

City of Warrenville

FY25 Sustainability

Highlights



Public Works Department
Hernandez-Galvan, Kassandra

City of Warrenville Elected Officials

Andrew Johnson, Mayor



John Lockett, Ward 1 Alderman
Stuart Aschauer, Ward 1 Alderman
Craig Kruckenberg, Ward 2 Alderman
Bill Weidner, Ward 2 Alderman
Judy Wilkie, Ward 3 Alderman
Kathryn Davolos, Ward 3 Alderman
Clare Barry, Ward 4 Alderman
John Paul (JP) Augustynowicz, Ward 4 Alderman

The City has taken significant steps toward combating climate change through various initiatives designed to reduce carbon emissions, preserve the environment, and safeguard natural resources. These efforts aim to ensure that residents enjoy a beautiful and safe community for generations to come.

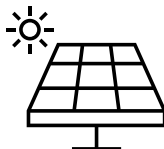
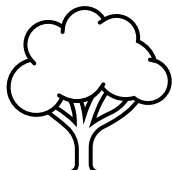
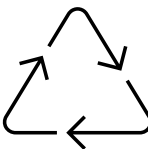
This status report offers an update on the actions undertaken within the Warrenville community. While it provides a comprehensive overview of these initiatives, it is not an exhaustive list. The purpose of this report is to enhance our understanding of current efforts and, in the long run, to evaluate their impact on the community.

Over the past year, Warrenville has focused on researching alternative fuel and energy sources that enhance energy efficiency. The City is also seeking opportunities to implement climate-friendly policies, programs, and services. Although challenges related to supply, cost, and time persist, these initiatives will continue to be pursued.

Longer term, this update will strive to track data, look for patterns, and develop benchmarks to assess progress, particularly to:

- Get a better understanding of Warrenville's emission sources, and effectiveness at minimizing them; and,
- Get a better understanding of the costs and benefits of providing services related to climate action what and steps have improved efficiency and effectiveness.

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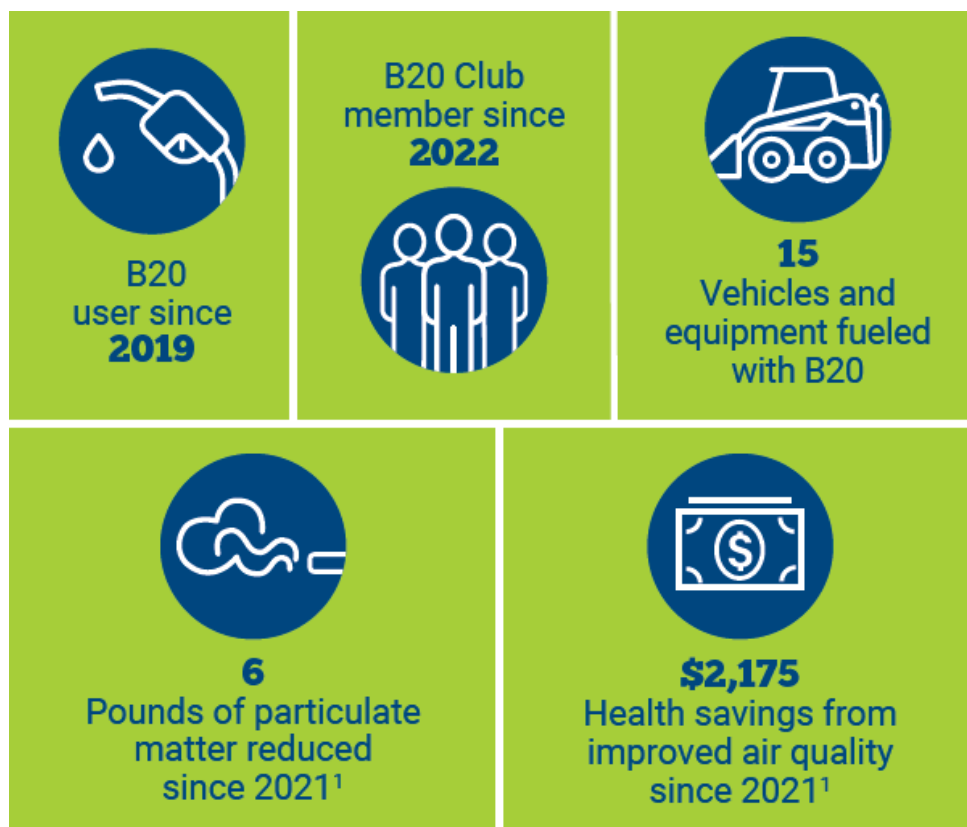
Fleet

B20 Club Member

In January 2022, the City of Warrenville became an official member of the B20 Club of Illinois, an American Lung Association and Illinois Soybean Association program. By using biodiesel, the City Fleet operation benefits human health and the environment, supports local businesses, and contributes to research in alternative energy sources. Biodiesel is efficient, reliable, and cost-effective.

Being a B20 Club member also means that the City will receive several customizable benefits throughout the year, including complimentary fuel testing and analysis, technical training, and access to industry experts. The Club also strives to evolve benefits over time to best fit Warrenville's needs.

Staff is dedicated to delivering quality, professional services to improve the community, and this includes exploring alternative fuel options to lower emissions, while also being fiscally responsible with City resources.



Developments in Alternative Fuel Options

2014	A fleet pickup truck was retrofitted from unleaded gasoline to compressed natural gas (CNG). Natural gas is free of lead and sulfur and produces less harmful emissions.
2018	City entered an intergovernmental agreement with the Forest Preserve District of DuPage County (FPDDC) to utilize the district's fueling facility, which supplies biodiesel fuel. The Public Works fleet currently has 15 vehicles that consume biodiesel.
2022	Staff aim to utilize the Capital Maintenance Replacement Fund to replace police vehicles with hybrid vehicles. Supply shortages have delayed vehicle replacements.
2023	Public Works Street Division purchased a new battery operated, Stihl RMA 510 self-propelled lawnmower. The walk behind lawn mower is built with a lithium-ion battery that eliminates fuel mixtures and exhaust emissions while aiding in low-maintenance lawn care. The motor features ECO Mode which automatically adjusts power use based on grass height. This conserves battery life and extends run times. The mower features a variable-speed setting which allows the operator to select the best speed for their needs and for battery conservation. This mower is recommended as an option for small to medium-sized yards under a half-acre.
2025	- Warrenville was selected to join the EV Readiness Program. This program helps local governments like Warrenville prepare for the growing demand for electric vehicles (EVs). Staff is working to make it easier for residents and businesses to switch to EVs by: - Simplifying permits for EV charging station. - Updating zoning and parking rules to support EVs - Engaging with the community to discuss EV needs and benefits - Training City staff on EV safety and technology. This program is all about improving access to clean transportation and creating a healthier, more sustainable future for Warrenville. - Per the City Council's directive, police squads will be replaced with hybrid vehicles whenever feasible. Under the new Enterprise Fleet Management agreement, the City currently has three hybrid vehicles in operation, with plans to order two more in FY26. Incorporating hybrid vehicles into the City's fleet will ultimately result in cost savings and contribute to environmental sustainability.

Water

ISAWWA Water Ambassador

Water Ambassador Program: City Achieves Gold Level Status- In February of 2025, the Illinois Section American Water Works Association (ISAWWA) confirmed that Warrenville had achieved Gold Level status again this year as a Water Ambassador. ISAWWA annual awards and program certifications are determined by the frequency and method of communications. For more information, visit:

<https://www.isawwa.org/page/waterambassador>.



Water Quality Report for Fiscal Year 2025

The City uses groundwater provided by four wells drilled into the Silurian–Devonian aquifer. An aquifer is a geological formation that contains water. The wells are drilled to an average depth of 300 feet. The location of the wells are as follows: Well 9 is located at 27W601 Warrenville Road, Well 10 is located at 30W194 Batavia Road, Well 11 is located at 4S255 River Road, and Well 12 is located at 2S900 Timber Drive. Warrenville homes normally receive a mixture of water from Wells 9, 10, 11, and 12 that utilize iron removal equipment in the production process, thus removing iron from the water before it enters the distribution system. The City has implemented a corrosion control program that uses blended phosphates to coat the interior pipe lining. Chlorine is added for disinfection, and fluoride is added to help promote oral health. A source-water assessment conducted by the Illinois Environmental Protection Agency (IEPA) indicated the ground water is not vulnerable to any contaminants. The City's most recent Water Quality Report can be found here:

https://www.warrenville.il.us/DocumentCenter/View/30209/CCR---2024---IL0430833---Warrenville_Final

Coal Tar Ban

In 2022, **City Council passed ordinance O2022-05, Title 3, Chapter 28, which bans the use of coal-tar products.** The ordinance took effect starting January 1, 2023. The **purpose of the ban is to protect people and waterways.** Coal tar is a known human carcinogen (USGS 2015) and toxic to aquatic life. Coal tar is the single greatest source of polycyclic aromatic hydrocarbon (PAH) contamination in the West Branch of the DuPage, which runs through Warrenville. To date, one violation on 7/13/2023 has been reported.

Hydrant Flushing

Twice a year, in the spring and fall, Utility Division staff flushes city fire hydrants, as a part of their routine maintenance, to ensure quality of water.

Hydrant Maintenance	2025	2024	2023
Hydrants Flushed	4,764	3,546	1,568
Hydrants Replaced	6	5	0
Hydrants Repaired	45	64	15

Water Conservation and Management

- Water bottle filling station, at the City Hall building.
- Low flow plumbing fixtures and faucet sensors in restrooms.



Utility Maintenance Task	2025	2024	2023	2022
Manholes repaired	47	37	79	100
Sewers-cleaned (feet)	1,000	250	2,000	1,700
Sewers- Mainline Televised (feet)	1,500	400	21,064	30,229
Average Monthly Water Pumpage (gallons)	39,872,692	36,481,834	37,225,833	35,473,000
Maximum Daily Water Production (gallons)	2,115,000	2,315,000	2,315,000	1,862,000

Salt Usage Monitoring

The Warrenville Public Works Department staff is dedicated to delivering high quality, timely, and equitable services to internal and external customers, which includes snow removal on public roads and on sidewalks around City buildings, for safe commuting during inclement weather. In turn, residents and businesses have come to expect and rely on this service to keep up with their daily responsibilities.

Additionally, staff this year refurbished a salt brine spray system, which was installed in one of the Public Works pickup trucks. This system has been utilized for pre-treating bridges and parking lots with salt brine, thereby conserving salt and enhancing safety on these surfaces. Pre-treating with salt brine effectively prevents snow and ice from adhering to asphalt and concrete, facilitating safer and more efficient removal.

Stormwater Management

Quarterly Facility Inspections

In 2022, Public Works staff began and **continues** to conduct quarterly facility inspections at municipal facilities, with the goal to minimize pollution from stormwater runoff and ensure compliance with Illinois Environmental Protection Agency (IEPA) requirements.

Energy Efficient Appliances and Equipment

As a policy, the City prioritizes purchase of items bearing the Energy Star certification, which indicates that the equipment reduces greenhouse gas emissions through efficient energy usage.

Year	Energy Efficient Appliances and Equipment that the City has Purchased
2020	A makeup air system was installed in the Public Works Garage. Installation of this system was covered by Coronavirus Aid, Relief, and Economic Security (CARES) Act money.
2021	A high efficiency HVAC system was installed at the Police Department, replacing a 20-year old system, and in the fall, an HVAC installation for the City Hall A/V room was completed. The new units circulate fresh air needed to control the room temperature and prevent equipment from overheating, and in general improve climate control for staff work environments. Updating and maintaining an HVAC system minimizes energy usage and reduces the building's overall carbon footprint.
2024	High efficiency garage doors (entry/exit) were installed at the Public Works garage. These doors are 25% more efficient than the doors installed when the building was originally constructed. Other benefits to these new doors are: - No metal-to-metal contact reduces wear on the door panel and offers fast, quiet operation. - Opening speeds up to 60 inches per second allow for improved traffic flow and a reduction in heat loss during the winter. - Counterbalance system, patented spiral design, and AC drive reduce wear and increase door longevity, with minimal preventative maintenance. - Double walled aluminum slats, integral rubber weather seals and heavy-duty hinge system provide solid security.
2025	Three York rooftop HVAC units were installed at the Public Works building. These units are known for using environmentally friendly refrigerants which have a lower Global Warming Potential (GWP) than older refrigerants. Other benefits to these new units are: - High efficiency: These units offer up to 23% greater part-load efficiency and higher Integrated Energy Efficiency Ratio (IEER) ratings than some competitors. - Exceeding DOE standards: Exceed the Department of Energy (DOE) 2023 efficiency standards. - Scroll compressors: Uses scroll compressors, known for their efficiency and reliability. - Variable speed drives: Variable speed drives on compressors and fans can further enhance efficiency.

Solar

Solar Project at Well Site #13

Another solar project the City has planned is at the proposed Well No. 13 in TIF District 4. Solar will be constructed as part of the water treatment building, which will be the last component of that site to be constructed. Tentatively, staff anticipates the building to be constructed in calendar year 2025.



Trailhead Project

The Trailhead building was constructed solar ready. Solar panels on the Trailhead building were installed in October of 2024.



Trees

Parkway Tree Management and Planting Plan and Update on 2023 Urban & Community Forestry Grant Program

The City of Warrenville was awarded a \$19,000 grant to help replace parkway trees lost to the invasive emerald ash borer.

This grant, provided by the Illinois Department of Natural Resources and the USDA Forest Service Eastern Region, and administered by The Morton Arboretum's Chicago Region Trees Initiative (CRTI), helped the City plant **280 new trees** in the Summerlakes and Fox Hollow subdivision in FY25.

These new trees not only replace the ones lost to emerald ash borer but also help improve air quality, manage stormwater, and make our neighborhoods more beautiful.

In addition to the new trees, staff installed tree diapers with the new trees. Tree diapers absorb rain or irrigation water and slowly release it back to the tree when the soil dries. The tree diaper will absorb any extra water and release the extra water when the soil dries.



Previous tree climate initiatives completed:

- The Chicago Region Trees Initiative (CRTI) Municipal Canopy Summaries reported from 2010 to 2020, Warrenville canopy has increased from 30% to 36% with gains across all land types.
- Warrenville could potentially increase its canopy cover up to 81%.
 - o The types of land with the highest percentage of canopy coverage is found in natural areas and vacant properties, and the lowest canopy cover is by utility and commercial properties.
 - o Residential and commercial properties could have the greatest impact in expanding canopy.
- Strategies to consider: Residents could be encouraged to plant more trees through giveaways, or ordinances to encourage preservation. Commercial property owners could be encouraged to plant more trees through tree adoptions, ordinances that encourage preservation, or storm water fee rebates for properties that have more canopy.
- Warrenville has more canopy cover than its neighbors and less gray infrastructure (i.e., buildings, roads, rails, paved surfaces) than most neighbors. See next page for visual comparison.

Land Cover in Surrounding Communities

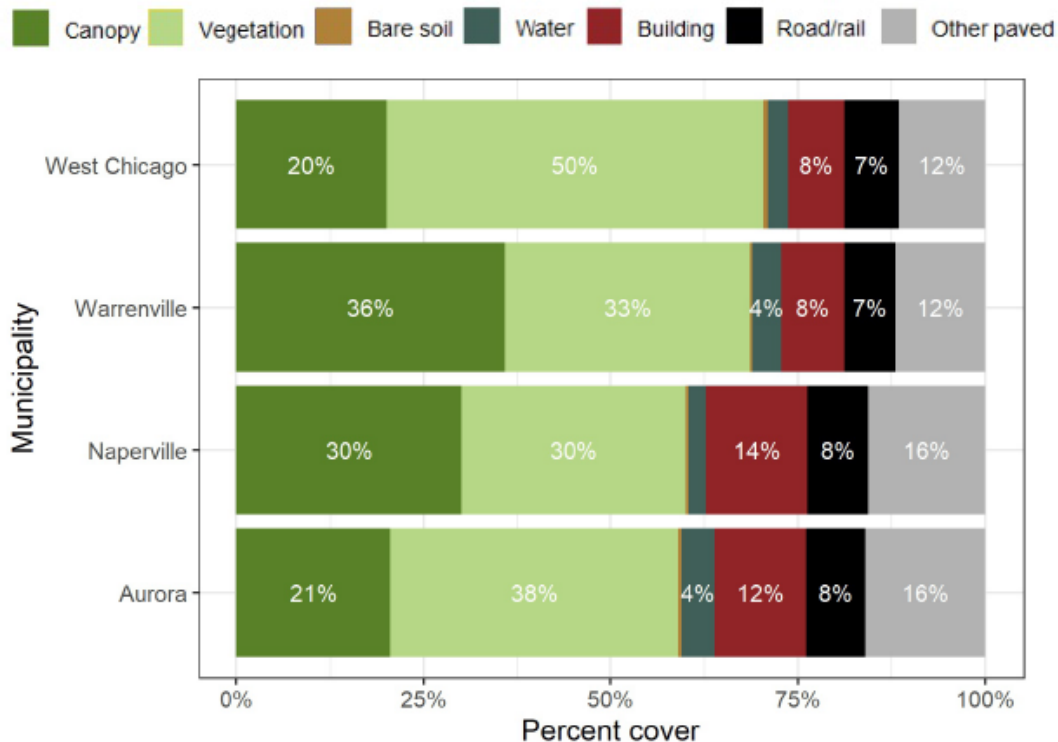


Figure 7: Comparison of land cover of Warrenville and its neighbors.

Arbor Day - Tree Giveaway and Planting

Since 1988, the City has held an Arbor Day event, with EAC taking over planning and organization in 2006. The Arbor Day event is typically the last Saturday in April. During the event a community tree is planted, and free tree saplings are given away, to encourage tree planting around the community. This year a variety of saplings were given away- White Dogwood, River Birch, Redbud, Basswood, Swamp White Oak and Shagbark Hickory.

Tree City USA Designation

The City of Warrenville is designated as a Tree City USA by the Arbor Day Foundation and has **held that title for the past 38 years, since 1986**. The certification provides recognition of the City's efforts in promoting a healthy, sustainable urban forestry program.



Initiatives To Mitigate Consumption and Waste Production

The following summarize efforts the City has made to reduce pollution and emissions from the decomposition of waste.

Solid Waste and Recycling

The City of Warrenville is responsible for residential garbage, recycling, and landscape removal. Part of the service contract with Groot, Inc. includes offering food scrap hauling, which started in 2021. In Dupage County's *2024 Solid Waste & Recycling Annual Report*, it was noted that In December 2024, the County is working on launching Recycle Coach, a new online widget and app that will support recycling education throughout the State of Illinois. It is funded by the Illinois EPA and has been offered at no cost to all local governments.

Public Recycling Events

Since 2009, the Police Department has held a yearly shredding event every May. In 2018, electronics recycling was added as an additional service. The event gives residents the opportunity to recycle items such as computers, modems, routers, and office equipment, among other things. A summary of the amount of paper shredded is provided in the following table.

Event Date	Amount Shredded and Recycled
05/06/2023	7,680 lbs.
05/04/2024	5,900 lbs.
05/03/2025	9,060 lbs.

Battery Recycling

In 2011, the City's Environmental Advisory Commission began a battery recycling program, allowing the public to recycle dry-cell type batteries at drop-off boxes located at City Hall. The batteries are disposed of in an environmentally friendly manner, preventing harmful chemicals contained in batteries from polluting the areas around garbage and landfill sites.



TOTALS POUNDS OF BATTERIES RECYCLED

2025	Battery Type: Alkaline, Ni Cd, Ni MH, Lead, Li Ion, Lithium & eScrap	1253 lbs.
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Prescription Drug Recycling Drop Box

In 2017, the Police Department installed a prescription drug recycling box in the lobby. Items recycled are picked up every two weeks. The box was provided by a grant from the DuPage Foundation and residents may place unwanted medications in the drop box during regular lobby hours.

Year	Total Pounds Recycled
2023	212
2024	828
2025	900

City Advisory Commissions

In 2006, the City Council established two advisory commissions that address issues related to climate change: the Bicycle and Pedestrian Advisory Commission (BPAC), and the Environmental Advisory Commission (EAC). Both organizations hold various events, programs, and initiatives throughout the year that reflect the City's commitment to act against climate change.

As previously mentioned, BPAC encourages bicycle commuting and walking in lieu of motorized transportation. BPAC has been involved in the development of the Bikeway Implementation Plan, designation of being a Bike Friendly Community, promotion of bike and walk to school events, has routinely organized an annual Bike Rodeo, and provides education on bicycle safety and encourage bicycling for commuting as well as recreation.



EAC promotes programs and initiatives geared towards enhancing environmental awareness and conservation within the city. EAC holds an Arbor Day event in late April, at which free tree saplings are given away to encourage tree planting around the community. EAC has been involved with numerous initiatives, such as river clean-ups, battery recycling programs, storm drain markers, and education campaigns.

EAC has participated in the DuPage River Sweep (hosted by the Conservation Foundation) from 2015 to 2019, and 2021 to 2025.



Other Initiatives

Mosquito Abatement and Larvicide Program

The City ceased a mosquito abatement program in 2000, following an advisory referendum on raising property taxes to pay for the spraying. City also was responding to some residential concerns about the potential health risks posed by the chemicals that are used during the spraying process. Further, the effectiveness of spraying pesticides is limited since Warrenville is surrounded by open spaces, forest preserves and Fermilab.

Public Works staff continues to stay informed on mosquito abatement best practices and has continued to apply Natular XRT Mosquito Larvicide in storm drains. Natular is the first public health larvicide in the IRAC Class 5 chemical classification. It offers a distinctive mode of action effective against all four developmental stages of mosquito larvae.

Old Town Redevelopment Site:

Request for Proposals (Current): A Request for Proposals to develop the site based upon the City's preferred redevelopment plan was released on April 10.

IEPA Project Closeout: The City received No Further Remediation letters from the LUST and SRP programs.

Phase 1 and Utility Improvements Construction Project (Completed June 2024) : Martam Construction was selected as the low bidder to construct the OTRS #2 Phase 1 & Utility Improvements project. This work included extending watermain north along River Road, west along Warrenville Road and connect into the existing watermain on Batavia Road, re-routing sanitary and water services, minor roadway curb and gutter replacement, new 8' sidewalk along the north side of Warrenville Road, remediating the old gas station site to residential IEPA standards, construction of a parking lot and a compensatory storage area.

