

VILLAGE  
OF  
ARLINGTON  
HEIGHTS



Energy  
Efficiency  
Conservation  
Strategy



June, 2009



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**JUNE 2009**

**VILLAGE OF ARLINGTON HEIGHTS  
33 South Arlington Heights Road  
Arlington Heights, IL 60005**

*[www.vah.com](http://www.vah.com)*

# ENERGY EFFICIENCY CONSERVATION STRATEGY

## INTRODUCTION

Back in 1836 a Yankee stone cutter, Asa Dunton was the first to stake claim and cultivate a living on land that became Arlington Heights. By 1845, Dunton's son William had already established a house and a store on the site, setting out to build a town of the future, but it was the railroad that actually put Arlington Heights on the map. As soon as the tracks were laid in 1853, property became valuable overnight. Land began to be developed and businesses started booming. To this day, the railroad is still one of the reasons the town remains a thriving business and residential community. These early pioneers laid the foundation for progress, advancement, and improvement that assured steady growth into the 21<sup>st</sup> Century. Today, shopping centers, major corporations, and high-rise mixed-use developments are intermixed with quaint store fronts, brick sidewalks, and antique lighting creating the ambiance of a small town and amenities of a big city.

While the landscape has changed over the years, the Village's heritage to public transportation has remained. As the community has grown, Arlington Heights has been a leader in many areas. It has been the recipient of several National awards for Downtown Transit Oriented Development (TOD). Today, the Village continues to be a strong advocate for regional planning, preservation of natural resources and a strong commitment to building sustainable neighborhoods that are pedestrian friendly and easily accessible to the award winning redeveloped Downtown.

As a new era approaches, the Village continues to take a leadership role to expand its past efforts to preserve natural resources and protect the environment from the effects of climate change.

The Village of Arlington Heights is pleased to present this Energy Efficiency Conservation Strategy that is designed to encourage residents, businesses, non-profit agencies, and other units of local government in their green initiatives.

## BACKGROUND / HISTORY

Over the past four decades, the Village of Arlington Heights has been very active in "Green Activities". During this time, the Village has implemented many programs and initiatives covering a wide range of disciplines including air quality, urban forestry, recycling, and electricity conservation. Many of these programs have been collaborative efforts involving the Village of Arlington Heights and other public agencies such as the Illinois Environmental Protection Agency (IEPA), the Solid Waste Agency of Northern Cook County (SWANCC) and private industry.

The following historical chronology outlines specific environmental programs and milestones over the past four decades:

- ◆ **1971** - The Village established the Environmental Control Commission (ECC). The ECC is an advisory body to the Village Board to address environmental concerns throughout the Village. In 1983, the ECC began an annual poster contest to promote environmental awareness. From 1990 through 2005 the ECC solicited the community for award nominations. Any Arlington Heights business, school, youth or senior group, government or civic organization, individual, service club or homeowners' group was eligible for these awards of environmental excellence. Awards are given for outstanding performance that occurred in that particular year.

- ◆ **1985** - The Village established the Bicycle Commission. As with the ECC, the Bicycle Commission is an advisory body to the Village Board to address traffic reduction through the promotion of bicycle use. A bike route system has been established to provide safe bicycle traffic through the Village.
- ◆ **1985** - The Village became certified as a Tree City USA. The Village continues to be proactive in issues involving our urban forest including Arbor Day. The Village currently manages an urban forest of approximately 47,000 trees of varying species. The Village has received the recognition at "Tree City USA" for 24 consecutive years.
- ◆ **1988** - The Village began its community-wide curbside recycling program for single-family residences. Through our continuous marketing efforts, residents in our single family program divert, on average, over 900 lbs. of recycled material per household annually.
- ◆ **1993** - The Village began its recycling program for multi-family residences. Multifamily residences are required to submit a recycling plan to the Village's Health Department. Each summer an intern reviews the plans, and inspects for compliance and offers suggestions for recycling opportunities.
- ◆ **1994** - The Village began participating in the "America Recycles Day" event. As part of this annual event, the Village drops off free recycling bins to residents that have damaged or lost bins.
- ◆ **1995** - The Village, in conjunction with the Solid Waste Agency of Northern Cook County and Motorola, hosted the first electronics recycling event. A total of 81 tons of electronic equipment was collected from 1,315 area residents and kept out of landfills. This is a successful program that has turned into a bi-annual event.
- ◆ **1995** - The Village began a pilot commercial recycling program in the Downtown. The program began in November 1995 and was completed in October of 1996 with 230 businesses participating. A total of 172 tons of recyclable materials were collected in the program. When the pilot program ended, approximately 20 businesses elected to continue their recycling program.
- ◆ **1996** - The Village began a 10-year program to convert all of the Village's 12 Civil Defense Sirens from electric power to solar power.
- ◆ **1998** - To help reduce vehicle emissions and improve air quality, the Village has been purchasing Low Emission Vehicles (LEV). Future initiatives include the use of alternative fuels and the purchase of hybrid vehicles.
- ◆ **2002** - The Village begins holding periodic Household Hazardous Waste (HHW) collection events. These HHW events have been co-sponsored by the Village, EPA, Metropolitan Water Reclamation District of Greater Chicago and the Villages of Mt. Prospect, Rolling Meadows and Elk Grove Village.
- ◆ **2004** - The Village installed a waste oil heater in its Public Works Annex Building. This heater is fueled by waste oil generated from the various Village vehicles. The Village recycles 200 gallons of oil annually.
- ◆ **2005** - The Village began a program to replace its older incandescent bulb traffic signal modules with newer more economical and energy efficient light emitting diode (LED) traffic signal modules. It is expected that this will reduce the electricity required to operate the traffic signals by 85%. All 18 Villages maintained intersections have been modified.
- ◆ **2005** - The Village began participating in a mercury exchange program sponsored by the Solid Waste Agency of Northern Cook County.

◆ **2006** - The Village's accomplishments for 2006 are highlighted below:

The Village was awarded a matching grant in the amount of \$8,750 from the Illinois Department of Natural Resources to augment its tree planting program. Annually approximately 500 parkway trees are planted throughout the Village.

The Village became a member of the "Clean Air Counts Coalition" and in December 2006 was awarded the Bronze Level Certification for our efforts to improve air quality. Among the efforts required to receive this award are a number of public outreach efforts that include: providing a brief description of the purpose of the CAC program and a link to the CAC website on the Village's municipal web-site. The Village displays CAC public information materials in prominent locations such as at the Public Works Department, Village Hall, and Senior Center and raises environmental awareness through community mailings and other outreach efforts.

The Mayor of Arlington Heights is the current Chair of the O'Hare Noise Compatibility Commission and has and has served as the only Chair of the Commission during its 12 years of existence.

The Village joined the Northwest Municipal Conference's Environmental Best Practices Committee.

On November 6<sup>th</sup>, the Village Board passed the Smoking Ordinance which, among other things prohibits smoking in most buildings within the Village.

The Village participated in the "Cans for Cash City Recycling Challenge" sponsored by the U.S. Conference of Mayors and received a certificate of recognition for that participation.

The Village provided a document destruction event, sponsored by SWANNC, at our Senior Center. Approximately 5.5 tons of shredded paper was generated from this event and sent to a recycling center.

The Village completed its transition to 20% bio-diesel fuel for use in all of its diesel vehicles. Diesel exhaust is responsible for more than 20% of the nation's smog-causing nitrogen oxide emissions and 15% of particulate matter (soot) emissions. Through the use of bio-diesel and other alternative fuels, reductions in soot, hydrocarbon, and carbon monoxide emission levels the Village can make significant progress toward improving air quality.

The Village continued the installation of LED traffic signal modules. A grant was received from the Illinois Clean Energy Foundation to augment this program.

The Village began a three-year program to illuminate the Village's entryway signs using solar power. The Village completed the installation of solar power at three of its entryway sign locations.

In 2006, the Village began construction of its new Village Hall. Inclusion of Green Building Technology was researched for this project. Energy efficient lighting was incorporated into the design of the Village Hall.

◆ **2007** - The Village's accomplishments for 2007 are highlighted below:

Attainment of the Clean Air Counts Silver Award level.

Retrofitting some of the Village's diesel trucks to reduce emissions. A diesel retrofit program is designed to reduce emissions of soot, smog-forming pollutants, and other toxic air pollution caused by diesel-powered vehicles. Using retrofit technologies, reductions in soot, hydrocarbon, and carbon monoxide emission levels can make significant progress toward improving air quality. One older and dirtier diesel vehicle can emit almost 8 tons of pollution per year, or a total of 160 to 240 tons of pollution over the life of the engine.

◆ **2008** - The Village's accomplishments for 2008 are highlighted below:

The Village received \$14,966 from the Illinois Environmental Protection Agency Alternate Fuels Rebate Program for the Village's continued use of Bio-Diesel (B-20) for Village vehicles.

10 Public Works trucks were retrofitted with diesel particulate exhaust filters. This \$17,819 project was funded through a grant from the Clean Air Counts Campaign. Diesel exhaust is responsible for more than 20% of the nation's smog-causing nitrogen oxide emissions and 15% of particulate matter (soot) emissions. Through the use of bio-diesel and other alternative fuels, reductions in soot, hydrocarbon, and carbon monoxide emission levels can make significant progress toward improving air quality.

The Village continued with a multi-year program to illuminate the Village's entryway signs using solar power. The Village completed the installation of solar power at two additional sites.

The Village placed into service two Hybrid SUV vehicles. These were replacements to the Village's fleet.

The Village signed the Metropolitan Mayors Caucus Greenest Region Compact, pledging our commitment to improve the environment region-wide with specific actions. With the signing, the Village received nearly 19,000 CFL light bulbs to distribute to our residents.

The Village Board passed the Sound Insulation and Energy Efficiency amendments to the Village Code requiring minimum energy efficiency construction standards. These provisions developed to minimize the effects within buildings from infiltrating external noise sources and to improve the energy efficiency of buildings and homes.

◆ **2009** - The Village's accomplishments for 2009 thus far are highlighted below:

The Village placed into service four Hybrid vehicles for non-emergency use. These vehicles were replacements to the Village's fleet.

Development of the "Green Guide" and "Green Initiatives" corner on the Village's new web site.

Creation of a Staff Committee to research and recommend Green Initiatives as part of the American Recovery and Re-Investment Act (ARRA).

Preparation of the Village Energy Efficiency Conservation Strategy (EECS).

## VISION STATEMENT

*Arlington Heights is a community that embraces and promotes energy efficiency and conservation measures thereby reducing its carbon footprint and resulting in healthier improved lifestyles.*

## GOALS & OBJECTIVES

### TRANSPORTATION AND LAND USE

#### **1. Continue to support and encourage mixed-use, transit-oriented development.**

- a. Continue to implement the 2007 Downtown Master Plan
- b. Maintain the reduced requirement for the number of parking spaces provided in developments Downtown or near new transit stations.
- c. Evaluate a requirement to provide spaces for bicycles and hybrid or electric vehicle parking in new developments.
- d. Encourage developers to provide shared parking in mixed-use developments.
- e. Maintain the existing payment option for developers in lieu of providing parking spaces Downtown.
- f. Continue to promote and manage the shared parking system in public parking garages.

#### **2. Encourage Arlington Heights businesses to adopt strong employee commuting or other programs aimed to reduce the number of single occupant automobile commuters.**

- a. Promote the Village's Bicycle to Work program and encourage businesses to consider similar programs.
- b. Support car-share programs by expanding designated parking for car-share vehicles in Village garages.
- c. Increase awareness of car-share program benefits among Arlington Heights residents and businesses.
- d. Encourage and promote other employee commuting measures such as RTA commuter credit, reverse commuter parking, shuttle bus service, or van pools.

#### **3. Reduce vehicle emissions.**

- a. Encourage taxi companies, local shuttle services and school buses to convert to hybrids or other fuel efficient vehicles.
- b. Explore offering incentives to taxi companies that purchase hybrid or highly fuel efficient vehicles.
- c. Where feasible, implement traffic-calming and speed reduction strategies that reduce unnecessary stops and starts to reduce greenhouse gas emissions.
- d. Develop a Village wide anti-idling campaign and promote awareness to residents and businesses.

#### **4. Support measures that reduce transportation-related greenhouse gas emissions. Promote healthy living and alternative transportation modes.**

- a. Support efforts to improve public transit connections.
- b. Encourage walking and bicycling to school by designating routes.
- c. Continue sidewalk enhancements and maintenance programs.
- d. Coordinate the installation of additional sheltered bicycle racks downtown and at transit stations.
- e. Facilitate the full implementation of the Village Bicycle Plan, and promotion of viable bike routes.

**5. Promote public transit as a viable option for commuting to work, home, and entertainment.**

- a. Continue to support, promote and implement the proposed Metra STAR Line.
- b. Continue to promote walkable neighborhoods to Downtown.
- c. Promote using Metra public transportation where feasible.

**6. Increase affordable housing options and resources in Arlington Heights as a mechanism to reducing vehicle travel.**

- a. Continue to explore and encourage affordable private housing.
- b. Promote the Village's Affordable Housing Toolkit Policy to facilitate jobs near housing thereby reducing vehicle travel.

**7. Reduce Village of Arlington Heights fleet vehicle emissions.**

- a. Continue to replace higher emitting vehicles with vehicles that meet or exceed the most current Environmental Protection Agency (EPA) emission standards.
- b. Ensure that the vehicle purchased "fits" the size of the duties for which it is intended.
- c. Maintain Bio diesel converted fleet.
- d. Monitor & expand purchase of hybrids as replacement vehicles.
- e. Where feasible, pool Village vehicles and reduce the size of the fleet.
- f. Promote bicycling and walking as an option, where feasible, within Police and Parking Enforcement operations to reduce fleet size.
- g. Promote anti-idling for Village vehicles
- h. Consider retrofitting applicable Village vehicles with emission reduction technology.

**ENERGY EFFICIENCY & BUILDINGS**

**Businesses**

**8. Reduce emissions related to electric and gas use in commercial, institutional and industrial buildings and promote Energy Efficiency through Utility Programs.**

- a. Encourage businesses to participate in programs that allow users to manage their energy use and take advantage of real-time pricing, if feasible.
- b. Collaborate with ComEd to increase awareness of and encourage businesses to participate in ComEd's commercial energy efficiency incentive programs including ComEd Load Response Program.

**9. Promote Business Community Outreach.**

- a. Promote the installation and use of programmable thermostats as an energy saving mechanism.
- b. Reduce heating and cooling loads by promoting light-colored roofs and paving materials, planting trees and increasing landscaping.
- c. Promote "best practice" examples by Arlington businesses.
- d. Encourage developers and contractors to exceed the minimum requirements established by the International Energy Conservation Code (IECC) when building or renovating.
- e. Work with the State to increase awareness of and encourage schools and affordable housing providers to participate in the IL Department of Commerce and Economic Opportunity's (IL DCEO) energy efficiency incentive programs.
- f. Encourage local retailers to stock and promote Energy Star products.
- g. Promote use of Energy Star products.
- h. Promote and facilitate energy audits and installation of recommended improvements.

## **10. Energy Efficiency Resources.**

- a. Expand and maintain the web based community resource guide for energy efficiency, renewable energy and green building grants, tax incentives and technical resources.
- b. Help small businesses, non-profit organizations and public agencies access energy conservation services through the Smart Energy Design Assistance Center (SEDAC), the Illinois Department of Commerce and Economic Opportunity (DCEO) and other agencies.

## **11. Codes, Policies, and Legislation**

- a. Support programs that require or provide incentives for new construction and existing buildings that achieve energy efficiency.
- b. Evaluate legislation to reduce outdoor light pollution.
- c. Require green building and energy-efficient measures, including Energy Star or equivalent appliances, lighting and heating equipment in Village-funded projects

### Residential

## **12. Reduce emissions related to electric and gas use in residential buildings.**

- a. Launch a community awareness program to promote the use of compact fluorescent lamps (CFLs)
- b. Promote shade trees and vegetative cover (walls and roofs) as an energy conservation technique.
- c. Work with the Community and Economic Development Association of Cook County (CEDA) to increase awareness of and participation in CEDA's free weatherization program for income-qualified households.
- d. Promote and facilitate energy audits and installation of recommended improvements.
- e. Advise residents of local, state, and federal programs and resources that provide information on financing for energy efficiency improvements.

## **13. Promote Education and Outreach.**

- a. Promote the use of Energy Star products.
- b. Support the development of workshops on reducing home energy use.
- c. Promote education and outreach efforts around the measures with the most cost-effective energy savings such as weatherization, CFLs, thermostats management and low-flow shower heads.

## **14. Reduce emissions related to electric and gas use in Village owned and operated buildings, parking lots, garages and along Village streets.**

- a. Consider energy-efficient measures that have a payback of 40 years or less.
- b. Support efforts to exceed energy code on new construction and renovation projects.
- c. Maintain converted traffic signals to light-emitting diode (LED) technologies.
- d. Convert street lights and traffic signals to more efficient technologies as they become available without compromising public safety.
- e. Leverage federal, state, and private funding to finance energy efficiency measures.

### RENEWABLE ENERGY RESOURCES

## **15. Reduce emissions related to motor fuel use through the use of bio-fuels.**

- a. Support efforts to make biodiesel commercially available to residents and businesses.
- b. Encourage residents to switch from regular gasoline and diesel fuels to bio-fuels if feasible.
- c. Continue to reduce emissions related to motor fuel use by Village fleet through the use of bio-fuels.
- d. Investigate the feasibility of retrofitting fleet vehicle fuel tanks and heating systems to run on waste vegetable oil. (WVO)

**16. Reduce emissions generated by buildings to the promotion and use of renewable energy.**

- a. Encourage residents to consider and install solar thermal panels for hot water heating at their homes or on demand systems.
- b. Encourage businesses and institutions to install solar photovoltaic systems when feasible.
- c. Consider the installation of solar thermal panels at Village facilities that use large quantities of hot water.
- d. Develop zoning and permitting regulations for the installation of renewable energy applications in residential and commercial buildings.

**WASTE REDUCTION AND RECYCLING**

**17. Increase residential waste reduction recycling.**

- a. Continue to expand and support efforts to increase community awareness of recycling.
- b. Continue to work with the Solid Waste Agency of Northern Cook County to expand recyclable material collection programs for residents in Arlington Heights, including electronic and paint waste.
- c. Advise residents of resources for recycling materials not collected through Arlington Heights' recycling programs.
- d. Encourage residents to compost at home.

**18. Increase commercial recycling and waste reduction.**

- a. Work with businesses to identify resources and strategies for reusing and reducing waste.
- b. Encourage businesses to begin or increase their recycling efforts.
- c. Identify barriers to recycling in the commercial sector and support efforts to overcome the barriers identified.
- d. Encourage retailers to offer incentives to customers that bring their own shopping bags.
- e. Encourage businesses and residents to utilize salvage services when undertaking demolition and renovation projects.

**19. Keep clothing and fabric out of the landfill.**

- a. Encourage efforts of local non-profits who have created a market for resale of used clothing.
- b. Encourage residents to "recycle" clothing, fabric, and other household goods.
- c. Encourage Village departments to purchase recycled content and durable, long lasting products.
- d. Promote efforts to increase recycling in public spaces and at events.
- e. Consider a recycling requirement as part of Village permits for special events.

**20. Reduce emissions related to the production and transportation of food.**

- a. Promote and continue to expand the Arlington Heights Farmer Market.

**FORESTRY AND BEAUTIFICATION**

**21. Optimize tree planting and protect existing trees for maximum carbon reduction.**

- a. Continue planting and management guidelines based upon urban forestry standards.
- b. Encourage Village wide tree preservation.
- c. Encourage tree planting and native landscaping by private landowners.
- d. Implement Green Corridors when feasible.

## **22. Optimize the use of native plants throughout Arlington Heights**

- a. Encourage the use of native plants in public and private developments.
- b. Promote education and outreach programs that increase awareness around the benefits of native plants.
- c. Encourage use of native plants on private property.

## **23. Increase water conservation measures**

- a. Support regional efforts to conserve water.
- b. Support policies, ordinances, and codes that promote water conservation.
- c. Promote education and outreach programs to engage the community in water conservation practices.
- d. Promote the use of rainbarrel collection systems.

## **24. Implement policies and practices that treat rainwater as a resource and make use of it where it falls**

- a. Support policies, ordinances, and codes that promote green solutions to Stormwater management.
- b. Encourage the community wide implementation of Best Management Practices (BMP's) for stormwater management that uses the power of plants and soil to absorb and clean rainfall runoff.
- c. Incorporate BMP's in capital improvement projects and ongoing infrastructure maintenance (e.g., green alleys, redesigned curbing; filter strips and bioswales; native vegetation; permeable materials for parking lots).
- d. Promote education and outreach programs to engage community (residents, business owners, schools, institutions) in implementing BMP's for stormwater management.

## **POLICY AND RESEARCH**

### **25. Track and publicize information on climate change and Village efforts to implement this Energy Efficiency Strategy.**

- a. Prepare an annual progress report on the Arlington Heights' Energy Efficiency Conservation Strategy.
- b. Track relevant regional, national and international best practices.
- c. Develop and adopt procurement guidelines for secured goods and services that contribute to a reduction of the community's greenhouse gas emissions.

### **26. Secure and leverage funding for Energy Efficiency initiatives.**

- a. Identify local, state and federal grants and resources to support and fund initiatives outlined in the Energy Efficiency Conservation Strategy.
- b. Identify and evaluate innovative and creative funding sources for implementing the initiatives and strategies outlined in the Energy Efficiency Conservation Strategy.
- c. Acknowledge exemplary community efforts and initiatives that support the reduction of Arlington Heights's greenhouse gas emissions.

### **27. Support local, state and national efforts to promote energy conservation measures.**

- a. Participate in local, state and national initiatives and programs that provide information, tools and resources for the implementation of the Energy Efficiency Conservation Strategy.
- b. Encourage and support greenhouse gas reduction efforts at the regional, state and national level.

## EDUCATION, PROMOTION AND PUBLIC RELATIONS

### **28. Encourage the community to take action around the Energy Efficiency Conservation Strategy.**

- a. Encourage residents, businesses, schools, park district, churches, and non-profits, etc. to develop working groups with the goal of helping to implement the strategies outlined in this Strategy.

### **29. Gain support from the largest Arlington Heights institutions and businesses for the implementation of the Energy Efficiency Conservation Strategy.**

- a. Support efforts to convene a meeting of the largest Arlington Heights institutions and businesses to discuss and gain support for the Energy Efficiency Conservation Strategy.
- b. Encourage participants to assign representatives to a working group that will be tasked with sharing resources, information and strategies for implementing the Energy Efficiency Conservation Strategy.
- c. Work with the Arlington Heights Chamber of Commerce to promote energy efficiency among its members.

### **30. Use Discover Arlington marketing programs to promote green practices.**

- a. Support community-based outreach efforts to disseminate information and resources at community and Village-sponsored events.

### **31. Connect residents, businesses and Village staff to workshops, training and lectures on green practices.**

- a. Support the development of a "Speakers Bureau" and encourage community members and businesses to participate as speakers in their areas of expertise.
- b. Develop and implement a "Green Training" initiative for Village staff to ensure understanding of and support for the Energy Efficiency Conservation Strategy.

### **32. Disseminate information to the community about the Village's Energy Efficiency Conservation Strategy.**

- a. Explore development of a green technology exhibit.
- b. Encourage residents, businesses, students and community groups to use the Zero footprint Arlington Heights online carbon footprint calculator.
- c. Explore conducting a survey of Arlington Heights residents to identify current knowledge, attitudes, and behavior related to climate change.
- d. Utilize the Village's website to promote Green technology and conservation efficiency.

## POTENTIAL PROJECTS

	Project	Prelim Cost	Funding Source	Timeline	Goals
<b>LIGHTING</b>					
	Scarsdale street light retrofit	\$156,450	EECBG	TBD	#14, #26
	Downtown North decorative retrofit	\$155,992	EECBG	TBD	#14, #26
	Downtown North high mast retrofit	\$11,470	EECBG	2009	#14, #26
	Downtown North new lights retrofit	\$17,000	EECBG	2009	#14, #26
	Downtown South decorative retrofit	\$403,744	EECBG	TBD	#14, #26
	Downtown South high mast retrofit	\$48,000	EECBG	2010	#14, #26
	Village Hall site retrofit	\$36,704	EECBG	TBD	#14, #26
	Village Hall surface lots retrofit	\$22,940	EECBG	TBD	#14, #26
	PW Garage high efficiency fixtures	\$62,430	EECBG	2010	#14, #26
	Install light sensors in other Village buildings	TBD	TBD	TBD	#9, #14
	Fire Station No. 3 high efficiency fixtures	\$19,584	EECBG	TBD	#14, #26
	Fire Station No. 4 high efficiency fixtures	\$19,584	EECBG	TBD	#14, #26
<b>SOLAR</b>	Downtown parking garage solar photovoltaic preliminary engineering	\$20,000	EECBG	2009	#14, #16
	Solar bike shelter	\$150,000 \$30,000	CMAQ EECBG	2010	#4 #14 #16
	Public Works solar panel @Hanson Center	\$300,000	EECBG	2010-2011	#14 #16
<b>VEHICLES</b>	Purchase Hybrids (as replacement schedule allows)	\$14,000	EECBG 25%		#3
	Differential	\$14,000	Fleet Fund 75%	2010	#7
	Bio-Diesel Incremental cost reimbursement	\$16,200 \$120,000	State IL Green FLEET Village General Fund	2009	#7 #15
	Electric plug-in preference parking	TBD	TBD	TBD	#3, #4
<b>ENERGY CONSERVATION</b>	Energy Audits for Public Buildings PW building LEED assessment	\$5,000	EECBG	2009	#14
	Small Business revolving loan	\$70,000	EECBG	2009-2011	#9, #29
	Residential revolving loan				#12
	Energy analysis	\$70,000	EECBG	2009-2011	#13 #28
	Energy analysis for water system	\$50,000	EECBG	2010	#14
	Affordable Housing	\$58,200	CDBG - Recovery	2009-2012	#6
<b>WASTE REDUCTION/ RECYCLING</b>	Residential rain barrel program	N/C	None	TBD	#23
	Develop latex paint pick-up program	N/C	None	TBD	#17, #18
<b>EDUCATION, PROMOTION &amp; PUBLIC RELATIONS</b>	Energy exhibit	TBD	TBD	2010	#32
	Village energy star guide/policy/fund	N/C	None	2009	#9, #11 #13, #25
	Business location incentives	TBD	TBD	TBD	

## **IMPLEMENTATION**

The Energy Efficiency Conservation Strategy sets forth a vision and course of action for the community to embrace energy efficiency and conservation measures that reduce the Village's carbon footprint and result in healthy improved lifestyles. This plan is just one step in a long range process which entails taking many actions necessary to implement the ideas and the goals and objectives set forth in this document. Over the past four decades, the Village of Arlington Heights has been very active in promoting and implementing green activities and initiatives and this strategy sets forth the roadmap to continue this endeavor. In order to implement this strategy, the Village of Arlington Heights will need to take implementation actions in the following major categories:

- Funding

The Village of Arlington Heights will identify, pursue, and submit requests for funding for energy initiatives.

- Policies, Codes and Legislation

The Village of Arlington Heights will support programs that require or provide incentives for energy efficiency and evaluate potential modifications to ordinances and codes that promote the goals and objectives outlined in this strategy.

- Promote and Educate

The Village of Arlington Heights will promote and educate the community to take action to implement climate change, work with local businesses, residents, and non-profit groups, and other stakeholders to ensure a greater understanding of the importance of climate change.

- Monitor and Evaluate

In order to fully implement the various components of the Energy Efficiency Conservation Strategy, the Village of Arlington Heights will prepare annual progress reports, monitor the efforts, and seek new opportunities for achieving best practices.

## **CONCLUSION**

The Village of Arlington Heights has been proactively involved in environmental issues for many years. The Village's environmental efforts encompass a broad spectrum of activities with the goal of improving environmental awareness and reducing its consumption of natural resources. Village initiatives are not based upon just one program, but several programs that incorporate a variety of energy saving options. From solar power, to reducing electric consumption; from the use of alternative fuels to everyday recycling, the Village is committed to conserving natural resources and protecting the environment now and into the future.

Many of the Villages programs implemented and proposed are not simply one-time programs, but long term sustainable programs requiring annual commitments to keep them going. Additionally, these programs transcend department boundaries requiring a collective effort by all Village Departments to promote and fulfill the environmental goals.

The Village of Arlington Heights is committed to continuing the environmental efforts outlined in this Energy Efficiency and Conservation Strategy for many years to come. It is this long term commitment to environmental issues and collective implementation by the Village which sets the Village of Arlington Heights apart as a leader in environment strategies.

With the recent infusion of federal stimulus money from the American Recovery and Reinvestment Act of 2009, the Village has developed a comprehensive plan to address environmental issues in the future. The Village of Arlington Heights' Energy Efficiency and Conservation Strategy consists of a broad spectrum of programs and projects designed to reduce fossil fuel emissions in a manner that is environmentally sustainable and, to the maximum extent practicable, maximizes benefits locally and regionally; reduces the total energy use of the Village and its stakeholders; and improves energy efficiency in the building, transportation and other appropriate sectors of the community. The successful implementation of the Village's EECS will create and/or retain jobs and stimulate the economy while meeting long term energy goals.

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