

Village of Glencoe – Sustainability Study

Appendix I

Ongoing Programs in Glencoe

Village Hall / Public Works Garage
Water Treatment Plant
Glencoe Golf Club
Public Library
School District # 35
Park District
Chicago Botanic Garden

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April 2009

Inventory of GREEN Practices for the Village of Glencoe

Municipal Buildings

- o Replacement of all windows in Village Hall building with thermopane glass aluminum frame units
- o Awarded grant from Illinois Clean Energy for installation of low energy lighting as part of Public Safety Department remodeling project
- o Reduced energy use by conversion to more efficient fluorescent lighting in recently renovated areas of Village Hall (2007)
- o Conversion to programmable thermostats as part of Public Works Garage renovation (1997)
- o Installation of insulated glass windows at Water Plant (1996)
- o Conversion to fixed temperature, low range thermostats in unoccupied areas of Water Plant
- o Installed light sensors for outdoor lighting at Water Plant

Transportation/Fuel Consumption

- o Use of two Ford Escape Hybrid vehicles (purchased in 2007 & 2008) by Community Service Officer and Director of Public Works
- o Use of one Compressed Natural Gas (CNG) cargo van by Water Plant
- o Use of diesel powered Fire and Public Works vehicles
- o Bicycle patrols utilized by Public Safety during spring and summer months
- o Pilot purchase program to reduce size of replacement vehicles:
 - Larger Public Safety SUV patrol vehicles being replaced with mid-size units (Expedition to Explorer)
 - Testing the use of mid-size pickup truck for Public Works supervisors

Waste Reduction & Recycling

- o Village collects 8,000 cubic yards of leaves annually through Fall parkway pick-up program for composting at Chicago Botanic Garden
- o Village is one of 23 members of SWANCC, Solid Waste Agency of Northern Cook County, a unit of local government and a non-profit corporation formed in 1988 to manage the region's municipal solid waste. The Village participates in the following SWANCC programs:
 - Computers/Electronics Recycling
 - Prescription Drugs/Sharps Disposal
 - Compact Fluorescent Light Bulb (CFL) Disposal

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- Mercury Thermometer Exchange
- Document Destruction Event
- Household Chemical Waste Collection Events

- o Village collects over 2,000 tons of residential recyclables annually through curbside pick up program ranking near the top of SWANCC member communities
- o Collection and recycling of oil and oil products from Village fleet maintenance
- o Six recycling containers recently added on sidewalks throughout downtown business district

Forestry & Tree Preservation

- o Forestry Division includes four certified arborists, is responsible for the maintenance of more than 10,000 trees located in the public right-of-way, and has aggressive programs targeting Dutch Elm Disease and Emerald Ash Borer to protect the Village's forested character
- o There are two annual parkway tree planting programs (Spring & Fall) where close to 300 trees are planted throughout the Village, including a 50/50 cost sharing program for residents to purchase trees for their parkways
- o Village has been awarded Tree City USA designation each year since 1985
- o Village has a Tree Preservation Ordinance dating back to 2000 that has been strengthened several times in response to community input
- o Maintenance of tree protection fencing aggressively enforced on construction sites
- o Parkway trees planted, where space is available, at all new residential construction sites since 1995 at owner's cost

Water Conservation/Management/Consumption

- o Village has long standing lawn sprinkler regulations that limit which days of the week watering may occur
- o Impervious surface regulations were adopted by the Village Board in 2007 to reduce storm water runoff
- o Village has recently approved rain gardens at two locations in lieu of underground stormwater storage
- o Erosion control is required on construction sites to manage pollution and sedimentation runoff into storm sewers, ravines, and Lake Michigan
- o Glencoe Water Plant provides citizens with adequate volumes of high quality water at reasonable competitive cost. Plant has capacity to produce 8,000,000 gallons per day although average daily production is 1,800,000 gallons per day.

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- o Annual leak detection investigation of Village's water distribution system to identify and repair leak locations

Air Quality & Noise

- o Goal to reduce fuel consumption by 10% per Village Department via:
 - Avoiding unnecessary vehicular trips
 - Adopting idling policy for Public Works vehicles that requires engine to be turned off when parked at job sites for more than 5 minutes
 - Purchasing hybrid vehicles
- o Ordinance restricting the use of gas powered leaf blowers between May 15 and September 15 to reduce noise and pollution
- o Compliance with IEPA's Clean Fuel Fleet Program. (A *clean fuel vehicle* is an original equipment manufacturer vehicle or conversion system installed on an existing vehicle that is certified to one of the four federal low emission standards and the vehicle operates with the fuel to which the vehicle was certified.)
- o Rehabilitation of Public Safety firearm range filtering system to minimize toxins from entering Village Hall's exhaust system
- o Strict enforcement of water-type equipment for stone, brick, and paver saw cutting for dust control
- o Require installation of temporary electric service for new construction sites to eliminate noise and air pollution from gasoline powered generators

Infrastructure

- o Village-wide water meter replacement program currently underway. New digital radio read system is more efficient and is able to quickly identify potential water loss on private systems.
- o LED lighting at new Dundee Road/Hohlfelder Road traffic signal and Green Bay Road pedestrian signal at Community Center
- o Use of solar power speed trailer by Public Safety
- o Use of solar power arrow board by Public Works
- o Effort made to reduce road salt usage

Community Outreach & Education

- o Organize Student Earth Day Cleanup Event – annual event that involves District #35 students cleaning litter and debris from park and school sites and along Green Bail Trail
- o Sponsor annual Arbor Day tree planting at one of three local elementary schools

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- o Promote “Green” initiatives through Village website and Glencoe Memo
- o Village Board adopted a resolution on February 21, 2008 endorsing the Metropolitan Mayors Caucus’ Greenest Region Compact, which outlines measures to address reductions in consumption of energy and fossil fuels, water, air pollution emissions, and hazardous and solid waste.
- o Bronze level member community of Clean Air Counts, a public/private initiative to voluntarily improve air quality in the Chicago metropolitan region
- o Participation in Northern Illinois Energy Project’s Residential Lighting Program – Village received 2000 CFL bulbs for distribution to residents

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VILLAGE OF GLENCOE

RESOLUTION NO. R-20-2008

A RESOLUTION DIRECTING THE CONTEXTUAL DESIGN REVIEW COMMISSION TO STUDY PROGRAMS, POLICIES, AND INCENTIVES REGARDING SUSTAINABLE/GREEN DESIGN

WHEREAS, it is important for local governments throughout the United States to take leadership roles by adopting environmental programs, policies, and incentives to encourage best ecological practices that provide quality of life benefits for its citizenry and enhance the sustainability of the community and the greater region; and

WHEREAS, on November 17, 2007, the League of Women Voters of Glencoe hosted the event, *Green Tea and Conversation*, that brought together the Village of Glencoe, District 35 Board of Education, Library, and Park District to address community concerns regarding the state of the environment; and

WHEREAS, in June 2007, the Village of Glencoe took the necessary steps to reach the bronze level under the *Clean Air Counts* program, a multi-year collaborative effort between the Metropolitan Mayors Caucus, City of Chicago, U.S. Environmental Protection Agency Region 5, and Illinois Environmental Protection Agency to achieve specific and significant reductions in targeted smog-forming pollutants and major reductions in energy consumption; and

WHEREAS, on February 21, 2008, the Glencoe Village Board approved Resolution No. R-01-2008, a resolution endorsing the Metropolitan Mayors Caucus' *Greenest Region Compact*, which outlines a number of cost-effective environmental sustainability measures that enhance health and safety, reduce the consumption of energy and fossil fuels, conserve water, and reduce hazardous and solid waste, and air pollution emissions; and

WHEREAS, neighboring community Northbrook amended its municipal code, effective June 1, 2008, to include a new article, Article XV., entitled Green Building Initiative, and nearby community Evanston is currently considering a proposed Green Building Ordinance; and

WHEREAS, at the October 16, 2008 Village Board meeting, members of the Contextual Design Review Commission (the "**CDRC**") presented a status report that included three recommendations, one of which was that the Village Board consider adopting Village-wide policies concerning sustainable/green design; and

WHEREAS, in recognition of the CDRC's special knowledge and expertise in building and architectural matters, the Village Board desires to have the CDRC undertake a study of programs, policies, and incentives regarding sustainable/green design, and in doing so formulate specific recommendations for the Village Board's consideration.

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NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF GLENCOE, COOK COUNTY, ILLINOIS, as follows:

SECTION ONE. Recitals. The recitals set forth above are incorporated as a part of this Resolution by this reference.

SECTION TWO. Referral to Contextual Design Review Commission. The President and Board of Trustees hereby authorize and direct the CDRC to review and analyze potential programs, policies, and incentives regarding sustainable/green design, and to present a report to the Village Board of Trustees resulting from such review and analysis.

SECTION THREE. Time Frame. The CDRC will present their final report, or if not concluded, a status report, to the Village Board no later than June 18, 2009.

SECTION FOUR. Effective Date. This Resolution shall be in full force and effect upon its passage and approval in the manner provided by law.

PASSED this 20th day of November 2008.

AYES: Debb, Keefe, Melamed and Shubart (4)

NAYS: None (0)

ABSTAIN: None (0)

ABSENT: Cowans and Solomon (2)

APPROVED this 20th day of November 2008.

/s/ Scott M. Feldman
Village President

ATTEST:

/s/ Paul M. Harlow
Village Clerk

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RESOLUTION NO. R-01-2008

RESOLUTION ENDORSING THE METROPOLITAN MAYORS CAUCUS' GREENEST REGION COMPACT

WHEREAS, the Metropolitan Mayors Caucus provides a forum for the chief elected officials of the Chicago region to develop consensus and act on common public policy issues and multijurisdictional challenges; and

WHEREAS, the Metropolitan Mayors Caucus' participating Mayors and their communities have a history of improving the environment, from promoting environmental practices through waste management, green purchasing, and participation in Clean Air Counts; and

WHEREAS, it is important for Mayors and local governments throughout the United States to take leadership roles by adopting environmental programs that provide economic and quality of life benefits such as reduced energy bills, green space preservation, air quality improvements, and improved transportation choices; and

WHEREAS, the Metropolitan Mayors Caucus created the Greenest Region Compact to address environmental issues of global importance at the local level; and

WHEREAS, the Compact outlines a number of cost-effective environmental sustainability measures that enhance health and safety, reduce the consumption of energy and fossil fuels, conserve water, and reduce hazardous and solid waste, and air pollution emissions.

NOW, THEREFORE BE IT RESOLVED that the Village of Glencoe endorses the Greenest Region Compact proposed by the Metropolitan Mayors Caucus and agrees to join this effort to improve the metropolitan Chicago region's environment.

BE IT FURTHER RESOLVED, that this Resolution be spread upon the minutes of this proceeding, and that an executed copy of this Resolution, inscribed with the signature of the Village President, and bearing the Corporate Seal of the Village of Glencoe, as attested by the Village Clerk.

Dated this 21st day of February A.D., 2008, at the Village of Glencoe, Cook County, Illinois.

/s/ Scott M. Feldman
Village President

/s/ David A. Clark
Deputy Village Clerk

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Metropolitan Mayors Caucus Greenest Region Compact of Metropolitan Chicago

We the undersigned Mayors will strive to improve the environment in the Chicago region by taking actions in our own operations and communities.

Through our leadership we will demonstrate the economic and social viability of sustainable and environmentally friendly practices.

To create the greenest region in the United States, we will commit to:

1. Setting environmental goals within our communities, and
2. Implementing at least seven strategies identified in the Workbook that support the achievement of our goals, including the three Priority Strategies identified by the Caucus' Environmental Committee as described below.

Priority Strategy 1:

Promote residential water conservation practices.

Goal: Measurably reduce the amount of water used by 15% below 2000 water consumption levels by 2015.

Potential Adaptation Actions:

1. Educate residents to increase their knowledge of water saving practices.
2. Provide information on simple ways to save water.
3. Enact sprinkler and outdoor water usage ordinances.
4. Promote use of rain barrels.
5. Encourage use of aerators on water faucets.
6. Repair or replace leaking municipal water mains.
7. Encourage residents to install water meters and check for household leaks.
8. Provide financial incentives to encourage behavioral changes.
9. Encourage xeriscaping – a set of landscape design principles which minimize water usage.
10. Incorporate conservation practices into new development guidelines and incentives, such as for low-flow toilets and showerheads and higher efficiency appliances.
11. Any additional strategy identified by a municipality that is compatible with its environmental goals.



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Priority Strategy 2:

Enact E-Waste Recycling Programs.

Goal: Measurably decrease the amount of electronic waste collected by curbside waste haulers.

Potential Adaptation Actions:

1. Develop an e-waste recycling program.
2. Provide information to residents on the hazards of improper disposal of e-waste and the environmental benefits of recycling e-waste;
3. Host, sponsor or advertise at least one e-waste recycling event annually.
4. Donate used equipment to schools, libraries, non-profits, etc.
5. Any additional strategy identified by a municipality that is compatible with its environmental goals.

Priority Strategy 3:

Participate in the Northern Illinois Energy Project's Residential Lighting Program.

Goal: Reduce residential energy consumption by encouraging the use of Compact Fluorescent Light Bulbs.

Potential Adaptation Actions:

1. Partner with the Northern Illinois Energy Project to offer free, or discounted, CFL light bulbs to residents.
2. Any additional strategy identified by a municipality that is compatible with its environmental goals.

Additional Environmental Strategies:

Air Strategies:

1. Retrofit municipal diesel engines by installing pollution control devices.
2. Raise awareness of public transit options by displaying information about options and promoting these choices to citizens, employees, and visitors.
3. Build bus shelters and install bike racks to encourage non-automotive travel.

Energy Strategies:

4. Reduce energy consumption by changing out incandescent traffic signal bulbs to light emitting diodes (LEDs).
5. Commit to annually purchasing renewable energy or renewable energy certificates.

Land Strategies:

6. Implement a municipal tree planting ordinance to establish, and maintain maximum tree cover.

Waste Strategies:

7. Adopt a local ordinance or policy which requires the recycling of construction and demolition debris.
8. Offer a residential paint recycling program.

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9. Implement a curbside recycling program.

Water Strategies:

10. Review local stormwater ordinances, identify barriers to implementation, and encourage the implementation of Stormwater Best Management Practices through local planned developments and redevelopments.

By signing the Greenest Region Compact of Metropolitan Chicago, we pledge to make environmental considerations a priority. We will demonstrate that environmental practices are fiscally responsible. We call on our residents and businesses to join us as environmental stewards to preserve our resources, climate, and economic viability of our region for future generations.

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Glencoe Water Treatment Plant

Meeting with Tom Weathers May 4, 2009

1. Production capacity: 8 – 9,000,000 gallons/day.
2. Glencoe need: 1,000,000 gallons/day (winter) 3,500,000 gallons/day (summer)
3. Plant was originally sized to accommodate Northbrook's need in addition to Glencoe. Northbrook has subsequently constructed its own pipeline and treatment facility in 1963.
4. Most Northshore communities have their own water treatment facilities (HP, Winnetka, Wilmette, Evanston, Kenilworth, Lake Forest, Lake Bluff, Waukegan, & Zion).
5. System description: (4) 10-30 hp pumps draw lake water through a 24" diameter intake pipe which extends 3300 feet out in lake. Water is chemically treated through a series of basins, agitated, settled and passed through a coal/sand filter. (4) high-lift pumps 75-200 hp, pump water into Edens storage tank and 50 miles of distribution piping to customers.
6. Energy Efficiency Measures: All pumps have premium efficiency motors saving 10% of electrical energy costs. They also have variable speed drive functions for additional energy savings at lower operating levels. Plant windows have been replaced with insulated glass units. Building does not have good insulation but heat level is kept at 45° F.
7. Glencoe uses 650 MGY or 200 GD/Person. This is high when compared to the national average of 100 GD/person. Usage declines in winter when outside uses (sprinklering) cease. Winter use averages 1MGD, while summer use is 3.5 MGD. A reduction in per capita consumption was noticed this past April. (1.3 MGD/April 08 vs 1.0 MGD/April 09.
8. Glencoe has a water conservation ordinance in effect during summer months, but is not regularly enforced. The ordinance might be reviewed if it is desired to make it stronger.
9. 2% of total water provided is actually consumed while 98% in winter is used for bathing, cleaning, etc.
10. 5% of total water produced is used for cleaning of the filter system while 95% goes into distribution system.
11. Conservation of water is not incentivized as water rates are relatively low and production costs (Personnel, energy use, & supplies) would be constant despite a lower volume.
12. Newer water treatment plants are using membrane technology, not the sand filtration used by Glencoe. This technology, however, is more energy intensive and wastes more water.
13. Water conservation is encouraged in other cities through a sliding rate scale for consumption.
For example:
 - 1000 G: Low rate
 - 1000-10000G: Moderate rate
 - Above 10000G: High rate
14. Water treatment plant does not receive any tax dollars. It operates as an enterprise zone and is supplied from funds generated by water fees.
15. Opportunities for "gray" water usage are limited to retrofits on a house by house basis. (toilet flushing from waste, shower and bath water).

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GREEN INITIATIVES – GLENCOE GOLF CLUB

April 2009

The Glencoe Golf Club has established the following maintenance practices in order to maintain an eco-friendly club.

4 electric utility carts have replaced 4 gas carts. Our goal is to replace the 7 remaining utility vehicles with electric over the next 5 years.

No mow areas have been created which reduce the use of fuel for cutting as well as fertilizer use.

All grass clippings are mulched and returned to the earth rather than bagging and disposing.

A compost pile has been created in which all small branches and leaves will be placed to decompose naturally.

All daily garbage disposed of on the course is sorted and placed in recycle bins.

Organic fertilizers are being utilized throughout the course.

Waste products, such as used motor oil, electric batteries and unused solvents, are recycled or disposed of according to the law.

To reduce the use of chemicals and fertilizer Integrated Pest Management (IPM) is utilized throughout the facility. IPM is a process for attaining long-term, environmentally sound pest suppression and prevention. The process works with nature to achieve its grand design. Instead of periodically dowsing a pest-infected lawn with chemistry, IPM monitors the problem and employs practical solutions for dealing with it by proper on course scouting of a certain pest problem. Treating an infected site chemically versus a broadcast application over a large area.

Pesticides and fertilizers are used only on certain portions of the golf course. The rest of the property consists of natural areas not maintained with turf care products. These areas can provide a home for wildlife and include a diverse variety of native plants and trees.

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WATER MANAGEMENT AND CONSERVATION

When effectively irrigated, healthy turf provides numerous environmental benefits. Properly maintained turfgrass:

- o Produces oxygen (carbon dioxide exchange) and cools the atmosphere
- o Prevents soil erosion
- o Filters natural and synthetic contaminants from rainfall and irrigation
- o Recharges critical groundwater supplies
- o Provides crucial "greenspace" in urban settings

As a result of computerized irrigation systems and improved turfgrass varieties, we can now use less water more efficiently to achieve the same level of conditioning.

Using weather reporting services and other resources to determine accurate daily irrigation replacement needs reduces over-irrigation.

Recycled rainwater is being collected in drain tiles which lead to our irrigation pond. We then pull water from the pond for irrigate the golf course.

Using state-of-the-art computerized irrigation control systems, and variable frequency drive pumping systems to apply water in the most efficient means to reduce water and energy consumption.

Selecting low-water-use turf grasses, groundcovers, shrubs and trees for use on the course.

Using mulches in shrub and flower beds to reduce water evaporation losses.

Adjusting mowing heights to the ideal levels, depending on species and seasonal water use characteristics.

Using soil cultivation techniques such as spiking, slicing and core aerification to improve water infiltration and minimize runoff during irrigation or rainfall events.

Improving drainage where needed to produce a healthier turf with better root systems that can draw moisture from a larger volume of soil.

Cycling irrigation sessions to ensure good infiltration and minimize runoff.

Root pruning trees near critical turf areas to prevent tree root competition with the turf for moisture and nutrients.

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AUDUBON SANCUTARY PROGRAM

The Glencoe Golf Club is a member of the Audubon Cooperative Sanctuary System. Currently we have achieved status in the Environmental Planning Category.

We are working towards achieving full certification as a Certified Audubon Cooperative Sanctuary. The program is designed to protect and sustain the land, water, wildlife and natural resources in use and surrounding the golf course.

The golf course is currently working toward achieving status in the Wildlife and Habitat Management category. Included in this category are:

- o Training staff on wildlife and habitat
- o Documenting core habitat areas
- o Conducting a wildlife inventory
- o Connecting natural areas with wildlife corridors
- o Increasing plant diversity
- o Installing and monitoring nest boxes
- o Protecting wildlife habitat
- o Maintaining a water source for wildlife with native landscaping along the shoreline

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Inventory of GREEN Practices for the Glencoe Public Library May 2009

Awarded Illinois Clean Energy Foundation grant to replace older fluorescent lights with more efficient lamps that reduce energy usage while improving the amount and quality of light throughout the building.

Worked with a building preservationist to restore rather than replace the large bay window on the east end of the building, resulting in costs savings while maintaining the beauty of the original design. Replacement of the original glass with laminate has helped to mitigate heat loss.

Currently refurbishing the entrance area (front door and glass fan and sidelights) that will result in improved energy efficiency and enhanced appearance.

Replaced all toilets in public restrooms with new water-saving automatic flush systems

Timers control thermostats and outdoor lights.

Irrigation system is run within defined limitations and only when needed.

Reduced reliance on air-conditioning through retrofit of HVAC with economizer system, using dampers to bring in fresh air and interior fans to assist with air circulation.

Roof is vented and the attic contains a fan to reduce concentration of hot air.

Renewed flat roof with reflective paint to lessen absorption of solar heat.

Reduce use of paper by encouraging library patrons to move from print to digitized sources and electronic resources.

Encourage communication via email rather than mailed notices.

Will begin service in July as a collection center for small appliances that are recycled by a not-for-profit agency serving disabled adults.

Library staff recently met with a firm that specializes in ecological business operations to review current initiatives and practices. We were commended for:

- o Recycling paper, glass, and cans
- o Using paper on both sides with a duplex photocopier and for preliminary drafts and scrap paper
- o Recycling printer toner and ink cartridges

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- o Use of eco-friendly cleaning supplies
- o Installation of a program that automatically turns computers completely off on the weekends
- o Checking out canvas bags for patrons to carry library materials
- o Awarding eco-sensitive program prizes, eg. commuter cups, expandable bags

Recycles books and audio-visual materials donated by residents, and also those removed from the library's collection, through the Friends of the Library Used Book Sale and other agencies which distribute books to literacy efforts world-wide.

Participates in community-wide initiatives related to sustainable practices and environmental and energy concerns, such as "Glencoe Goes Green," "Green Tea and Conversation," and most recently, "goGREEN! Week."

In its programming role, the library has presented several films related to environmental issues (eg. *The Electric Car*, *An Inconvenient Truth*, etc.) and promoted environmental awareness through programs and children's activities.

Periodically promotes materials relating to environmental issues in the various display cases and prepares bibliographies to encourage residents to do further reading on their own.

The library recently helped a local church survey the community for recycling opportunities and locations
.DV

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SCHOOL DISTRICT #35

DISTRICT



Glencoe
School District #35

620 Greenwood Avenue
Glencoe, Illinois 60022
847/835.7800
FAX: 847/835.7805

Cathlene A. Crawford
Superintendent of Schools

Board of Education
Robert Bailey
James Burnham
Edward Chez
Laura Malehorn
John Myefski
Eric Sigurdson
Keith Stauber

May 6, 2009

Nathan:

Attached is some information from Board Policies, school activities, and PTO joint ventures. I'm not sure if this will help with your Sustainability Study.

In 2000 the district replaced classroom and hallway lights, as well as doors and windows at West School and portions of Central School. I believe it was in 1995 that the windows were replaced at South School.

At this time we are looking at ways to accomplish approximately \$2 million of maintenance repairs at the three schools. This would include items such as plumbing, painting, exterior door replacement at South School, roofing repair/replacement, elevator replacement, etc.

We have investigated roof top gardens and found the structure will not accommodate the weight. We have also applied for a grant through Illinois Solar Energy Incentive Program to place a solar pane at West School. It would be more of a teaching tool rather than generating energy for the grid. At this time we have not received notification regarding the grant.

The PTO is funding gardens at the schools, which will also become teaching tools. The students at South will have an organic vegetable garden and a native plant garden. The students at West have a flower garden and also a test plot for corn. Each of these gardens uses the composting from the students school lunches.

At Central School students will be working in a simulated study regarding the effects of acid rainwater on plant growth, building wind turbines as they study wind power and completing experiments to increase their understanding of the chemistry of recycling. The PTO sponsors many of these activities.

Best of luck and please let me know if there is additional or different information, which you are seeking.

A handwritten signature in black ink, appearing to be "Cathy", written in a cursive style.

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GLENCOE PARK DISTRICT

May 11, 2009

To: CONTEXTUAL DESIGN REVIEW COMMISSION

From: B. C. Rosauer

Subject: INTERVIEW WITH SUPERINTENDENT OF PARKS IN GLENCOE

On April 29, 2009, I interviewed Rick Bold regarding the Park District's involvement with sustainability and green practices.

Although the Park District's management and use of land parcels is not equal to The Botanic Garden's 385 acres, its goals are much the same in providing a safe, healthy, and sustainable environment for its users.

The following list outlines some of their achievements:

- * Servicing all vehicles indoors to control contamination.
- * Researching alternative fuel vehicles.
- * Retrofitting lights within buildings.
- * New thermostats within buildings.
- * Minimal chemical use on turf areas.
- * Mowing grass higher and less frequently.
- * Leave grass clippings on turf (Grasscycling).
- * Not collecting leaves in parks but shredding/recycling back onto turf areas.
- * Use of all native plants in parks.
- * Eliminating Buckthorn bordering the parks.
- * The new TAKIFF CENTER is a LEED Building.
My research on this facility is pending.

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June 8, 2009

To: Contextual Design Review Commission
From: B.C. Rosauer
Subject: INTERVIEW WITH DIRECTOR OF FACILITIES AT THE
TAKIFF CENTER - Glencoe

On May 27, 2009, I interviewed Rob Ward regarding the Takiff Center's (formerly Community Center) LEED certification and surprisingly, it is not certified. As I was informed, the first LEED drawings generated approached \$28 million and the approved referendum was for \$14 million. Nevertheless, the architects were successful in utilizing all the current energy saving models within this new facility.

The Takiff Center includes a fitness center, dance studio, gymnasium, new adult classrooms and programs in partnership with Oakton Community College, a pre-school learning center, community hall accommodating 120 guests, catering kitchen, new creative mixed media arts rooms, music rooms, theatrical production room and various administrative offices.

After doing a walk-thru with the Director, I have listed below many of the innovative features making this a safe, energy conserving building.

- * Voice and motion detectors for lights in all rooms
- * Heating system monitors oxygen levels throughout
- * HVAC system monitors a 6° swing point in all rooms
- * Phones in every room
- * LUTRON lighting: 2am sweep of entire building
- * Director has a Blackberry which receives HVAC data
- * Each room has cable connection
- * Security system monitors inside and outside
- * MONDO flooring in pedestrian hallways: 15 year life
- * Security system monitors history of door use
- * Architect utilized existing walls to appreciate savings
- * Incorporated skylights into workout rooms
- * Eco friendly kilns in pottery room
- * Green roof is proposed
- * Children's playground accessible to proposed Garden
- * Plantings indigenous to area
- * Water retention swales incorporated into landscaping
- * Budget saving Bituminous paving in lieu of porous pavers

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To: CONTEXTUAL DESIGN REVIEW COMMISSION

From: B. C. Rosauer

Subject: INTERVIEW WITH THE CHICAGO BOTANIC GARDEN

On April 28, 2009, I interviewed Bill Brown, V.P. of Facilities and Planning regarding the Garden's involvement in sustainability and green design and for an hour, we discussed their past, present and future initiatives.

Of course, The Botanic Garden is a world class display garden of lakes, woods and prairie with millions of living plants documented and researched. It is home of the Regenstein School and now the Rice Science Center; a LEED building. As the Garden continues with plant research and education, it also embraces sustainability as part of its mission.

The following list briefly outlines some of their achievements:

- * Diverting contaminated water from the North Branch of the Chicago River around the interior lakes.
- * Shoreline restoration to eliminate erosion and improve water quality.
- * Enhancement of the Skokie River wetland.
- * Creation of the sound barrier wall along the west border.
- * Controlling runoff from parking lots and roadways.
- * Using sand in lieu of salt on winter roads.
- * Use of Border Collies to control geese use of lakes.
- * Composting of the Village of Glencoe's leaves for use within the Garden.
- * Monitoring of water quality in lakes by qualified Garden staff.
- * Limited use of chemicals on turf areas.
- * The new Rice Science Center is the 4th building in the Chicago Region to receive the Gold LEED rating from the U.S. Green Building Council.
- * Sustainability Audit completed 3 years ago by Shaw Environmental Group.
- * Proposed Parking: Reduction of surface parking with the construction of a 1 story facility.
- * 50 in 5 Plan: 50% in 5 years reduction of all pesticides and chemicals.

As part of this interview, please find attached The Botanic Garden's February 2009, 4 page Sustainability Draft identifying their long term goals.

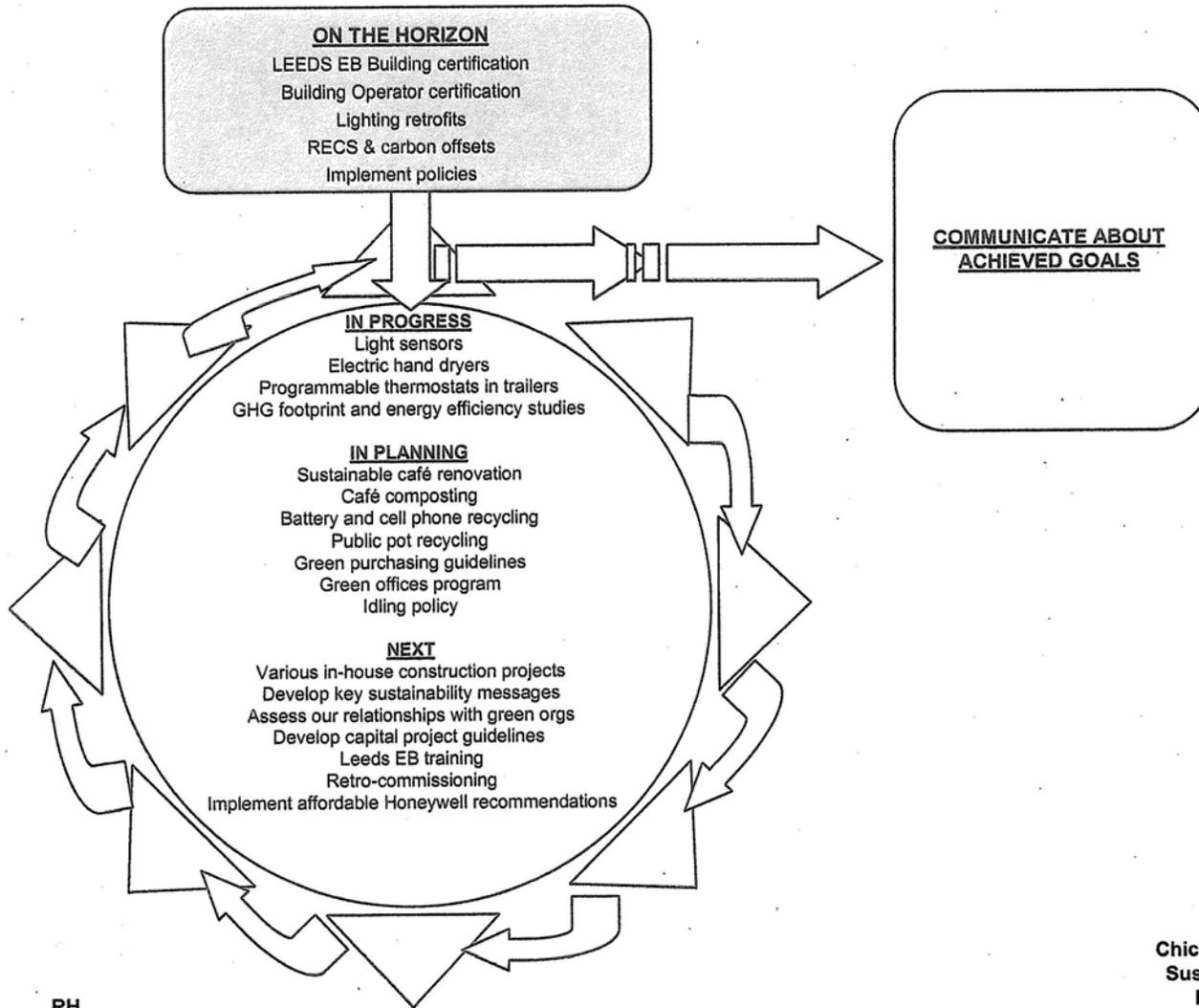
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Embracing Sustainability

DRAFT

CHICAGO BOTANIC GARDEN

Village of Glencoe – Sustainability Study



Chicago Botanic Garden
Sustainable Operations
FEBRUARY 18, 2009

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The visioning sessions resulted in working statements that represent the consensus of the group...

Chicago Botanic Garden Mission:

Promote the enjoyment, understanding and conservation of plants and the natural world.

Sustainability Guiding Principles: *We believe that...*

“Plants are the foundation of all life on Earth. We recognize that the greatest threat to plants is the impact of non-sustainable human practices.

To fully achieve our mission we must practice and promote sustainability in all aspects of the Garden, including our operations, scientific research, educational programming and collections,

The Garden can, and should, lead efforts to mitigate the effects of climate change.

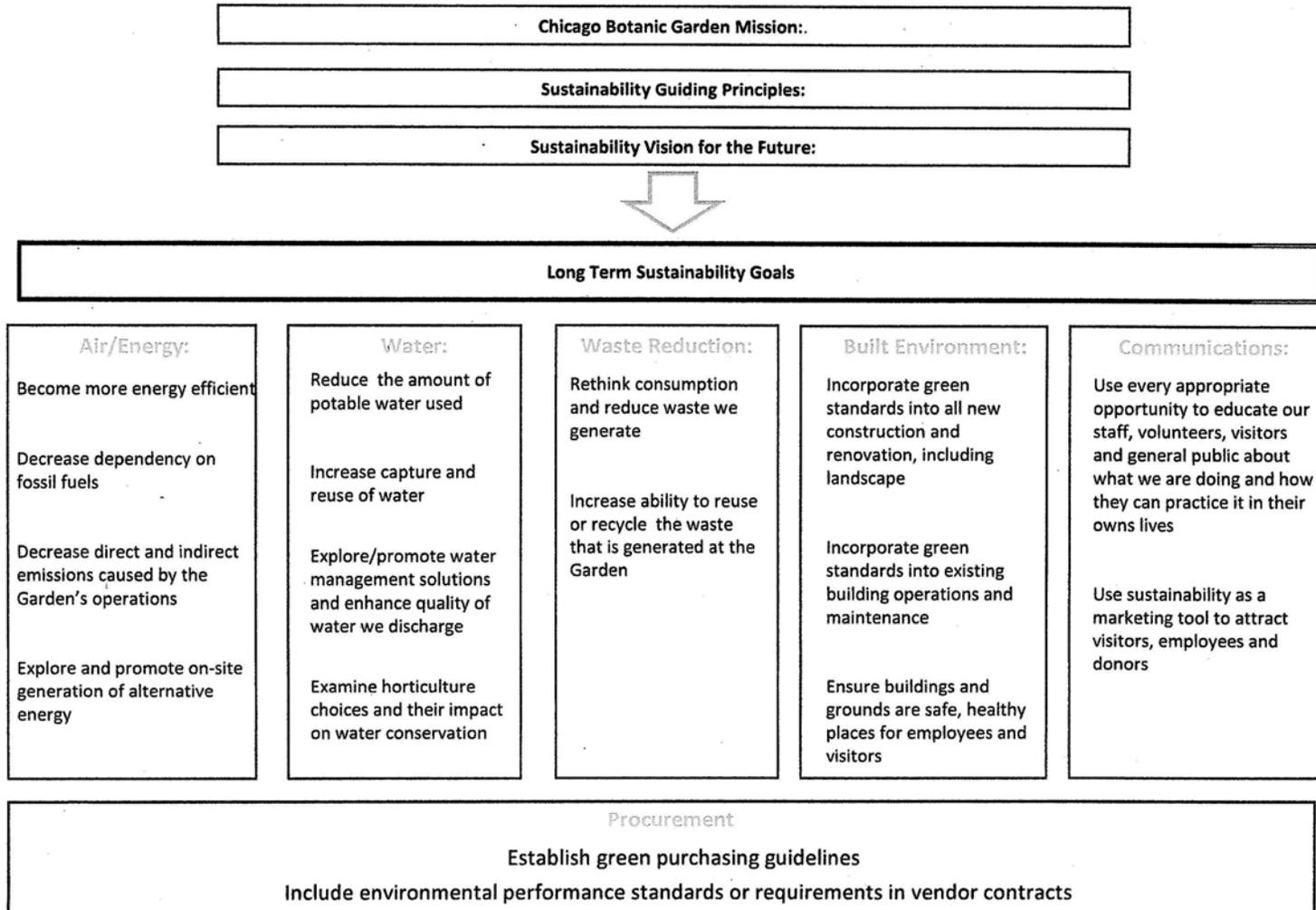
We can achieve sustainability without compromising the integrity of our mission and the quality of our gardens and the visitor experience.”

Sustainability Vision for the Future: *We envision a future where...*

“The Garden leads the region and the nation in sustainable practices that support clean air, water, and land for future generations. The Garden has become a destination, where people, organizations and public officials learn how to create sustainable homes, workplaces and communities. “

Village of Glencoe – Sustainability Study

The next step is to set targets for each of the sustainability goals



Define the Change Impacts

Long Term Sustainability Goals

- Air/Energy
- Water
- Waste
- Built Environment
- Communications
- Procurement

How much do we want to improve?

How will we measure our progress and success?

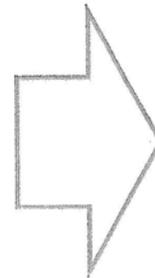
How will we proceed? What are the best ways to accomplish our goals?

What specific tactics/projects should we start with?

What are the cost benefits of each tactic – what resources do they need?

How can we sequence these tactics to achieve maximum results?

How do we manage and institutionalize the behavioral changes?



An outcome will be a portfolio of sustainability projects

