled date for the final inspection of a covered project, the applicant shall submit to the Department a compliance report on a form provided by the Department. The compliance report must include the following information, and such other information as the Department may require:
 1. The dates demolition and/or construction actually commenced;
 2. The actual weight of C&D debris, divided between inert debris and other debris;
 3. The actual weight of inert and other C&D debris that was diverted;

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4. A specification of the method used to determine the weight and a certification that the method used was the most accurate, commercially reasonable method available;
 5. Original receipts from all vendors and facilities which collected or received C&D debris, indicating actual weights received by each; and
 6. Certifications from the general contractor and any vendor or facility that handled C&D debris stating the extent to which the project complies with the requirements of this Article.
- (b) Additional reporting requirements may be added at the discretion of the code official.
- (c) Submission of a compliance report and, if applicable, payment of any penalties set forth in this Article is a condition precedent to the following:
1. Issuance of any certificate of occupancy pursuant to Section 6-12 of this Chapter; or
 2. Determination that a lot has been restored pursuant to Section 6-16 of this Chapter.

Sec. 6-248. Exceptions.

- (a) Applicants seeking partial or complete exception granting relief from the requirements of this Article must file with the Department an application on a form provided by the Department. The application must include, in addition to such other information as the Department may require, a statement from a licensed professional engineer certifying that compliance with this Article is impracticable due to exceptional or extraordinary circumstances or conditions applicable to the covered project.
- (b) The code official may grant the exception only if the code official finds all of the following:
1. There are exceptional or extraordinary circumstances or conditions applicable to the covered project that do not apply generally to similar covered projects and that make compliance with this Article impracticable;
 2. Granting the exception will not constitute a grant of special privilege inconsistent with limitations imposed on similar covered projects; and
 3. Cost to the applicant of strict compliance with this Article is not the primary reason for granting the exception.
- (c) The code official may deny applications for exceptions made pursuant to this Section 6-248.

Sec. 6-249. Inspections, Inquiries and Audits.

The code official may make any and all inspections, inquiries, and audits as necessary to determine compliance with this Article.

Sec. 6-250. Enforcement and Penalties

In addition to the general penalties set forth in Section 1-13 of the Village Code, applicants who fail to satisfy the diversion requirement established at Section 6-245 of this Article are subject to a penalty set forth in the annual fee ordinance.

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Sec. 6-251. Appeals.

Any person or entity aggrieved by any decision by the code official under the provisions of this Article with respect to approving or to denying a waste reduction and recycling plan, or to granting or denying an application for an exception from compliance with this Article may file an appeal pursuant to Section 6-14 of the Village Code.

Sec. 6-252 - ___ Reserved.

SECTION 3. AMENDMENT TO THE ANNUAL FEE ORDINANCE.

Section 5, entitled “Schedule of Fees, Charges and Rates,” of the Annual Fee Ordinance shall be, and is hereby, amended to add the following text corresponding to Section 6-245 and Section 6-250 of the Village Code:

Sec. 6-250 For failure to satisfy requirements of Section 6-245

(a) for projects involving the construction, demolition, or renovation of less than 10,000 square feet of gross floor area, \$500 for each percentage point of difference between the amount of construction and demolition debris required to be recycled or reused and the amount actually recycled or reused; or

(b) for projects involving the construction, demolition, or renovation of 10,000 square feet or more of gross floor area, \$1,000 for each percentage point of difference between the amount of construction and demolition debris required to be recycled or reused and the amount actually recycled or reused.

SECTION 4. EFFECTIVE DATE.

This Ordinance shall take effect after its passage, approval and publication in pamphlet form in the manner provided by law.

APPROVED this 26th day of August, 2008.

AYES: (5) Trustees Frum, Karagianis, Buehler, Heller, and Kole

NAYS: (0)

ABSENT: (1) Trustee Scolaro

ABSTAIN: (0)

/s/Eugene Marks
Village President

ATTEST:

/s/Debra J. Ford
Village Clerk

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ORDINANCE NO. 08-53

AN ORDINANCE AMENDING CHAPTER 6
OF THE NORTHBROOK MUNICIPAL CODE (1988) REGARDING
CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING

Passed by the Board of Trustees, August 26, 2008

Printed and Published, August 27, 2008

Printed and Published in Pamphlet Form
by Authority of the
President and Board of Trustees

VILLAGE OF NORTHBROOK
COOK COUNTY, ILLINOIS

I hereby certify that this document
was properly published on the date
stated above.

/s/Debra J. Ford
Village Clerk

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JPH: 11/17/08 New Business
*12/1/08

THIS ORDINANCE MAY BE CITED AS VILLAGE ORDINANCE NUMBER 08-12-C-3652

AN ORDINANCE ESTABLISHING AN ENVIRONMENTAL POLICY FOR THE VILLAGE OF SKOKIE

1 **WHEREAS**, population growth, economic expansion, urbanization and ever-
2 increasing demand for energy are stressing the earth's resources and challenging our ability
3 to lead healthy, clean and prosperous lives; and
4

5 **WHEREAS**, the Village is a small part of the seven-county Northeastern Illinois
6 Metropolitan Area, comprised of approximately 8.5 million people, and hundreds of units of
7 local government, however, it is important that the Village's response to environmental
8 concerns and desire to create a sustainable lifestyle for its residents not await regional,
9 national and international policies; and
10

11 **WHEREAS**, the actions of municipalities are interrelated and to a degree are
12 interdependent upon other local, state, and federal government agencies, but municipalities
13 should accept the challenge to create sustainable economies, environment, land
14 development and communities; and
15

16 **WHEREAS**, the climate change issue must be prudently dealt with by governments
17 at all levels and by the citizens they represent. In the latest report from the United Nations
18 Intergovernmental Panel on Climate Change (IPCC), the world's scientist have concluded
19 that the changes in the atmosphere, the oceans, the glaciers and ice caps now show
20 unequivocally that the world is warming due to human activities. This report, written by the
21 world's leading climate change scientists and experts, and based on the most up-to-date
22 peer reviewed scientific literature available worldwide, confirms that emissions of carbon
23 dioxide and other greenhouse gases produced by human activity have caused the global
24 temperature to rise. Global warming will cause serious problems for the political, social and
25 economic well-being of all who live on Earth; and
26

27 **WHEREAS**, the Village of Skokie (the "Village") finds it desirable to adopt policies,
28 goals, and objectives that will make it a more sustainable and environmentally sensitive
29 municipality, the purpose of which is to become a "Sustainable Community." A Sustainable
30 Community means that: (i) the Village's residents, property owners and businesses are
31 achieving economic prosperity while protecting the planet's natural systems; and (ii) the
32 needs of our community are met without compromising the ability of future generations to
33 meet their own needs; and
34

35 **WHEREAS**, these policies, goals, and objectives initially target Village activities and
36 decisions, however, the Village needs to contemplate actions to encourage similar actions
37 by residents, property owners and businesses to fulfill the purpose of becoming a
38 Sustainable Community; and
39

Village of Glencoe – Sustainability Study

1 WHEREAS, on December 3, 2007, the Mayor and Board of Trustees appointed six
2 people to serve as members of the Village's Sustainable Environmental Advisory
3 Commission ("SEAC"); and
4

5 WHEREAS, the SEAC has met throughout 2008, conducting informational and
6 educational meetings and will continue public meetings to help identify those elements that
7 the Village could have direct control or significant influence over and to recommend
8 movement in the direction of sustainability; and
9

10 WHEREAS, at a public meeting on November 6, 2008, SEAC voted unanimously to
11 recommend to the Mayor and Board of Trustees that the first "Environmental Best Practices
12 Policy" be adopted into the Skokie Village Code, as stated below; and
13

14 WHEREAS, at a public meeting on November 17, 2008, SEAC recommended that
15 the Mayor and Board of Trustees take the first step toward achieving a Sustainable Skokie
16 by adopting an "Environmental Best Practices Policy" that takes into consideration
17 encouraging public and private entities to become better stewards of the environment while
18 continuing to improve the overall quality of life; and

19 WHEREAS, the Mayor and Board of Trustees concurred in the recommendation of
20 SEAC;

21 ***NOW, THEREFORE, BE IT ORDAINED*** by the Mayor and Board of Trustees of the
22 Village of Skokie, Cook County, Illinois:

23 **Section 1:** That Chapter 2 of the Skokie Village Code be and the same is hereby
24 amended by adding Article XIII, Sections 2-1200 through 2-1206, in the manner hereinafter
25 indicated. The new material is **highlighted in bold**.

26 **Article XIII. ENVIRONMENTAL POLICY**

27 **Sec. 2-1200**

28 **It is the policy of the Village of Skokie to work towards becoming a "Sustainable**
29 **Community."**

30 **Sec. 2-1201**

31 **A strategy, that includes an action plan, shall be developed to ensure steady**
32 **progress towards becoming a Sustainable Community. A successful strategy and**
33 **action plan must be comprehensive across the Village governmental activities, and**
34 **eventually embrace the conduct and behaviors of residents, property owners and**
35 **businesses.**

36 **Sec. 2-1202**

37 **The Village Manager shall designate an employee to perform the functions of an**
38 **"Environmental Officer," whose duties shall include coordinating compliance with**
39 **the Environmental Best Practices Policy, as stated in Section 2-1204 of this Article,**

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1 and assist with environmental analysis or provision of information in the decision-
2 making process. The Environmental Officer may utilize the service of assistants and
3 shall have such other duties as assigned by the Village Manager.

4 5 **Sec. 2-1203**

6
7 All decisions made by the corporate authorities and executive staff (the “Decision
8 Makers”) shall examine the outcome in relation to the sustainable and environmental
9 policies, goals and objectives (the “Environmental Best Practices Policy”). This
10 examination shall consider the economical feasibility of such outcome utilizing
11 alternative approaches before committing resources. The Environmental Best
12 Practices Policy shall apply to decisions relating to: (i) Village government
13 operations and expenditures; and (ii) efforts or actions to encourage residents,
14 property owners and businesses, including developers and contractors, to adhere to
15 the goals and objectives stated.

16 17 **Sec. 2-1204**

18
19 The Environmental Best Practices Policy shall develop over time. Initially, the Policy
20 requires that Decision Makers take into consideration the following goals and
21 objectives:

- 22 a. Limit the amount of water, fuels, energy, minerals, wood fiber, paper
23 products, plastics, pesticides, and chemicals used by the Village to the
24 minimum amount necessary to adequately deliver products and
25 services to residents, property owners and businesses. This may be
26 achieved by various techniques including, but not limited to,
27 maximizing efficiencies or use of alternative resources.
- 28 b. Reduce the production and release of pollution through a combination
29 of technology and product or process substitution.
- 30 c. Avoid adverse environmental consequences by protecting air and water
31 quality, water table, natural conditions, wildlife habitat and physical
32 environment.
- 33 d. Evaluate the true cost of goods or products by factoring the useful life,
34 operation and maintenance costs, and ultimate disposal costs for
35 comparison purposes. When cost considerations are nearly equal,
36 preference to contractors or vendors that use energy efficient or reused
37 or recycled products should be a priority.
- 38 e. Recycle and reuse as much of the Village’s waste stream as is
39 economically and technically feasible.
- 40 f. Explore and encourage water treatment methods that treat storm water
41 as an asset for reuse and to recharge the ground water supply.
- 42 g. Associate with coalitions of governments and other organizations and
43 entities to achieve the goals and objective.
- 44
45

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Sec. 2-1205

The Village shall undertake an on-going Environmental Education and Outreach Program designed to inform residents, property owners and businesses that everyday individual actions do matter. The Program shall, amongst other things: (a) provide useful and actionable information; (b) explore sustainable opportunities and assist residents in living a more sustainable lifestyle; (c) improve the public’s understanding of recycling opportunities; (d) encourage residents, and others, to present their ideas and suggestions to the Sustainable Environmental Advisory Commission or the Village; and (e) establish a series of awards to be presented to residents, property owners or businesses for actions consistent with the goals and objectives stated in Section 2-1204 of this Article.

Section 2: That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

ADOPTED this 1st day of December, 2008.

Ayes: 7 (Bromberg, Gelder, McCabe, Perille,
Roberts, Sutker, Van Dusen)
Nays: 0
Absent: 0

Village Clerk

Attested and filed in my office
this 2nd day of December, 2008;
and published in pamphlet form
according to law from December
2nd, 2008 to December 12th, 2008.

Approved by me this 1st day of
December, 2008.

Mayor, Village of Skokie

Village Clerk

Village of Glencoe – Sustainability Study

ORDINANCE NO. MC-3-2008

**AN ORDINANCE
AMENDING CHAPTER 15.28 OF THE WINNETKA VILLAGE CODE
TO ESTABLISH AN ENVIRONMENTAL AND FORESTRY COMMISSION**

WHEREAS, the Village of Winnetka is a home rule municipality in accordance with Article VII, Section 6 of the Constitution of the State of Illinois of 1970 and, except as limited by that provision, has the authority to exercise any power and perform any function pertaining to the government and affairs of the Village, including the power to regulate for the protection of the public health, safety, morals and welfare; and

WHEREAS, the Village of Winnetka operates a municipal electric utility; and

WHEREAS, the eastern border of the Village is formed by the shore of Lake Michigan and the western border of the Village of Winnetka is formed primarily by the Skokie Lagoons Forest Preserve; and

WHEREAS, the Village enjoys a substantial and mature tree population that has led to the Village's regularly being designated as a "Tree City USA;" and

WHEREAS, Lake Michigan provides both potable water and a source of recreation for the residents of the Village; and

WHEREAS, the Council of the Village of Winnetka ("Village Council") find that providing for the study and protection of the Village's environmental resources is a matter pertaining to the protection of the health, safety and welfare; and

WHEREAS, the Village Council desire to expand the scope of the Winnetka Forestry Commission's actions to include matters pertaining to the study and protection of the local environment and the conservation of energy.

NOW, THEREFORE, the Council of the Village of Winnetka do ordain as follows:

SECTION 1: The foregoing recitals are hereby incorporated as the findings of the Council of the Village of Winnetka, as if fully set forth herein.

SECTION 2: Chapter, "Forestry Commission," of Title 3 of the Winnetka Village Code, "Boards and Commissions," is hereby amended in its entirety to provide as follows:

June 3, 2008

MC-3-2008

Village of Glencoe – Sustainability Study

Chapter 3.04

ENVIRONMENTAL AND FORESTRY COMMISSION

Sections:

3.04.010	Creation; Members; Compensation
3.04.020	Officers
3.04.030	Vacancies
3.04.040	Meetings; <u>Vote</u> ; Quorum
3.04.050	Powers and Duties

Section 3.04.010 Creation; Members; Compensation

A. Creation of Commission. There is created an Environmental and Village Forestry Commission, which shall have such powers and perform such duties as provided in this chapter.

B. Members; Appointment. The Commission shall consist of ~~seven-ten~~ members, eight of whom shall be appointed by the Village President, with the advice and consent of the Trustees, and two ex officio members who shall be appointed as provided in subsection D, below. One member shall be a member of the Plan Commission and one member shall be a member of the Design Review Board. Each member of the Commission shall be appointed by the Village President, with the advice and consent of the Trustees.

C. Appointed Members; Qualifications; Term of Office.

1. Qualifications. All appointed members of the Commission shall be residents of the Village. In addition, one of the appointed members shall be a member of the Plan Commission, one appointed member shall be a member of the Design Review Board, and one appointed member shall be a Winnetka resident who is a high school junior or senior, or an undergraduate college student. All members of the Commission shall have experience, training or a demonstrable interest in such areas as environmental science, forestry, ecology, energy conservation, tree preservation, education, pollution control, engineering, science and public health.

2. Term of Office. Subject to the additional limitations set forth in the following paragraph 3, Each each appointed member other than the student appointee shall serve for a term of three years and until a successor is appointed and qualified. The terms of the appointed members shall be staggered so that the term of two appointed members expire in one year, the term of two other appointed members expire the following year and the term of the remaining three appointed members expire the next following year. No appointed member other than the student appointee shall serve more than two full terms consecutively.

3. Term of Representative Members. Notwithstanding the foregoing, the The members of the Commission who are the representatives of the Plan Commission and of the Design Review Board (the "representative members") shall not serve on the Environmental and Forestry Commission beyond the termination of their respective memberships on the Plan Commission or Design Review Board, whether by expiration of that term, resignation or some other cause.

4. Student Member. The student member shall be appointed in September of each year and shall serve through the month of August of the following year, and until a successor is appointed and qualified. The student member may serve consecutive terms, without limitation, provided the student remains enrolled in a high school or college. For purposes of this section, if a student who is appointed while he or she is enrolled as a full time student in high school or college, the student's enrollment shall be presumed to continue through the summer immediately following the academic year of appointment.

Village of Glencoe – Sustainability Study

~~regardless of whether the student enrolls for summer studies or has graduated. No person shall serve more than two full terms consecutively.~~

~~D. Ex Officio Members. One ex officio member of the Commission shall be a Village Trustee and shall be designated by the Village President. One ex officio member shall be a member of the Winnetka Park District Board and shall be designated by that Board, according to its own procedures.~~

~~E. No Compensation. ~~Members~~ All members of the Commission shall serve without compensation for those services.~~

(MC-4-2005, Amended, 09/06/2005)

Section 3.04.020 Officers

~~The Village President shall designate ~~One one~~ of the members of the Commission shall be designated by to serve as Chairperson the Village President to be Chair of the Commission and shall hold office as Chair until a successor is appointed. The Chairperson shall hold that office until the Village President designates another member to be Chairperson. The Village Manager shall appoint one or more employees of the Public Works Department and/or Water and Electric Department to serve as Secretary to the Commission.~~

(MC-4-2005, Amended, 09/06/2005)

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Section 3.04.030 Vacancies

Any vacancy occurring shall be filled for the remainder of the unexpired term in the same manner as provided for the original appointment of a member.

(MC-4-2005, Amended, 09/06/2005)

Section 3.04.040 Meetings; Vote; Quorum

~~A. Meeting. Meetings of the Commission shall be held ~~quarter annually~~ once each month or at the call of the Chair. All meetings shall be open to the public and shall be conducted in accordance with the Open Meetings Act and Chapter 3.02 of this code. The Commission shall keep minutes of its proceedings and shall keep records of all other official actions.~~

(MC-8-2007, Amended, 06/05/2007)

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~~B. Vote. The student member and the two ex officio members of the Commission shall not be entitled to vote. All other members of the Commission shall be voting members.~~

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~~C. Quorum. A majority of the voting members shall constitute a quorum.~~

Section 3.04.050 Powers and Duties

The Commission shall have the following powers and duties:

A. To advise the Village Council on matters relating to urban forestry, including the enhancement and preservation of trees in the Village, and methods to mitigate threats to trees in the Village such as Dutch elm disease and the emerald ash borer;

B. To advise the Village Council on matters relating to the protection of the environment and the conservation of energy.

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C. To advise the Village Council on possible amendments to this Village code regarding environmental and forestry matters;

C.—D. To develop and recommend policy concerning the selection, planting, maintenance and removal of trees on Village-owned property;

D.—E. To consider and determine the propriety of removing trees on Village-owned property, except during emergencies or when a tree poses an immediate threat to the public health, safety or welfare;

E.—F. To assist the Village and its officials in developing and recommending policies relating to the protection of the environment and the protection, maintenance and improvement of the Village's tree population, including recommendations pertaining to the Tree Preservation Code set forth in Chapter 15.28 of this Village code;

F.—G. To assist the Village and its officials in disseminating information about protection of the environment, the conservation of energy, and the protection, maintenance and improvement of the Village's tree population;

G.—H. To apply annually for Tree City U.S.A. designation or other awards and incentives recognizing the Village or any portion of the Village for its trees or forestry;

H.—I. To review and make recommendations to Village staff on all Village plans for streets, utility, and other public improvement projects that impact public trees;

I.—J. To provide advice and mediation in disputes concerning the maintenance or removal of trees in the Village when requested by all parties to a dispute;

J.—K. To assist the Plan Commission in reviewing and updating the Comprehensive Plan on matters pertaining to the protection of the environment and the protection, maintenance and improvement of the Village's tree population, including updating Chapter XIV, "Street Tree Planting," of the Winnetka Comprehensive Plan;

K.—L. To determine, at the request of the Director of Public Works, whether an application for a permit to remove a tree under Section 15.28.040 (B)(6) meets the requirement of that subsection that the removal of the tree will avoid or alleviate an economic hardship or hardship of another nature on the property or residence; and

L.—M. To hear and decide appeals from the action of the Director of Public Works denying a permit to remove a tree pursuant to Section 15.28.040 of this Village code, in accordance with the procedures set out in Section 15.28.090. (Ord. MC-228-99 § 4 (part), 1999: prior code § 6.09)

N. To engage in such other activities, studies and educational programs related to environmental protection, energy conservation, tree preservation and urban forestry as may be requested by the Village President or the Village Council from time to time.

O. To make recommendations to the Village Council on programs and methods for increasing public awareness of environmental and energy issues.

P. To make policy recommendations to the Village Council to preserve, conserve, enhance and protect the quality of our land, air and water, including issues related to pollution and recycling.

Q. To make policy recommendations to improve public and private energy stewardship within the Village, including strategies for energy conservation, reduced energy consumption, the development of renewable energy sources.

R. To make policy recommendations regarding the adoption of "green" building strategies for public and private development and redevelopment, such as the Leadership in Energy and Environmental Design Program developed by the U.S. Green Building Council.

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~~S. To act as a liaison between the Village and other local governmental, public and private agencies, such as the Winnetka Park District, area schools, Great Lakes Commission and Chicago Wilderness to learn how they deal with matters of interest to the Environmental and Forestry Commission and to share information pertaining to those matters.~~

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SECTION 3: Paragraph 9 of Subsection D of Section 15.28.010, “Policy and Purpose; Rules of Construction; Definitions,” of Chapter 15.28, “Tree Enhancement and Preservation,” of Title 15 of the Winnetka Village Code, “Buildings and Construction,” is hereby amended to provide as follows:

9. “Master Street Planting Plan” means the plan developed by the Director and approved by the ~~Forestry Commission~~Environmental and Forestry Commission, as amended from time to time, for use in identifying tree species suitable for planting at various locations throughout the Village.

SECTION 4: Subsection B, “Tree Removal,” of Section 15.28.080, “Authority of Director,” of Chapter 15.28, “Tree Enhancement and Preservation,” of Title 15 of the Winnetka Village Code, “Buildings and Construction,” is hereby amended to provide as follows:

B. Tree Removal. The Director shall have full authority and discretion to make all decisions pertaining to the removal of trees, as provided in this chapter. Notwithstanding the foregoing, the Director shall also have the authority, in the exercise of his discretion, to request that the ~~Forestry Commission~~Environmental and Forestry Commission review any application for removal of a protected tree under Section 15.28.040 (B)(6) of this chapter.

SECTION 5: Section 15.28.090, “Proceedings before Forestry Commission,” of Chapter 15.28, “Tree Enhancement and Preservation,” of Title 15 of the Winnetka Village Code, “Buildings and Construction,” is hereby amended to provide as follows:

Section 15.28.090 Proceedings before ~~Forestry Commission~~Environment and Forestry Commission

A. Jurisdiction of ~~Forestry Commission~~Environmental and Forestry Commission. The ~~Forestry Commission~~Environmental and Forestry Commission created in Section 3.04.010 of this code shall have the authority and jurisdiction to consider the following matters:

1. Tree removal applications. At the request of the Director, the Commission shall review applications for a permit to remove a tree under Section 15.28.040 (B)(6) of this chapter and shall determine if the application meets the requirements of that subsection.

2. Appeals. The Commission shall hear and decide appeals from the action of the Director denying a permit to remove a tree pursuant to Section 15.28.040 of this chapter.

B. ~~Forestry Commission~~Environmental and Forestry Commission Procedures. The application review and appeal shall be governed by the following procedures:

1. In reviewing applications for a permit to remove a tree under Section 15.28.040 (B)(6) of this chapter, the Commission shall determine if the application meets the requirements of that subsection. The Commission shall respond to the Director’s request within twenty-one (21) days after

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it receives the request. A denial of a permit by the Director following such review by the Commission may be appealed as provided in the following paragraph 2.

2. An applicant shall initiate an appeal by filing a written notice of appeal with the Director and the Commission within ten (10) days following the Director's denial of a tree removal permit pursuant to Section 15.28.040 of this chapter. The notice of appeal shall specify the grounds for the appeal and state the relief sought. The Director shall transmit to the Commission all papers constituting the record upon which the decision or action appealed from was based.

3. The Commission shall schedule a hearing of the appeal within twenty-one (21) days following receipt of the notice. At least fourteen (14) days' notice of the hearing shall be given to the person taking the appeal. The time for conducting the hearing may be extended with the agreement of the person taking the appeal. Any party may appear at the hearing in person, by agent or by attorney.

4. The Commission shall announce its decision within ten (10) days following the conclusion of the hearing and may reverse or affirm the action of the Director.

5. In the event the Commission affirms the denial of the permit, the applicant may, within seven days from the date of the Commission's decision, serve a written notice upon the Commission and the Village Clerk of the intent of the applicant to appeal the ruling of the Commission to the Village Council. Within twenty-one (21) days following the service of the notice of intent, the Commission and the applicant shall provide all documentation relevant to the determinations below to the Village Clerk. The Village Council may, without further hearing, decide the appeal based upon the record presented. The decision of the Village Council shall be made within thirty (30) days following receipt of the records and its decision shall be final. (Prior code § 10.07)

SECTION 6: This Ordinance is passed by the Council of the Village of Winnetka in the exercise of its home rule powers pursuant to Section 6 of Article VII of the Illinois Constitution of 1970.

SECTION 7: This Ordinance shall take effect immediately upon its passage, approval and posting as provided by law.

PASSED this 3rd day of June, 2008, pursuant to the following roll call vote:

AYES: _____

NAYS: _____

ABSENT: _____

APPROVED this 3rd day of June, 2008.

Signed:

Acting Village President

Countersigned:

Village Clerk

June 3, 2008

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Introduced: May 20, 2008

Posted: May 21, 2008

Passed and Approved: June 3, 2008

Posted: June 4, 2008

June 3, 2008

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MC-3-2008

Village of Glencoe – Sustainability Study

MEMORANDUM

TO: Winnetka Environmental and Forestry Commission
DATE: November 12, 2008
SUBJECT: **LIST OF VILLAGE'S "GREEN" INITIATIVES**

The following lists outline, by department, current and possible future "green" programs or activities that have been or could be undertaken by the Village of Winnetka in order to further and promote the goals of reduced energy use, conservation of natural resources, pollution prevention, and reduced emission of greenhouse gasses.

Administration/Village-Wide

The meter reader vehicles are LEV cars.

Unused office paper, newspapers, etc. are recycled.

We evaluate energy consumption – energy star ratings for computer and office equipment when making new purchases.

The Village continues to increase its electronic storage capabilities thereby limiting paper usage (i.e. filing the Council packets on the V drive allows users to reference those documents electronically versus printing a copy for all users).

All computer processing units are Energy Star compliant.

All computer monitors are energy efficient LCD.

Metropolitan Mayors' Greenest Region Compact. In February, 2008, the Village joined in the Greenest Region Compact, developed by the Metropolitan Mayors Caucus. The Compact is a voluntary initiative to improve the region's air, water and land, reduce greenhouse gases, minimize waste, and reduce energy consumption through a series of environmental actions.

Fire Department

Our motor fleet (diesel vehicles) all utilize B20 premium diesel (80% of fuel is diesel and 20% is bio fuels)

Our last 2 vehicle purchases are environmentally friendly

- o Ambulance is listed as a "clean fuel fleet vehicle"
- o Replacement staff car is a E85 "ULEV" (ultra low emissions vehicle)

Have installed motion detectors in all 1st floor bathrooms so that the lights do not stay on all the time.

We are reviewing where we can replace incandescent bulbs with fluorescent.

Village of Glencoe – Sustainability Study

Police Department

Current Programs:

Vehicles

As the current Patrol Fleet vehicles reach replacement mileage, they are being replaced with 8-cylinder cars that are equipped with cylinder de-activators that allow the cars to operate on 4 cylinders during low-speed cruising and patrol activities.

As non-enforcement Police Fleet vehicles reach replacement mileage, they are being replaced with more fuel efficient 6-cylinder cars.

As current emergency and auxiliary lighting on squad cars becomes unserviceable, it is being replaced with energy efficient LED lighting that draws less current, thus saving fuel and battery life.

Alternate vehicles, such as the ATV, motorcycle, and bicycles have been employed for various patrol activities for the past five years, when appropriate. This results in a net fuel savings (and promotes officer health), and reduces pollutants released into the environment.

Officers have been directed to reduce vehicle idling when not necessary for the operation of vehicles or installed electronic equipment.

Equipment and Supplies

The Police Department purchases low-lead firearms training ammunition, which results in no airborne lead particulates. In addition, all spent lead and brass casings are retrieved and re-cycled.

Interior Building Environment

The Firearms Range is equipped with an environmentally friendly HEPA filtering system which filters out all contaminants before exhausting.

Building lighting is energy efficient fluorescent where possible.

The building, in general, is energy efficient, with thermopane windows, weather insulated, and has an energy efficient HVAC system.

Interior lighting in unoccupied areas of the building is turned off as long as safety is not compromised.

Possibilities for the Future:

Within the next three years, the Police Department plans a roof rehabilitation that will utilize a white reflective low solar gain material that will reduce the amount of energy consumed to cool the building.

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Public Works Department

Current Programs:

LED Traffic Signal Conversion. Recently, the Village converted all of its traffic signal installations from incandescent bulbs to Light Emitting Diode (LED) bulbs. Although they are more expensive to install initially, LED's burn brighter, last longer, and use significantly less energy. By converting these installations, the Village uses roughly 85% less energy to power its traffic signals. This program was partially funded by a grant from the Illinois Clean Energy Community Foundation.

B20 Biodiesel. In 2001, the Village converted its diesel fuel supply from 100% petroleum-based diesel to B20 Biodiesel, which is a blend of 80% petroleum diesel and 20% diesel made from soybean oil and used cooking grease. Biodiesel is renewable, reduces petroleum use, and reduces emissions of certain gasses and particulates. On the other hand, Biodiesel has been associated with small (3-4%) increases in NOx, a primary component of ozone, as compared to 100% petroleum-based diesel.

Hybrid Superintendent Vehicle. Last year, the Public Works Department purchased a gas-electric hybrid Ford Escape to replace a Ford Expedition used by the Operations Superintendent. The hybrid vehicle features improved fuel economy (28 mpg) and reduced emissions.

LEV/FFV Fleet purchases. The Village has for the last 8 years been certified with the Illinois EPA as a Clean-Fuel Fleet, meaning that its fleet purchases have complied with the Clean Fuel Fleet Program requirements. These requirements are 70% lower than the emission standards for general production vehicles.

Stormwater runoff Best Management Practices (BMP's). The Village has been regulating drainage in conjunction with building construction projects for a number of years, however in the last three or four years, the Village has not only managed these projects to minimize runoff rates, but also to minimize pollutant and sediment discharge. The Village has been requiring erosion and sediment control plans, and has been requiring stormwater discharge to take advantage of natural filtering through grassy areas, where feasible. These activities are intended to reduce sediment and pollutant loads in local waterways.

Recycling/Composting. The Village has a very effective curbside recycling and yard waste composting program, reducing the amount of refuse that is landfilled. Commercial district recycling will be added to the program in the next year.

Tree City/Tree Protection. The Village has very stringent tree protection ordinances, and has been a "Tree City" for 15 years running. These programs conserve the Village's trees, which is beneficial to the environment.

Salt Conservation. The Village has for many years worked diligently to minimize the amount of de-icing salts used on our roadways. It is the Village's policy not to

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salt residential streets except at stop signs, hills, and curves, or in extreme icing conditions. The Village has also been an early advocate of anti-icing policies, under which salt brine (rock salt mixed with water) is pre-applied to streets in advance of a storm. This brining procedure reduces salt use by providing better, more uniform coverage of pavements than spreading rock salt, and also eliminates the problem of salt “bounce”, where rock salt bounces or is kicked off the roadway onto adjacent lawns. These policies have reduced the amount of salt used by the Village by as much as 30% from the early 1990’s.

Reuse-A-Shoe. The Village Yards is a drop-off location for Reuse-A-Shoe, a program sponsored by Nike, in which used athletic shoes are collected and recycled into a rubberized material used for running tracks and other athletic court surfaces.

Mercury Thermometer Collection. The Village Yards has been a location for collecting mercury thermometers for exchange with non-mercury alternatives. This program removes mercury, an environmentally persistent hazardous waste, from the waste stream for recycling.

Electronics recycling. The Village has served as a drop-off location for computer and electronics recycling events, by which computers and home electronics are recycled rather than disposed of in landfills. A small electronics recycling program is in place.

Engine idle reduction program. There are certain activities and locations where engine idling is prevalent, both among Village operations and among the general population. Village employees are provided with formal policy guidance to minimize engine idling.

Possibilities for the Future:

Leadership in Energy and Environmental Design (LEED) Certification for Village Hall. Village staff has recently commissioned a needs analysis for upgrades and modernization of the Village Hall. This project entails improvements to the existing heating and cooling systems, restoration of windows, improvements to the layout of the Finance Department, and other improvements. As part of the improvement program, the design contract could include an analysis and recommendations for LEED certification for the Village Hall.

LEED Evaluation for Village Yards. The Village recently completed a renovation of the Village Yards. The Village could commission a LEED analysis of the Yard Facility to determine what, if any, improvements could be made to the yards to reduce energy use and obtain LEED certification.

Expand Hybrid Vehicle Fleet. The experiment with the hybrid Ford Escape has thus far resulted in increased fuel economy and reduced emissions when compared to the previous vehicle. This experiment could be extended to include additional vehicles in the Department. It should be noted that the additional purchase cost of these vehicles will probably not be offset by reduced fuel expenses, unless fuel prices increase significantly. The benefit of this program would not be economic, but would be in reduced dependence on petroleum, and reduced emissions.

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Battery recycling. There are a number of facilities that recycle batteries. The Village could provide a recycling drop-off service at one or more municipal buildings, for certain types of (rechargeable) batteries.

Porous pavement/rain gardens. New pavements composed of interlocking larger aggregates have been developed that allow rainwater to percolate through the pavement into the soil rather than simply become runoff. The Village could implement this technology in some of its parking areas in order to reduce stormwater runoff.

Alternate hours and activities on ozone action days. Several times a year, the Chicago area is placed under ozone action days. An ozone action day is declared when air quality is poor, as a result of hydrocarbons and nitrogen oxides being changed by their interaction with sunlight and causing ozone, a harmful compound that affects breathing. There are several activities that the EPA recommends avoiding or postponing on ozone action days. Among these activities engaged in by the Village are vehicle refueling, lawn-mowing, asphalt paving, and vehicle operations. The Village could consider modifying its operations in ways that reduce these activities on ozone action days.

Concrete Pavements. There has been some research that has demonstrated that the use of concrete pavements, which are lighter colored than asphalt pavements, can reduce the urban heat island effect. These pavements are significantly more expensive and disruptive to construct initially, and further research is needed to determine if the energy expended in constructing these pavements is more than the energy expended to construct asphalt pavements.

Water & Electric Department

Current Programs:

Street Lights Color corrected high pressure sodium (HPS) street lights have replaced previously existing street lights in most street light applications. HPS lamps have significantly reduced energy consumption used in the street lights. For example, 70 watt HPS replaced a 200 watt incandescent, 150 watt HPS replaced a 250 watt mercury vapor, and 225 watt HPS replaced 400 watt mercury vapor.

Distribution Line Transformers New transformers installed on the Village's electric system far exceed the voluntary efficiency requirements of the National Electrical Manufacturers Association (NEMA) TP-1 Standard, "Guide for Determining Energy Efficiency for Distribution Transformers" and meet the proposed 2010 Department of Energy high efficiency standard. The increased efficiency of the transformers reduces the electrical system losses.

Variable Frequency Drive (VFD) Pumps Over time, seven of the ten large conventional single speed pumps used in the Village's water system have been replaced with VFD pumps. These pumps provide increased operating flexibility and efficiency by allowing the pump to operate at maximum efficiency at different output

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levels. The older single speed pumps only operate at full speed and are controlled by dampening water flow with valves.

Exceed “Clean Fuel Fleet” Standards. The Clean Fuel Fleet Program (CFFP) is a requirement of the Clean Air Act Amendments of 1990 for certain areas of the country (i.e. Cook County) not meeting federal air quality standards. Vehicles used in the Water & Electric Department exceed this requirement. In addition, line trucks use biodiesel fuel (80% diesel fuel, 20% bio fuel)

Interior Building Environments

Fluorescent Lighting Energy efficient fluorescent lighting has been incorporated into remodeling projects of facilities used by the Water & Electric Department. T-34 fluorescents were used in the construction of the Yards facility, remodel of the Yards high bay, and also in the Village Hall remodel.

Insulation Increased energy efficiency of structures by adding or improving insulation level. Re-insulated existing roof at the Water & Electric garage and warehouse. Northfield substation control house was insulated to reduce heat loss.

Electric Generation

Coal: Village of Winnetka discontinued using coal as a fuel in 1990. Boilers were converted to dual fuel (natural gas/diesel fuel). This reduced emissions from plant when operated for generation.

Turbine #4 Overhaul: By reconditioning turbine blades and diaphragms in first stage of turbine, the turbines efficiency and output were increased (approx. 5%).

Intake Maintenance. Historically, we have used dredged material removed from the intake and discharge ponds for beach reclamation. The latest being in the spring of 2006.

Recycling. Waste oil, scrap metals, and fluorescent light bulbs are routinely recycled.

Chlorine Dissipation. Outdoor settling basins were covered for security concerns and to reduce chlorine dissipation, significantly reducing sunlight “burn off” of chlorine.

Compact Fluorescent Lights. Through participation in the Metropolitan Mayors Caucus’ Greenest Region Compact, the Village has received 3,100 CFL bulbs to distribute; each customer with a Winnetka electric service account is eligible to receive one. The CFL’s are available for pick up at the Village Hall Cashier’s counter on a first-come first-served basis. CFL’s use up to 75 percent less energy than incandescent bulbs. Residents recycling a burned out CFL at the Village Yards can pick up another free CFL. The Village also accepts CFL’s for recycling.

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Possibilities for the Future:

Hybrid Vehicles Investigate opportunity to use hybrid electric vehicles when replacing existing vehicles in the future. Recently, the utility industry has advanced development of hybrid bucket trucks.

Lighting Additional opportunities to install fluorescents or compact fluorescent lighting remain at the Water & Electric Plant. As fixtures are replaced, Staff will continue to incorporate energy efficient lighting designs. In addition, there are opportunities to install motion sensors to insure lights are on only when the work area is occupied.

Solar heating Investigate opportunities to utilize solar heating to improve efficiency of water heating systems.

Green roofs Investigate opportunity to incorporate green roof into future roof repairs and/or replacements. The Water & Electric Plant has several flat roofs that may provide suitable support for this design.

FR3 Distribution Transformer Fluid Investigate the use of FR3 transformer fluid to replace mineral oil in various transformer applications. FR3 is manufactured from soybeans.

Renewable Energy Credits (REC's). Purchased one lump sum of REC's to offset 50% of the electric load for Village buildings, saving a net of 2,100 metric tons of CO2 emissions.

Net Metering. The Village is in the process of adopting appropriate ordinances and policies to provide for homeowners to install solar panels or other renewable energy equipment to supply part or all of the energy needs of a residence. If the equipment is supplying more electricity than the home is consuming, excess energy would be placed on the power grid, and the homeowner would receive a credit for this energy.

Natural Gas Vehicles. The Village is investigating the cost-effectiveness of converting some of its fleet to operate on compressed natural gas.