



City of Eau Claire

Green Tier Legacy Communities 2014 Annual Sustainability Report



I. Introduction

The City of Eau Claire is pleased to present our third Green Tier Legacy Communities (GTLC) annual sustainability report to program partners: the Wisconsin Department of Natural Resources (WDNR), 1,000 Friends of Wisconsin, League of Wisconsin Municipalities, Municipal Environmental Group – Wastewater, Center on Wisconsin Strategy, Wisconsin Energy Conservation Corporation, and the other charter legacy communities.

Cities are at the forefront of the sustainability movement and have a powerful ability to effect change. In agreement with our Mission Statement, the City of Eau Claire works hard to bring sustainability practices into its operations and to the public.

Mission Statement:

To provide for the common good and deliver services essential for a safe, sustainable, and engaged community.

Our first annual sustainability report was conducted in 2012, the baseline year. From the highlights and graphs contained herein, it is evident of City’s improvement over the past three years. One of our biggest accomplishments in 2014 was winning the National Civic League’s Annual All-America City Award for a healthy community. The honor was largely given for our efforts to remediate downtown polluted land into a new riverfront park, farmers market and mixed use development; for promoting a strong spirit of civic engagement in public matters; and for creating a health chapter in the City’s Comprehensive Plan, that deals with how the built environment affects population health. These projects represent the work of many partners over the course of decades and we are proud of the achievement that recognizes this level of effort to create a livable and thriving community.



All-America City Award Celebration

2. Accomplishments

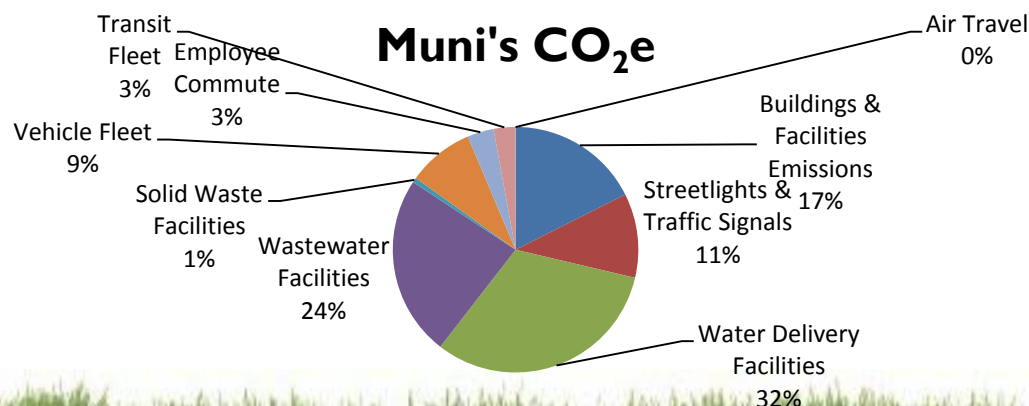
This section highlights what the City of Eau Claire accomplished in 2014. When reading the following, it is important to understand that sustainable development is broadly defined as “meeting present needs without compromising future needs” (*Brundtland Commission, 1987*) - therefore this report focuses on environmental protection but also some economic and social performance as well. Many corporations call these “triple bottom line” reports, corporate sustainability reports or corporate responsibility reports. This report does not capture everything under this broad view but for a fuller discussion reading the City’s Major Accomplishments Report 2014 would be useful.



Although the below is arranged by departments, depending on the project or program, the majority of work towards sustainable development is carried out through a high level of coordination between departments and or elected officials. A 12-member interdepartmental Green Team continues to help facilitate coordination and works on specific projects for the organization. The City’s new Advisory Commission on Sustainability was created in late 2013 and began its first year of activities in 2014.

Sustainability Initiatives by City’s Green Team

- Sent out monthly Green Tips to employees on how they can be sustainable at work and at home.
- Created a Green Office Week for February. About thirty employees reported completing actions for all five days. Had four TV news stories featuring the City’s work.
- Facilitated a Farm-2-Work Program with 15 employees participating.
- Completed City’s bi-annual report showing our total municipal operation’s contribution to greenhouse gas emissions. The carbon footprint for municipal operations for year 2013 was estimated at 30,815 metric tons of carbon dioxide equivalents (CO₂e). This resulted in a 7.5% increase or 2,301 metric tons of CO₂e increase compared to the baseline year, 2011.



- Improved individual recycling at employee workstations with providing additional blue recycling containers.
- Partnered with the WI Green Building Alliance to run the “Get Outdoors Campaign” for 30x30 (30 minutes in 30 days) during the month of June for our employees.

Eau Claire Advisory Commission on Sustainability

- First met in May and created the commission’s first annual work plan in July 2014.
- In partnership with the City’s Utilities Division and UWEC students, placed stormwater quality decals on storm drains in Sky Park Business Park and around the UWEC campus.
- Began work on a honeybee-keeping city ordinance to protect food supply.
- Began work on a community survey to gauge level of interest in using community solar.
- Issued a Green Building Proclamation recognizing eleven exceptional building owners for energy efficient and environmentally-friendly buildings.
- Worked on the sustainable bag campaign “pre-educational” phase.

City Manager’s Office

- Provided administrative support to the All-America City Award application team, which resulted in successful award recognition.
- Coordinated and negotiated a development agreement for Haymarket Landing, the mixed-use building portion of the Confluence Project.
- Continued online Citizen Engagement program, E2C2.
- Participated in discussions and facilitated a plan to adjust the site plan for a proposed parking structure by moving the footprint of the structure closer to RCU and JAMF to allow for additional space for redevelopment.
- Organized the annual United Way campaign effort for employees.

Information Services

- Upgraded and replaced various Public Safety Systems, including L3 system to a virtual environment.
- Added WiFi to Owen Park, Phoenix Park, Soccer Park, Carson Park, Fairfax Concession, and Fairfax Ball Fields.

City Attorney

- Provided legal and drafting assistance on the revision of the Fair Housing ordinance.
- Continued negotiations with Advanced Disposal on expansion of Seven Mile Creek Landfill.

- Discussed, negotiated, and drafted resolutions, real estate documents and development agreements regarding the West Bank (Cannery District) redevelopment project.

Community Development Department

- Staffed the new Advisory Commission on Sustainability.
 - Coordinated City's Green Team's activities (Green Office Week, Farm-2-Work, etc.)
 - Staff to DNR's Green Tier Legacy Community program. Hosted June quarterly meeting.
 - Updated annual sustainability report and bi-annual carbon footprint report.
 - Created a City sustainability intern position that receives UWEC class credit.
 - Obtained a State Office of Energy grant to retrofit exterior lighting with LEDs at Central Maintenance Facility.
 - Developed access and circulation standards for pedestrian and bikes on site plans.
 - Preserved Eau Claire as a viable passenger rail route in WisDOT's new State Rail Plan.
 - Won American Planner's Association WI Award for Plan Innovation – Health Chapter.
 - Assisted in organizing the Eau Claire Healthy Communities inaugural Built Environment (BE) Fit Forum, which promoted places designed for healthy and sustainable living.
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- Approved five loans for a total of \$256,000; two Regional Business Fund Micro Loan Fund Loans for \$50,000 and three Revolving Loan Fund Loans for \$206,000.
 - There were 14 new businesses that opened in the Downtown district.
 - Our City Spring Clean-Up had a record number of volunteers; more than 400 signed up.
 - Assisted two homebuyers with direct homeownership assistance.
 - Rehabilitated 12 owner-occupied residential units, including the abatement of lead in 10 of those units and the abatement of asbestos in one unit.
 - Thirteen 13 low/moderate homeowners received HOME Weatherization Grants (9 – Eau Claire Housing Division & 4 – Western Dairyland).
 - Provided funding to assist public services to persons facing: family violence, families needing case management to care for their children, emergency shelter as a result of homelessness, primary health care services from the Free Clinic, food from the food pantry and meals from the Community Table soup kitchen, rental assistance with the Tenant Based Rental Assistance (TBRA) program, Hmong households tenant/landlord counseling, women and minorities received employment and business start-up services.

Finance Department

- Created TIF #10-South Barstow Confluence Project to eliminate blight by providing financing for improvements to Haymarket Plaza, developer incentives for a mixed-use development and a Community Arts Facility.
- Implemented online bill pay for electric, gas and cell phone services, which decreased transactions keyed in by hand and provided better information to departments.
- Received a DNR grant for the acquisition of 97 West Madison Street for redevelopment and a new trail.
- Received a Site Assessment Grant for demolition of former Post Office for a parking ramp and redevelopment liner buildings in the downtown.
- Eight business loans were issued in 2014.

Fire Department

- Modified and expanded the working relationship among Eau Claire Fire and Rescue, Township Fire Department, and Altoona Public Safety. Updates were made to the mutual aid and automatic aid agreements that ensure effective coverage for both fire and EMS calls in all response areas of these cooperating agencies.
- Began process of transforming the fire prevention division from a vision of primarily fire prevention to addressing overall community risk reduction.
- Revised fire safety presentations, investigation practices and procedures.

Health Department

- For the first time, the Health Department and Healthy Communities collaborated with local hospitals and non-profits in Eau Claire and Chippewa counties to create one community health assessment.
- Participated in community efforts around promoting access to health insurance with at-risk populations.
- Four counties (Eau Claire, Pepin, Dunn and Buffalo) received federal grant to explore the potential/actual health impacts of climate change.
- Inspected more than 700 City of Eau Claire licensed facilities for health and safety issues.
- Coordinated and administered a radon awareness marketing campaign that included providing 215 low-cost test kits.
- Tested recreational water once weekly at 6 different beaches to ensure public safety.
- Acquired a grant to test the local deer tick population for Lyme disease and develop new public health interventions.
- Began monitoring mosquito populations and species to track West Nile Virus.
- Worked closely with neighborhood associations and housing partners to maintain safe and attractive neighborhoods.

- Facilitated Pack it up, Pass it on (University of Wisconsin Student Move Out Projects) to support community environmental health and safety.
- Received a Department of Transportation Kids Ride Safe grant to provide car seats and education to 64 WIC families without resources to purchase safe newborn car seats.
- Conducted successful school-based Adolescent Health Clinics with free vaccine in 7 Eau Claire County middle schools as an emergency preparedness exercise, providing 269 immunizations, 423 flu shots and 8 scoliosis screenings for 560 middle school children.
- Served more than 3,200 mothers, infants and children in the Women, Infant, and Children's program to support healthy pregnancy and early childhood growth and development.

Human Resources Department

- Conducted quarterly supervisor trainings, MLK Day training, service awards, etc.
- Held health promotion meetings/events and implementation of the Affordable Care Act.
- Completed Environmental Closure of a site with WDNR- Wayne's Service Center.
- Conducted safety Training- Bloodborne Pathogens, Bucket Truck Safety, GHS-Global Harmonizing System for Chemical Safety, Cold Stress, Heat Stress, Distracted Driving, Lockout/Tagout, PPE, Trench Hazards and Safe Work Zones.
- Handled three DSPS inspections of the CMF mechanical shop, Water Treatment and Wastewater Treatment plant inspections.

Library

- Welcomed 455,306 visitors to an educational and recreational destination for people of all ages and backgrounds and circulated 887,512 items to customers.
- Offered 453 programs for children and teens with 23,310 in attendance.
- Continued to grow and improve online media services (music, books, audiobooks, etc.).
- Facilitated 87,016 uses of public Internet computer workstations that allowed customers to contact a government agency, fill out a job application, do their taxes, e-mail family and friends, and do research using premium databases and other resources.
- Provided materials access to 195 customers confined at home or in a health-care facility due to illness, physical handicap, disability or having a lack of transportation.

Parks, Recreation, & Forestry Department

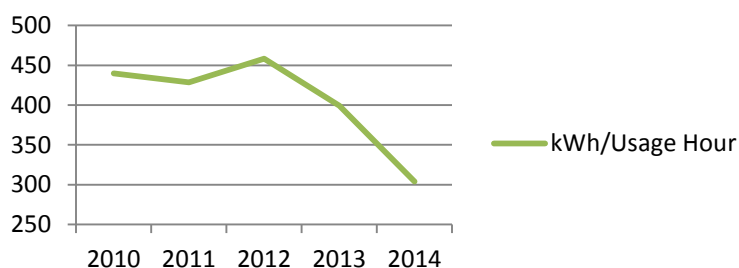
- Eau Claire Parks, Recreation and Forestry Department was named a National Recreation and Parks Association Gold Medal Finalist.
- New recreational equipment, including playground equipment, pickleball courts, and ice skating rinks installed at several parks. Renovation of trails, restrooms, and shelters completed at several parks as well.

- Invasive plants removed at North West Community Park and McDonough Park.
- Implemented goose buffer areas to discourage geese at Riverview, Mt. Simon, and Carson Park and completed Canada Goose Roundup with Wildlife Services assistance.
- Harvested invasive vegetation at Half Moon Lake.
- Over seeded 4½ acres of turf in each cemetery.
- Recycled over 4,500 Christmas trees.
- Planted over 700 trees.
- Partnership established with Mayo Health Systems to promote wellness and activities.
- At Hobbs Ice Arena, the graph illustrates the facility is getting more use while at the same time electrical consumption is steadily decreasing. This is due to energy monitoring and operation

strategies that have resulted in significant dollars saved on electricity:

For example, in 2012, \$192,000, in 2013, \$209,000, and in 2014 \$184,000. Also in 2014, staff replaced an ice refrigeration compressor saving over \$15,000.

Hobbs Ice Arena Energy Efficiency



Police Department

- Crime Analyst introduced crime forecasting strategies to reduce crime and was awarded 1st place in the crime mapping category by the International Association of Crime Analysts.
- Implemented a strategy to reduce the City's property crime by better utilization of the Automated Property System (APS) ordinance.
- Improved the operations of the Chippewa Valley Regional Computer Forensic Laboratory (CVRCFL).
- Established a wellness program for Detectives.

Public Works Department

- Completed the Water Supply and Water Treatment Evaluation Study. The evaluation included a pilot test of the well water to determine the most effective chemical and filter method options.
- Collected 162 water samples on utility construction projects for bacteriological testing.
- Continuing to work with Focus On Energy to complete and process rebate incentives for lighting, VFD motor controls, and methane boilers.

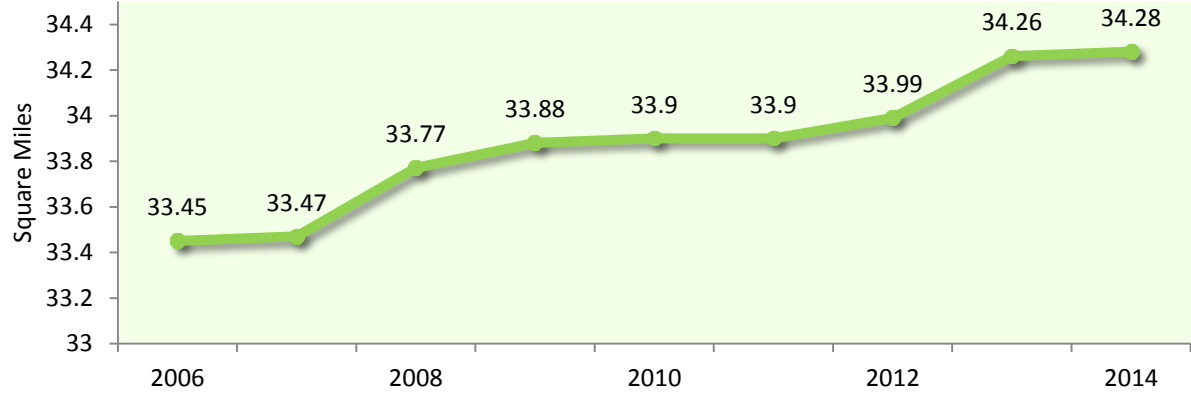
- Installed two new variable frequency drives (VFDs) to the Jeffers Road Booster Station.
- Contractor jetted the screens and rebuilt the pumps at Wells #17 & 21.
- Repaired and replaced HVAC system with energy-efficient equipment and computer-operated controls in City Hall's East Wing.
- Replaced both heating boilers at City Hall with energy efficient models.
- Asbestos abatement in City Hall.
- Central Maintenance HVAC upgrade included installation of a computerized HVAC system and replacement of 14 heat pumps.
- Average shop vehicle mechanic efficiency for the year was 75%.
- Made available to the public a bus tracking app (ectbustracker.doublemap.com) that helps users see where the bus is located and the approximate wait time for it to reach their stop.
- City was swept a total of 6.2 times. 9,469 total lane miles were swept including: 4,332 cubic yards spring sweeping clean-up, 1,078 cubic yards of summer clean-up, and 6,046 cubic yards of fall leaf clean-up. Half Moon Lake water shed area was swept a total of 15.75 times.
- Chaired Chippewa Valley Storm Water Forum, a group of 16 local jurisdictions working on urban storm water runoff issues and education in the lower Chippewa River Valley.
- Installed a ROAM lighting system at 1st and 2nd Avenues, which allows the City to dim the LED lighting system and monitor electrical usage.
- Twenty-six sharrows (bike symbols) and new bike lanes were painted.
- Installed High Intensity Activated Crosswalk (HAWK) Signals on Menomonie Street at multi-use trail crossing.



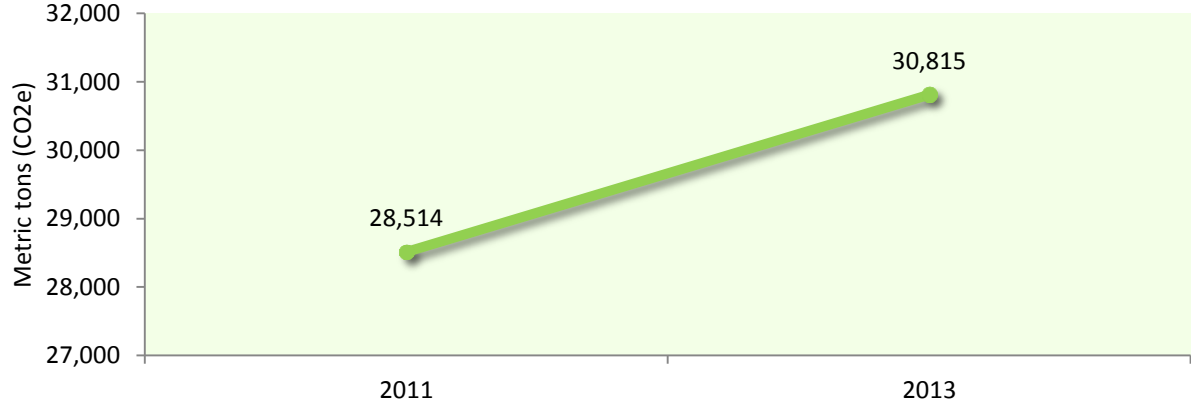
High Intensity Activated Crosswalk (HAWK) Signal

3. By the Numbers

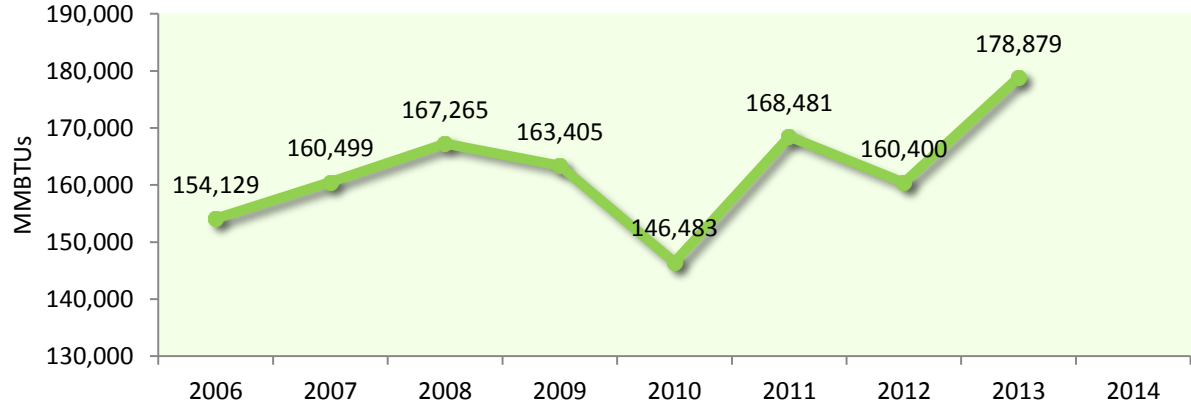
City Land Area



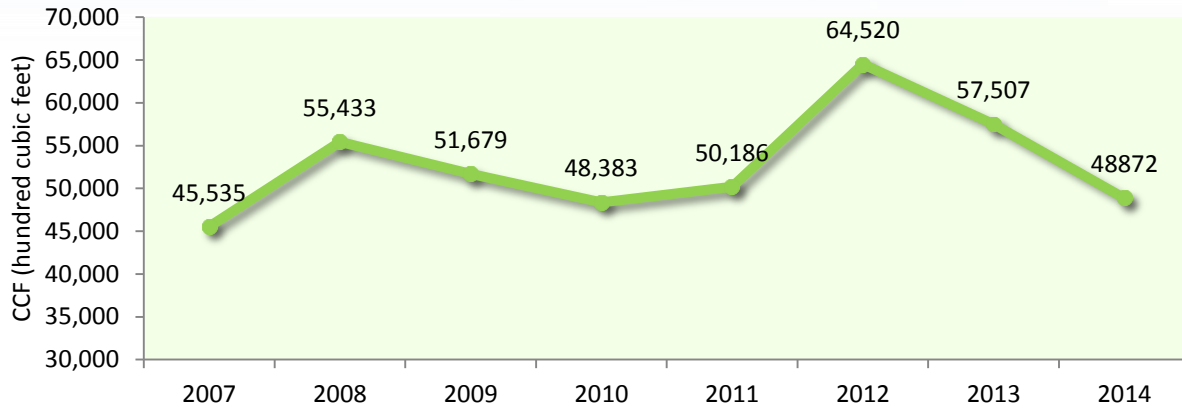
Bi-annual Report of Carbon Emissions



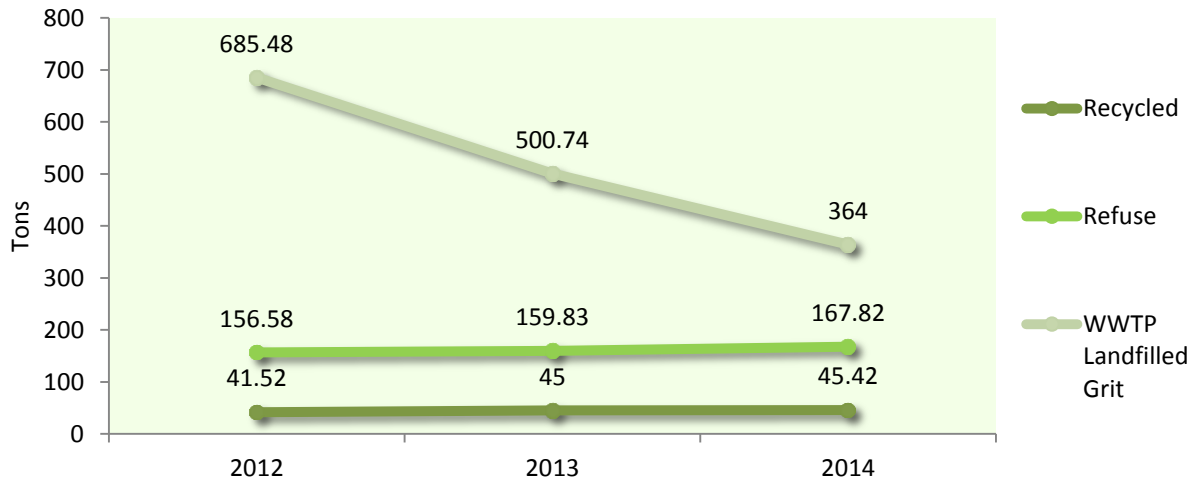
Estimated Energy Usage



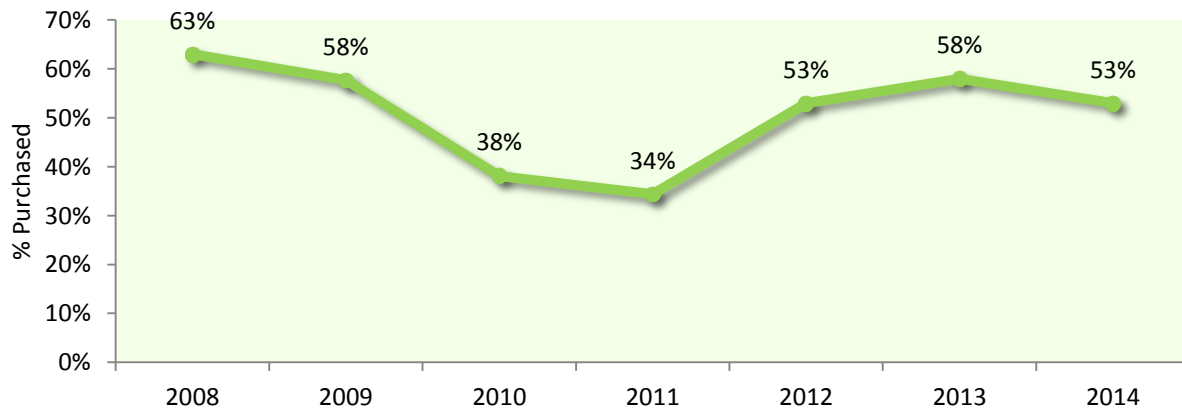
Water Usage



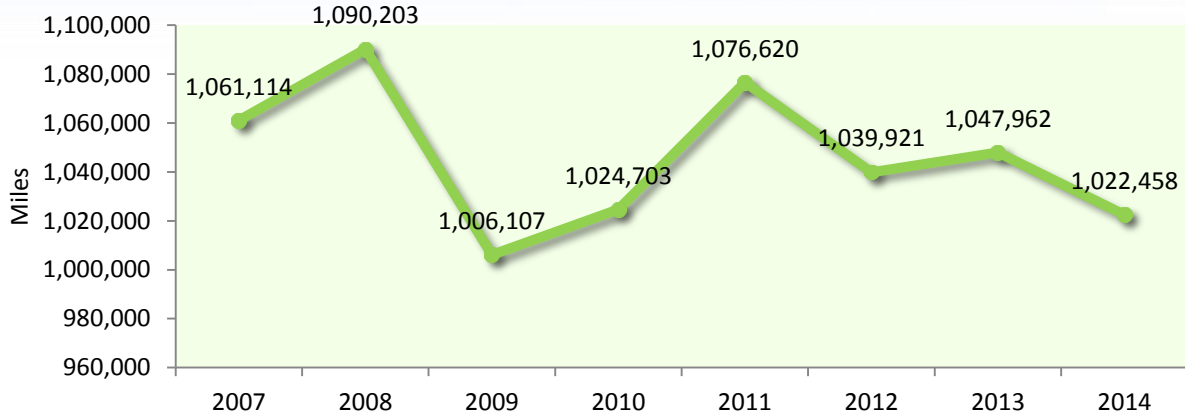
Waste Generated



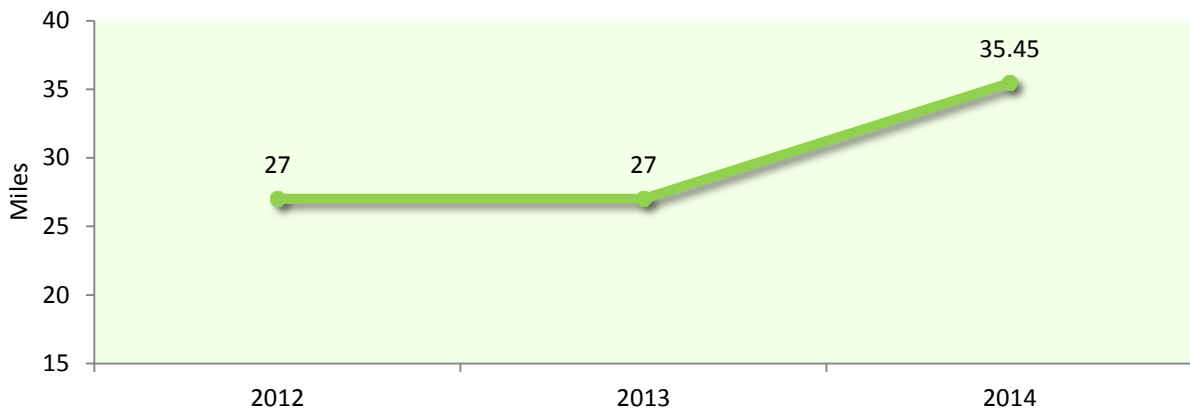
Green Office Supplies: City Operations



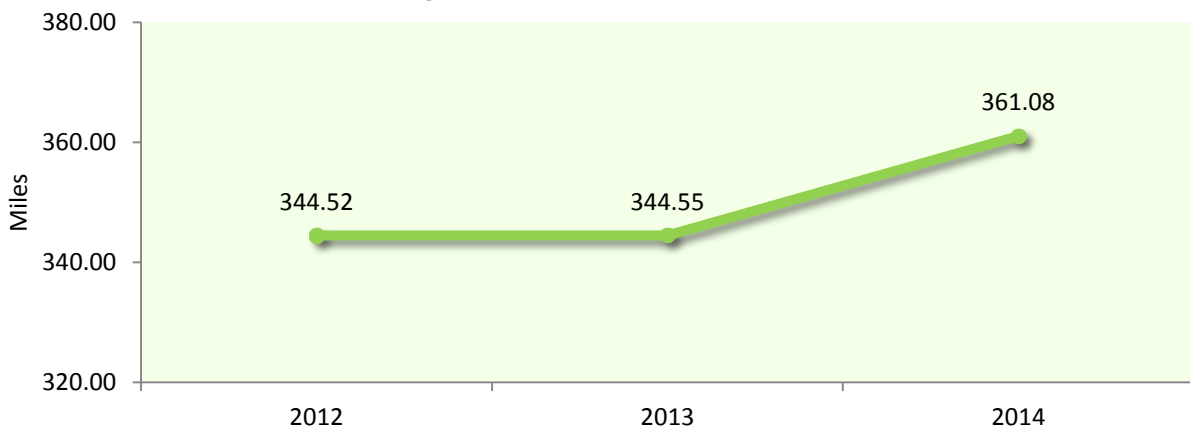
Transit Use: Fixed & Paratransit Ridership



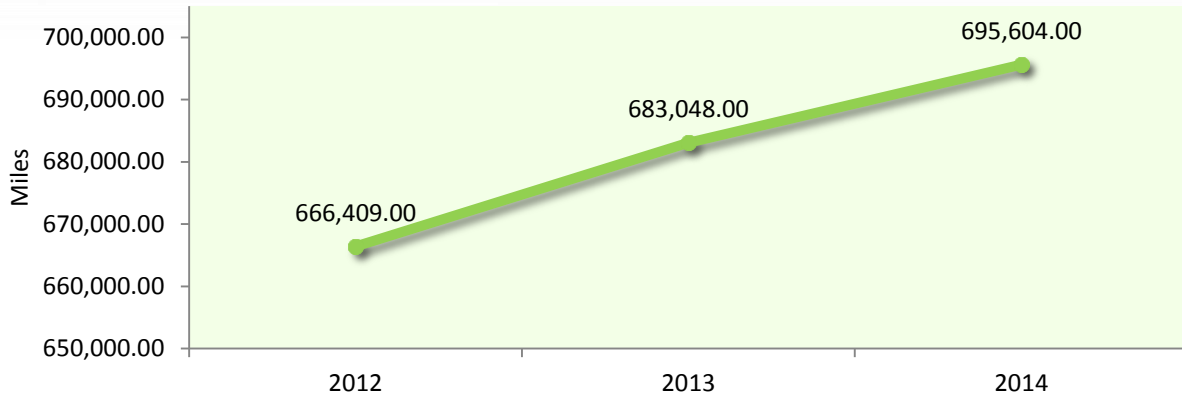
Transportation Miles: Multiuse Trails



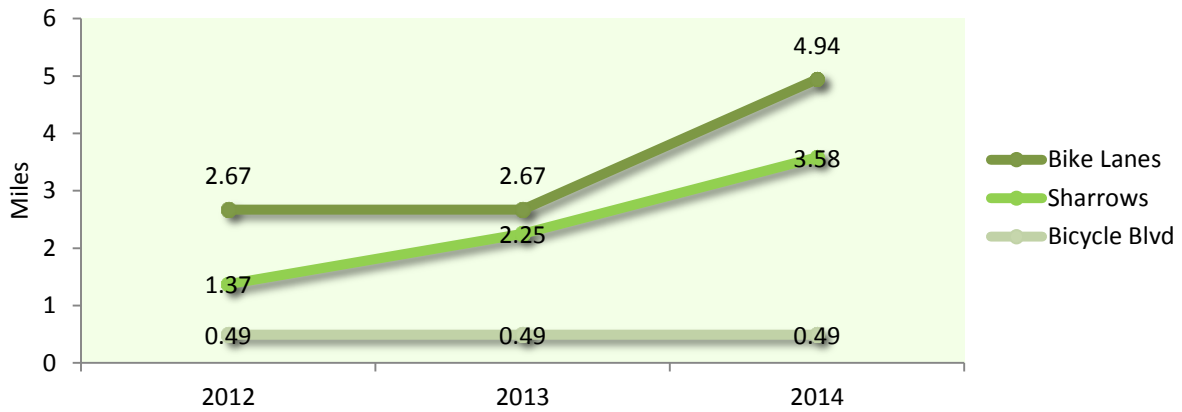
Transportation Miles: Streets








Transportation Miles: Transit Service



Transportation Miles: Bike Lanes, Sharrows and Bicycle Blvd



4. Green Tier Legacy Communities Strategy Options

    		City of Eau Claire 2012 Baseline*	City of Eau Claire 2012 Update*	City of Eau Claire 2013 Update*	City of Eau Claire 2014 Update*	City of Eau Claire 2015 Goal*
Field Value	<h3>Wisconsin Legacy Communities Strategy Options</h3> <p>The purpose of the strategy options matrix is to provide a broad list of best management practices that encompass several elements of sustainability including transportation, energy, land use, water, and waste. This list is not inclusive.</p> <p>Prospective signatories should use the strategy options to gauge environmental performance and then use this baseline to strive for superior results.</p> <p>Superior environmental performance may be achieved when municipalities use the strategy options to develop a sustainability plan that reduces their overall negative impact on the environment.</p>					
	<p>TRANSPORTATION DEMAND MANAGEMENT: Transportation demand management strategies aim to reduce GHG emissions and VMT by influencing change in individual behavior. These strategies encourage walking, bicycling, and transit as modes of transportation within a community and seek to curb the number and length of trips by vehicle.</p>					
TRANSPORTATION	Bicycle and Pedestrian Programs/Projects					
	2	Require bike parking for all new non-residential and multifamily uses.	0	2	2	2
	1	Set standards for placement and number (as function of intensity of use) for bike parking spaces.	0	1	1	1
	3	Commuter bike routes identified and cleared.	1	1	2	3
	5 to 10	League of American Bicyclists certification. (Bronze 5, Silver 7, Platinum 10)	5	5	5	7
	3	Funded and operating SRTS program (or functional equivalent) covering at least 10 percent of students.	2	2	2	3
	1	Conduct annual survey of students' mode of transport to school.	0	0	0	0
	Employer-Based Programs					
	5	Require large employers seeking rezoning to set a price signal (cash-out or charge).	0	0	0	0
	5	Require large employers seeking rezoning to provide subsidized transit.	0	0	0	0
	5	Require large employers seeking rezoning to provide a TDM plan that would reduce trips by 20 percent over business as usual.	0	0	0	0
	Traffic Volume					
	3	Track VMT or traffic counts and report on efforts at reduction (including those on this list).	1	1	1	2
	3	Eliminate parking minimums from non-residential districts.	0	0	0	0
	5	Set parking maximums at X per square feet for office and retail uses.	4	4	4	4
5	Scheduled transit service at basic level (hour peak service within half-mile of 50 percent of addresses).	5	5	5	5	
10	Scheduled transit service at enhanced level (half-hour peak service within 75 percent of addresses).	10	10	10	10	
TRANSPORTATION SYSTEM MANAGEMENT						
Transportation system management strategies aim to reduce GHG emissions and VMT by improving the overall performance of a transportation system. These strategies improve existing infrastructure, introduce new technology, and plan for the future of the system.						
Preservation and Improvement						
3	Develop and fully fund comprehensive maintenance program for existing roads.	3	3	3	3	
1 to 5	Charge impact fees for new roads.	0	0	0	0	
5	Calculate lane-miles per capita for arterials and collectors, and show reductions	1	1	3	4	
5	Prepare a plan identifying disconnections in bike and pedestrian networks, prioritizing fixes and identifying potential funding sources for the most important projects.	4	4	4	4	
5	Any proposal to add lanes to a two-lane roadway shall be evaluated for a center turn lane, the preferred option over an expansion to four lanes.	5	5	5	5	
3	Identify four-lane roadways with fewer than 20,000 vehicles per day (AADT) and evaluate them for "road diets" with bike lanes or on-street parking	3	3	3	3	
Electric Vehicles						
1	Allow NEVs on appropriate roadways.	1	1	1	1	
2	Provide public charging stations	0	0	0	1	
Vehicle Idling						
2	Ban idling (more than 5 minutes) with local government vehicles.	2	2	2	2	
5	Ban idling (more than 5 minutes) community-wide.	0	0	0	0	

*The City of Eau Claire's first Baseline was conducted in July 2012 before signing onto the program. The final 2012 update and 2015 goal was completed by City staff in February 2013. The 2013 update and revised 2015 goal was completed in January 2014. An update for 2014 final numbers and 2015 goals were done in May 2015.

		ZONING AND DEVELOPMENT					
		Zoning and development strategies work toward improving the overall environmental, economic, and social health of a community by promoting mixed-use and infill development, walkable neighborhoods, and an overall sustainable lifestyle.					
		<u>Infill Development</u>					
LAND USE	5	Identify priority areas for infill development, including those eligible for brownfields funding.	3	3	4	5	5
	1	Create land bank to acquire and assemble priority infill sites	1	1	1	1	1
	1	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application	0	0	0	0	1
			<u>Walkscore</u>				
	10	Measure Walkscore at 10 random residential addresses per Census tract, compute average, and improve upon overall score	0	0	9	10	10
			<u>Zoning</u>				
	5	Adopt traditional neighborhood design ordinance (If population is less than 12,500)	n/a	n/a	n/a	n/a	n/a
	5	Zoning for office and retail districts permits floor-area ratio > 1, on average.	3	3	3	3	3
	8	Zoning for office and retail districts requires floor-area ratio > 1, on average.	0	0	0	0	0
	5	Zoning code includes mixed use districts	5	5	5	5	5
8	Mixed-use language from Smart Code.	5	5	5	5	5	
		NATURAL RESOURCE MANAGEMENT					
		Natural resource management strategies seek to conserve, preserve, protect and promote a community's greenspace, wildlife, wetlands and waterways for this and future generations by promoting pervious surfaces and adequate setbacks.					
		<u>Canopy</u>					
3	Adopt tree preservation ordinance per GLTC standards.	0	0	0	0	3	
4	Set a tree canopy goal and develop a management plan to achieve it	3	3	3	3	4	
2	Require trees to be planted in all new developments	2	2	2	2	2	
2	Certification as Tree City USA	2	2	2	2	2	
		<u>Vegetation Management</u>					
2	Public properties and rights of way mown or cleared only for safe sightlines and/or to remove invasive species.	1	1	1	1	1	
2	Create community policy and BMP guidelines on minimizing chemical use during vegetation management of public and private properties.	1	1	1	1	1	
		<u>Water Protection</u>					
10	Establish 75-foot natural vegetation zone by surface water.	3	3	3	3	4	
5	Inventory wetlands and ensure no net annual loss.	3	3	3	3	3	
		COMMUNITY ENERGY USE					
		Community energy use strategies encourage energy efficiency and the use of renewable fuels to reduce total energy consumption throughout the community					
		<u>Community Energy Use Policies</u>					
6	Use PACE financing	0	0	0	1	6	
1	Watt meters available to the public	1	1	1	1	1	
10	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).	0	0	0	0	0	
		<u>Measuring Community Energy Use</u>					
4	Work with local utilities to calculate total electricity and natural gas consumption annually, beginning with the fifth year before entering the program.	4	4	4	4	4	
1	State of Wisconsin Energy Independent (EI) Community designation.	1	1	1	1	1	
		MUNICIPAL ENERGY USE					
		Municipal energy use strategies encourage municipal employees to conserve energy, preserve the environment, and decrease greenhouse gas emissions from municipal facilities, services, and vehicle fleets.					
		<u>Government Energy Use Policies</u>					
5	Include transportation energy/emissions as criterion in RFPs for purchases of goods over \$10,000.	0	0	2	2	4	
3	Develop list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager or LEED EBO&M score	1	1	2	2	2	
3	Reduce motor fuels use for non-transit activities --	1	1	1	1	2	
6	Provide transit passes at 50 percent or more off the regular price and/or provide parking cash-out options for local government employees.	0	0	0	0	0	
5	Streetlights operate at 75 lumens/Watt or higher	4	4	4	4	4	
3	Stoplights are LED or functional equivalent	3	3	3	3	3	
5	Municipal electricity purchases are at least 5 percentage points higher in renewable content than the statewide renewable portfolio standard requires. Calculation may include self-generated power and purchased offsets.	5	5	5	5	5	
		<u>Measuring Government Energy Use</u>					
5	Complete EPA Energy Star Portfolio Manager spreadsheet for government energy use. Or score existing buildings with LEED EBO&M.	4	4	4	5	5	
2	Calculate annual government fleet use of motor fuels, in gallons of petroleum and biofuels, beginning with the fifth year before entering the program.	2	2	2	2	2	
10	All new and renovated municipal buildings must meet LEED Silver or greater.	0	0	0	0	5	
		WATER USE CONSERVATION					
		Water Conservation strategy options set baselines and goals for water and energy performance in municipalities. They measure progress and promote water conservation by the government, business, and the community at-large.					
		<u>Water Conservation</u>					
6	Track water and sewer use annually, beginning with fifth year before entering program, and develop plan for reductions.	6	6	6	6	6	
4	Develop a water loss control plan with targets below the 15% required by the state and include a system-wide water audit implementation and time table	4	4	4	4	4	
2	Join EPA's WaterSense Program for water utilities or the Groundwater Guardian Green Sites program and promote them to local business.	0	0	0	0	0	
6	Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.	0	0	0	0	0	
1	Financial assistance for sewer lateral replacements.	0	0	1	1	1	
2 to 6	Upgrade water utility equipment (e.g., variable frequency drive motors) to achieve energy efficiency.	3	3	4	5	5	
3	Infiltration and inflow reduction by 10%	3	3	3	3	3	
5	Wastewater biogas captured and used in operations.	5	5	5	5	5	
5	Plan for replacing all toilets using > 1.6 gpf and annual progress sufficient to reach 90 percent replacement in 10 years.	2	2	3	3	4	

W A T E R	Local Government Use						
	2	Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)	0	0	0	0	1
	3	All outdoor watering by local government, excluding parks and golf courses, from rain collection.	0	0	0	0	0
	4	Develop a water efficiency and conservation plan for municipal buildings	1	1	1	1	2
	STORMWATER MANAGEMENT						
	Stormwater Management strategy options encourage the use of best management practices to achieve a reduction in the amount of harmful pollutants introduced to our streams, rivers, and lakes.						
	3	Develop a regular street sweeping program to reduce total suspended solids	3	3	3	3	3
	3	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	1	1	2	2	2
	2	Inventory all paved surfaces (e.g., by GIS mapping), and develop a plan for reduction	1	1	1	1	1
	2	Work with commercial or light industrial businesses to develop stormwater pollution plans	2	2	2	2	2
WATER AND DEVELOPMENT							
Water and Development strategy options link water conservation and the preservation of land, wetlands, and wildlife habitat while promoting compact development, restoration and rehabilitation efforts, and long-term planning.							
Land Development							
5	Identify key green infrastructure areas during plan development and/or implement a plan to acquire and protect key green infrastructure areas	5	5	5	5	5	
Waters, Wetlands, and Wildlife							
1 to 6	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	5	5	5	6	6	
3	Develop a system for identifying culverts that obstruct fish migration and install fish friendly culverts where needed	2	2	2	3	3	
4	Provide incentives for protection of green infrastructure, sensitive areas, important wildlife habitat, or for the restoration or rehabilitation of wetlands or other degraded habitats such as credit towards open space or set-aside requirements	3	3	3	3	3	
WASTE MANAGEMENT AND REDUCTION							
Waste Management and Reduction strategy options encourage municipalities and their citizens to divert organics and recyclables from landfills and properly dispose of hazardous materials in an effort to reduce waste in a community.							
3	Community waste stream monitored at least annually . Waste reduction plan prepared and updated annually	1	1	1	1	1	
4	Waste and materials management plan based on "zero-waste" principles, with specific goals, prepared and updated annually	0	0	0	0	0	
3	Construction/deconstruction waste recycling ordinance	0	0	0	0	3	
3	Mandatory residential curbside recycling pickup that covers paper, metal cans, glass and plastic bottles	3	3	3	3	3	
5	Develop a municipal collection program that encourages the diversion of food discards, yard materials, and other organics from landfills to composting or anaerobic digestion with energy recovery	2	2	2	2	4	
3	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	3	3	3	3	3	
4	Use anaerobic digesters to process organic waste and produce energy	4	4	4	4	4	
3	Implement municipal ordinances requiring manufacturer takeback for fluorescent bulbs, thermostats and other mercury-containing devices	0	0	0	0	1	
2	Ordinances in place to reduce the usage of phone books as well as single-use shopping bags, styrofoam food containers and other disposable packaging	0	0	0	1	2	
2	Pay-as-you-throw system implemented by municipality or required of private waste haulers	0	0	0	0	0	
1	Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction	1	1	1	1	1	
325		165	168	188	197	232	
		51%	52%	58%	61%	71%	