

AGENDA
GREENHOUSE GAS WORKING GROUP
May 25, 2022
3:00 P.M.
Village Hall, 850 Waukegan Road
Deerfield, IL 60015
Community Conference Room 206

1. Call to Order
2. Roll Call
3. Consideration and Approval of the April 13, 2022 Meeting Minutes
4. Discussion and Review of Draft Report and Appendix I
5. Other Items for Discussion
6. Adjournment

Greenhouse Gas Reduction Ad Hoc Working Group
Meeting Minutes
April 13, 2022

A meeting of the Greenhouse Gas Reduction Ad Hoc Working Group was held on Wednesday, April 13, 2022 at 3:00 pm at Village Hall. Chairperson Mary Oppenheim called the meeting to order at 3:00 pm.

Present:

Trustee Mary Oppenheim, Chairperson
Elaine Jacoby, Village Trustee (arrived 3:08 pm)
Victoria Street, Executive Director, DBR Chamber of Commerce
Art Wilde, Go Green Deerfield

Absent:

Don Anderson, Sustainability Commission Chairperson
Camilla Dadey, Go Green Deerfield
Bill Mertes, Sustainability Commission

Also present:

Andrew Lichterman, Assistant Village Manager/Director of Community Development
Bob Phillips, Director of Public Works and Engineering
Clint Case, Building and Code Enforcement Supervisor
Dan Nakahara, Planner

Document Approval

Commissioner Wilde moved to approve the minutes from the March 23, 2022 meeting. Commissioner Street seconded the motion. The motion was approved unanimously.

Public Comment

There were no Public Comments.

Business

1. Discussion of Possible Policies, Programs and Resources

Focus Area:

i. Food

Chairperson Oppenheim noted that as the group has previously discussed, food is a long term 2050 goal. The group discussed some ways to: (i) increase access to healthy, local food; (ii) increase the area of good gardens in the community; and, (iii) support plant-based diets.

In an effort to increase access to healthy food the group discussed opportunity for a year-round farmers market. It was noted that this requires a lot of resources and only certain seasonal vendors would be able to participate. It was noted that St. Gregory's Church already has a winter market at the consensus of the group was to find ways to partner with their market rather than the Village creating a competing event, at least in the short term.

Ch. Oppenheim reported that the questions of community gardens has come up many times over the years. She noted that the Village does not have the open space to support this initiative and staff typically refers these suggestions to the Park District, as they are better suited to offer publicly available open space. Additionally, it was suggested that the houses of worship could offer community garden. It was noted that for many years, Zion Luther Church had a community garden but that is no longer the case due to their recent redevelopment. Mr. Lichterman concurred with the suggestion and noted that we should leverage partnerships with the Park District and houses of worship if we think there is value in a community garden. He also pointed out that the community is mostly single-family homes with backyards and space for a person garden. This type of land use makes typically more sense in high density communities where people do not have their own green space on their property.

The group discussed ways to support plant-based diets. The group was in favor of promoting education around the benefits of eating plant-based meals. This could include campaigns such as Meatless Mondays. The group also discussed ways to possibly incentive and attract plant-based restaurants to open in the Village. This could include waiver or reduction of business licenses for plant-based restaurants. Ch. Oppenheim noted this is a low-cost incentive that may help the Village stand out when attracting a plant-based restaurant. Commissioner Street noted that there are some concerns with offering this type of incentive to only plant-based restaurants, as it creates inequities and could result in a negative reaction from other restaurants in the Village.

The group acknowledged the Village has little influence over which farmers large institutional buyers make their purchases from. Ideally, purchase would be made locally from farmers in the state of Illinois. The group will continue to advocate for this position but again did not identify specific ways to influence this behavior at this time.

Ch. Oppenheim noted that the strategies and tactics that have been identified will be captured in the final report. Food is a 2050 objective but that does not mean that certain actions cannot start now.

2. Other Items for Discussion

Mr. Lichterman noted that staff will begin drafting the report and the group will have time to review and comment on the draft at the next two meetings. The final report will be presented to the Village Board on June 6. The report will identify key objectives for the Village Board to endorse but the specific strategies and tactics will come back to the Village Board for further consideration.

Greenhouse Gas Reduction Working Group

April 13, 2022

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Adjournment

There being no further business or discussion, Commissioner Jacoby moved to adjourn the meeting. Commissioner Wilde seconded the motion. The motion passed unanimously and the meeting was adjourned at 4:34 pm.

Respectfully submitted,

Andrew Lichterman

Assistant Village Manager / Dir. of Community Development

ENERGY

DRAFT

During the Working Group’s analysis, discussion of energy consumption was bifurcated into: (1) electricity generation and (2) natural gas generation. Electricity accounts for 36% of the total community-wide carbon footprint, or 155,281 MTCO2 for the base year 2017. Due the substantial impact electricity consumption has on the overall carbon footprint; the Working Group primarily focused their discussion around strategies and tactics that would achieve the **objective of converting 100% electricity to renewable sources by 2030.**

STRATEGY		Responsible Stakeholder
Use Building Energy More Efficiently		
TACTICS	Conduct energy audits and retrofit municipal buildings, facilities, and street lights for maximum efficiency	    
	Explore opportunities for high performance and net zero new construction.	
	Establish a policy requiring ENERGY STAR appliances for all new Village equipment purchases.	

STRATEGY		Responsible Stakeholder
Reduce Energy Consumption		
TACTICS	Power down equipment when possible.	  

ENERGY

STRATEGY		Responsible Stakeholder
Advance Renewable Energy		
TACTICS	Install and operate renewable energy systems in municipal buildings and facilities	
	Explore use of power purchase agreements, leasing and other strategies to finance renewable energy systems	
	Procure renewable energy for public facilities	
	Collaborate to provide access to community solar	

STRATEGY		Responsible Stakeholder
Engage the Community in Clean Energy Practices and Efficiency		
TACTICS	Engage residential and commercial property owners to optimize building efficiency.	
	Leverage programs such as demand response, energy efficiency incentives, and PACE financing. (Property Assessed Clean Energy)	
	Partner with electric and gas utilities to promote energy efficiency programs to the community	
	Publicly recognize institutional and private buildings that achieve a specific energy efficiency targets.	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

ENERGY

STRATEGY		Responsible Stakeholder
TACTICS	<p>Enact Community-wide REC purchase program to offset all carbon sources of electricity (when feasible, purchase REC's that supply Northern Illinois power grid)</p>	
	<p>Adopt current Illinois Energy Conservation Code (IECC) and report compliance</p>	
	<p>Address all aspects of a building, including construction and energy resources</p>	
	<p>Use best practices in each category of green building standards, including aspects of LEED Platinum, Passive House (PHIUS), Green Globes, Living Building Challenge, American Institute of Architects (AIA) 2030, and Enterprise Green Communities.</p>	
	<p>Facilitate installation of renewable energy technologies (i.e. solar, geothermal) through adapting building and zoning codes such as achieving Sol Smart Gold Status.</p>	
	<p>Establish a Solar Ready Ordinance to require residential and encourage all new multifamily residential and commercial buildings to be solar ready based on Village's Solar Ready Guide, with flexibility for site suitability.</p>	
	<p>Consider policy options to transition away from natural gas to electrification.</p>	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

TRANSPORTATION

During the Working Group’s analysis it was determined that Transportation accounts for 11% of the total community-wide carbon footprint, or 45,750 MTCO2 for the base year 2017. Due to the substantial amount of GHG emissions generated from Transportation related sources and the potential impact we could have on mitigating this sectors carbon footprint the Working Group prioritized Transportation as a short-term 2030 objective. Specifically, the Working Group established the **objective of reducing Transportation related emissions by 55% by 2030.**

STRATEGY		Responsible Stakeholder
Reduce Dependence on Gasoline Powered Vehicles by Supporting Conversion of Municipal Fleet, Residential & Lawncare Equipment to Electric Power		
TACTICS	Advocate for broad adoption of clean fuel fleets i.e utilities, businesses, other agencies etc.	
	Replace retiring village fleet vehicles with appropriate zero or low emission alternatives (purchase 16 EV fleet vehicles by 2030)	

STRATEGY		Responsible Stakeholder
Support Safe and Effective Bike and Pedestrian Transportation That Promotes Sustainable Transportation Choices		
TACTICS	Provide bicycle parking at municipal facilities, business districts and transit stations and in neighborhoods.	
	Encourage residents and visitors to walk and bike	



TRANSPORTATION

STRATEGY		Responsible Stakeholder
<h2>Maintain a Diverse & Efficient Transportation Infrastructure</h2>		
TACTICS	Collaborate to provide alternative fuel infrastructure at public sites (install 3 EV stations by 2030)	  
	Incorporate trees and other green infrastructure elements into roadway design and maintenance for functionality and aesthetics.	
STRATEGY		Responsible Stakeholder
<h2>Integrate Sustainability Into Transportation Policies Programs & Regulations</h2>		
TACTICS	Enact and enforce anti-idling policies for public fleet vehicles	
	Designate no idling zones at schools, transit stations etc.	  
	Educate the community on the negative impacts of car idling	
	Adapt building codes to accommodate and encourage alternate fuel infrastructure (e.g. require all new multi-residence buildings to be capable of level 2 EV charging)	
	Adopt the use of zero-emission tools to replace two-stroke and four-stroke equipment by village services (e.g. retire and replace gas-powered mowers, blowers, etc.)	  
	Adopt policies to reduce or prohibit the use of gasoline-powered residential lawn equipment	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

WASTE

During the Working Group’s analysis it was determined that Waste accounts for 3% of the total community-wide carbon footprint, or 11,581 MTCO2 for the base year 2017. Due to the substantial amount of GHG emissions generated from Waste related sources and the potential impact we could have on mitigating this sector's carbon footprint the Working Group prioritized Waste as a short-term 2030 objective and established the **objective of reducing Waste related emissions by 66% by 2030.**

STRATEGY		Responsible Stakeholder
Establish Baseline Landfill Diversion Goals Based on Waste Stream Audits of Various User Types		
TACTICS	Conduct waste stream audits for municipal operations to identify waste reduction opportunities	
	Conduct waste stream audits for Residential and Commercial to establish baseline by waste source (mirror Lake County categories).	   
STRATEGY		Responsible Stakeholder
Enact Policies that Support Waste Diversion Goals Including Consideration for Hazardous & Non-Curbside Waste		
TACTICS	Collaborate with waste haulers for proper disposal of all types of waste i.e. hazardous, pharma, electronics, textiles.	 
	Create recycling/ reuse outlets to recycle targeted items not accepted by the curbside program. (eg: plastic bags, sheet plastic, shredded paper)	

WASTE

STRATEGY		Responsible Stakeholder
TACTICS	Provide year-round curbside recycling/ composting infrastructure community wide	
	Ensure infrastructure (i.e. bin size and accessibility) is consistent with supporting composting, recycling, landfill goals	
	Structure waste pricing economically advantageous to compost/ recycle, and economic disadvantage to landfill waste.	
	Direct Waste Hauler contract savings to fund Waste diversion policies & programs	
	Add public receptacles (Compost, Recycle, Landfill) in all Village buildings, including impactful visual locations that communicate the benefits/ consequences of each.	
	Add plastic film to curbside pick up program	
	Require commercial & multifamily recycling and composting, including making receptacles easily accessible and clearly visible to tenants	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

WASTE

STRATEGY		Responsible Stakeholder
TACTICS	Ban or discourage the use of products resulting in unmanageable waste (eg: plastic bags, plastic bottles, other single use plastics)	
	Include composting at Village sponsored public events (e.g. Harvest, etc)	
	Eliminate policy barriers to on-site composting.	
	Maintain construction and demolition recycling ordinance and establish incentives for reuse of homebuilding materials rather than disposal.	
	Require food service retailers to use biodegradable, compostable or recyclable packaging.	
	Require reusables for dine-in restaurants and sustainable take-out food ware. Requires reusables for dine-in restaurant and sustainable take-out food ware. Also eliminate single-use plastics in everyday use at Village facilities.	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

WASTE

STRATEGY		Responsible Stakeholder
EDUCATE AND ENGAGE THE COMMUNITY IN WASTE REDUCTION, DIVERSION AND RECYCLING		
TACTICS	Conduct at least 2 community wide events/ year to interact and educate residents on 3rd bin composting, plastics, recycling. (i.e. use large scale forums, such as shredding events, to interact with large groups of residents)	
	Partner with Park District and Library to leverage waste education events	
	Partner with school district 113 and 109 to develop a school wide annual "Zero Waste at Home" program.	
	Plan quarterly drop off events for Hazardous/ Non Curbside drop off waste (i.e. a) HH hazardous waste, b) pharma/ personal care waste, c) electronics waste, d) clothing/ shoes. NOTE - Waste Contract allows for 2X/year electronic collection event and 1X/year paper shredding.	
	Achieve waste diversion goal of 1.35 pcd by 2030	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

FOOD

The Working group placed great emphasis on bringing awareness to the environmental and health impacts of meat production and educating the community about the ways that eating a plant-rich diet can reduce our carbon footprint. It was discussed that globally, food is a major contributor to GHG emissions when accounting for elements of the food production process (notably the way land is utilized) and food distribution. The Working Group believed that **advocacy is the appropriate tool to help champion this effort opposed to government regulation.**

STRATEGY		Responsible Stakeholder
Educate & Engage Community in Personal & Environment Benefits of Plant Based Meals		
TACTICS	Establish and promote organic community gardens on public and private properties.	
	Host a series of educational programs for the public, in collaboration with community partners, on the benefits of plant-based diets.	
	Encourage food stores to promote local and organic foods.	
	Partner with retailers to discourage the use of toxic pesticides and herbicides in gardens.	

STRATEGY		Responsible Stakeholder
Facilitate Offering More Plant-Based Food Choices to the Public At-Large		
TACTICS	Encourage residents and community partners to have a completely vegetarian menu once a week (e.g. Meatless Monday campaign).	
	Strive to purchase local, organic, plant-based food for all Village-organized events.	
	Incentivize restaurants with plant-based or sustainably-produced protein menus to relocate/open in Deerfield.	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

ECOSYSTEM

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STRATEGY		Responsible Stakeholder
Increase & Sustain a Robust Tree Canopy		
TACTICS	Conduct a Village-wide Tree Canopy Survey and Carbon Sequestration Study.	
	Establish species diversity goals and set annual planting targets.	
	Create an invasive tree replacement program.	 
	Preserve the existing canopy via the Tree Preservation Ordinance.	 

STRATEGY		Responsible Stakeholder
Integrate Green Infrastructure & Resiliency Strategies Into Village Development & Planning		
TACTICS	Implement Best Management Practices (BMPs) to reduce water pollution.	
	Provide more habitats for native plants and animals including establishment of native garden registration on private property	   
	Implement processes that mimic the functions of nature (e.g. bioswales)	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

ECOSYSTEM

STRATEGY		Responsible Stakeholder
Facilitate Conversion to Sustainable Landscape Practices		
TACTICS	Increase the use of native species and pollinator restoration areas in landscaping	
	Replace turf with native plantings to withstand drought conditions and reduce the use of herbicides and pesticides.	
	Promote eco-friendly gardening practices.	
	Require native and drought resistant plants in Village approved landscape designs	
	Create annual "Bounty" Program offering a reward to residents for removal of invasive species.	

STRATEGY		Responsible Stakeholder
Decrease Emissions From Gas Powered Lawn & Garden Equipment		
TACTICS	Increase the use of electric lawn and garden equipment.	 
	Reduce the use of gas-powered lawn and garden equipment.	
	Encourage landscape contractors to transition to sustainable practices.	  



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



Encourage

ECOSYSTEM

STRATEGY		Responsible Stakeholder
TACTICS	Promote the annual Autumn Tree Walk & Education event.	
	Promote the Sustainable Yard Tour program.	
	Promote Farmers Market native plant/tree giveaway events in the Spring and Fall.	
	Partner with community groups to promote webinars on Sustainable Landscaping in winter months.	
	Create specific certifications and signage for community partners to display their sustainable landscape efforts.	



Municipal Buildings/
Facilities



Residential



Commercial



Schools



Park District



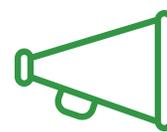
Encourage

ENERGY

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