



City of Eau Claire

Green Tier Legacy Communities
2018 Annual Sustainability Report



INTRODUCTION

The City of Eau Claire is pleased to present its seventh Green Tier Legacy Communities (GTLC) annual sustainability report. This report represents how the City is striving to fulfill its mission “to provide for the common good and deliver services essential for a safe, sustainable, and engaged community”.

The 2018 report is an improvement over previous years and from the baseline year of 2012, when the City first joined the GTLC program under the Sustainability Charter. We continue to score more points on the Sustainable Strategies Scoresheet than years past. The following two pages provide a historical timeline on much of the City’s sustainability work.

The City deemed 2018 the year ‘Towards a Renewable City’ after passing ambitious sustainability goals. In March, 2018, the City became the second community in the state to set both municipal and city-wide goals. Carbon neutrality and obtaining 100% renewable energy by 2050 were adopted by the City Council (see table for more detail on carbon drawdowns per decade). These goals were approved after reviewing a 2017 research report and public opinion survey on what the city should do to help meet the Paris Agreement. Its objective is “holding the increase in the global average temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C above pre-industrial levels”.

City & Community 100% Carbon Neutral Goal by 2050	
4% annually over 2041 – 2050 (40% drop)	100% Renewable Energy Goal by 2050
3% annually over 2031 – 2040 (30% drop)	
2.5% annually over 2021 – 2030 (25% drop)	
1% annually over 2015 – 2020 (5% drop)	
Community/City Emission Baseline 2015	

After these goals were passed, the City applied for Public Service Commission – Office of Energy Innovation grant funding to create a climate and energy action plan. The plan will be created in 2019 and will include implementation sub-components of a net zero energy building guide and an electric vehicle readiness roadmap.

The following pages are highlights from various departments and divisions of the City of Eau Claire, the employee Green Team and Sustainability Advisory Committee. Highlights are covered within five main categories: build and buy green, land use, transportation, energy and climate, water, and waste. General accomplishments of the municipality can be found in the City of Eau Claire’s 2018 Annual Accomplishment Report.

CITY SUSTAINABILITY TIMELINE

General

- Mission Statement: *"It is our mission to assure the common good through services essential for a safe, **sustainable**, engaged and healthy community."*
- Strategic Plan directs capital improvement planning/operations to meet environmental and financial sustainability.

2007

- Based on community support, a directive from the City Manager commissioned a Sustainability Chapter in the Comprehensive Plan and formation of an internal staff green team. (Manager approves annual green team work plans to dictate tasks.)
- Community presentation by Alliance for Sustainability yielded further community support.

2008

- City Council adopted State's voluntary 25% by 2025 renewable energy goal.
- Hobbs Ice Arena remodeling project created the first LEED-certifiable City building.

2009

- City Council adopted The Natural Step systems framework for defining sustainability.
- As an entitlement community, the Federal Stimulus (ARRA 2009) Energy Efficiency Conversation Block Grant improved energy savings at the Ice Arena and City Hall.

2010

- The State Energy Office funded the City's first Energy Independence Plan for municipal operations and staff benchmarked all energy use for City buildings and fleet.
- Helped form the Chamber of Commerce's Green Business Initiative and served on its committee.

2011

- Developed the first carbon footprint for municipal operations for 2011.

2012

- Joined DNR's Green Tier Legacy Communities and serve on its Executive Committee.
- Joined ICLEI - Local Governments for Sustainability. Provides carbon emissions data tracking software and technical support for cities and counties.

2013

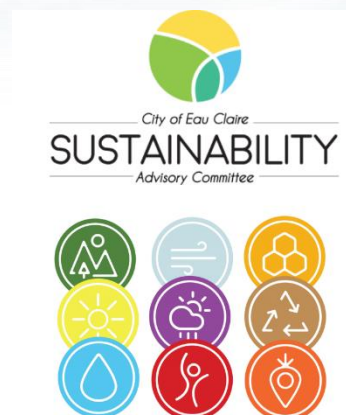
- Developed the Comprehensive Plan - Health Chapter linking climate change to public health risks (flood impacts to residents) and identified the need for a climate action plan.
- Community stakeholders on a Sustainable Bag Committee met for 6 months and formed a recommended solution to phase out disposal plastic bags.
- Received three Hybrids buses in March.
- Created a Farm to Work Community Supported Agriculture program.

2014

- Formed a citizen-appointed Advisory Commission on Sustainability (now called the Sustainability Advisory Committee) with City Council approving its work plans.

2015

- Updated Comprehensive Plan Sustainability Chapter. Strengthened renewable energy policies.
- Upgraded Waste Water Treatment Plant to capture 50% more biogas digesters for combined power and heat operations.
- Reduced affluent discharge by 95% into Chippewa River.



2016

- Eau Claire County was the first county in WI to enable Property Assessed Clean Energy (PACE) and the City serves on its state-wide commission.
- Xcel Energy retrofitted residential street lighting to LEDs saving the City money and carbon emissions.
- Created the Sustainable Eau Claire awards program to recognize outstanding leaders and organizations in the city.

2017

- Created an urban wood reuse program for local businesses to repurpose city street trees.
- City Council directed staff and Sustainability Advisory Committee to study how to help meet the Paris Agreement locally.
- In partnership with Xcel Energy, energized the first array of the largest community solar garden program in WI on a city-owned landfill. Subscribed at 116 kW to 100% offset Fairfax Swimming Pool.
- Developed first community-wide carbon footprint (2015 baseline for meeting 2050 goals.)
- A citizen-led solar group buy occurred. Over 800kW of solar was contracted.
- Scored top ten in U.S. for Solsmart Gold designation by Dept. of Energy's program.

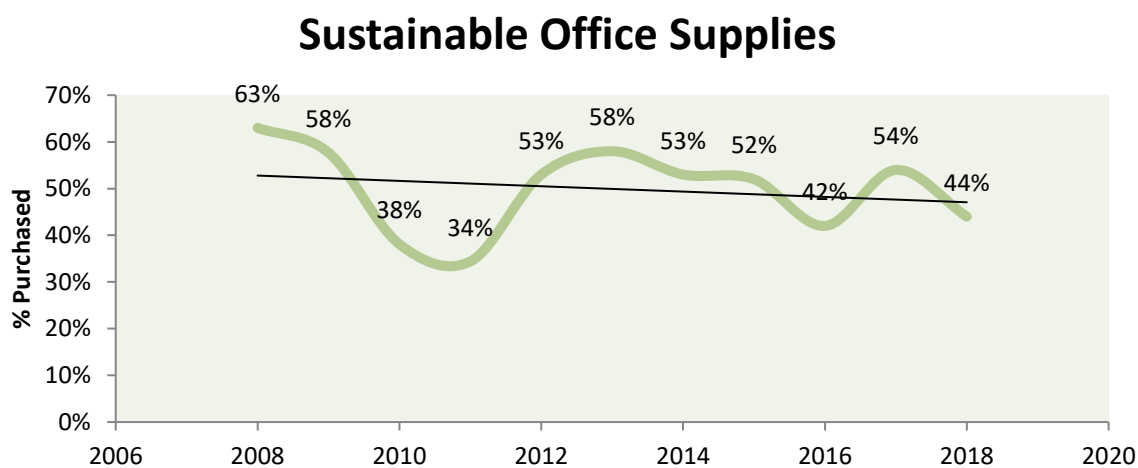
2018

- Tree City USA® was awarded (40 years) for effective managing of our urban tree canopy.
- Attended ICLEI – Local Governments for Sustainability World Congress in Montreal.
- In March, City Council adopted carbon neutrality and 100% renewable energy by 2050 to help meet the Paris Agreement.
- City Council passed a resolution to support Congressional legislators to pass a carbon fee and dividend federal system.
- With State funding created a lead service line reimbursement program.
- Conducted a feasibility study for over 1.5 MW of solar at City buildings.
- Analyzed with Xcel Energy City fleet conversions to electric vehicles (2018-2019).
- Have running 3 hybrid buses with 3 more on the way via State VW settlement funds.

- The Wisconsin Office of Energy Innovation funded climate change and renewable planning work in October 2018 to meet the City's 2050 goals.

BUILD & BUY GREEN

The City continues to purchase greener supplies and products. We have been tracking sustainable office supplies from our vendor for over a decade. The graph shows we hover around half for office needs. Environmentally-friendly products include paper, files, forms, writing instruments, drafting items, ink, toner, furniture, and cleaning supplies.



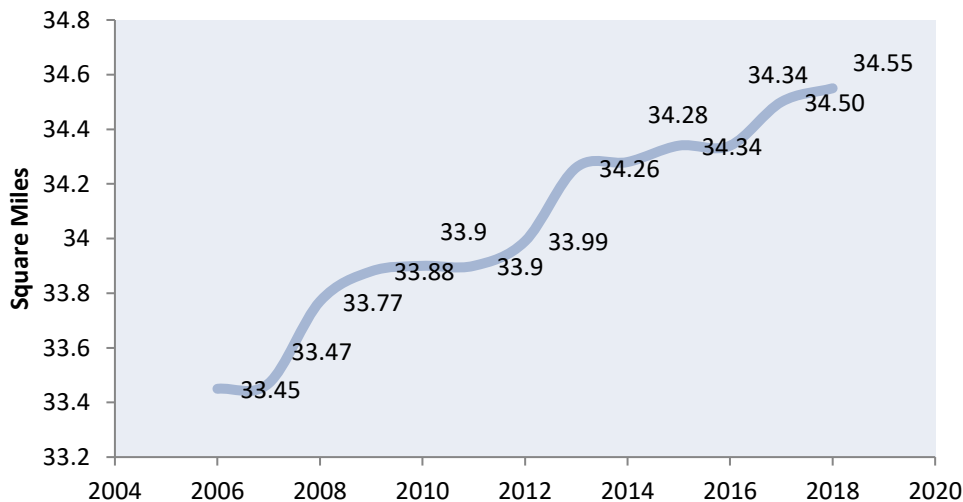
Major Accomplishments

- Finished the exterior renovation of City Hall and began the interior renovation to include historical restoration and modern office space.
- Managed the GovDeals auction site with 85 assets sold in 2018 for a total of \$89,600.
- Initiated process for updating the EPPP (Environmentally Preferable Purchasing Policy) to an SPP (Sustainable Purchasing Policy) to adhere to environmental goals passed by City Council in March 2018 for 100% renewable energy and carbon neutrality by 2050 for the City and community.
- Scanned paper files to digital project (Over 550,000 documents scanned).
- Forestry staff continued to lead the program on reuse of the City's urban street trees.
- Reused urban wood from Jeffer's Park marshaling yard for higher value products.
- Forestry planted 751 trees and removed 443 trees. (Part preemptive removal for EAB)

LAND USE

The city continues to expand, although in 2018 little acreage was added. The city is about the size of a square township, at 36 square miles, or 6 miles by 6 miles. The area contains urban development along with water bodies and environmental sensitive areas such as steep slopes and wetlands. The City's urban growth management strategy seeks compact development.

City Land Area



Major Accomplishments

- Served the Advisory Sustainability Committee and assisted on their annual work plan.
- Acted as City liaison to DNR's Green Tier Legacy Community program and served on its Executive Committee.
- Ran the third annual Eau Claire Sustainability Awards program to recognize businesses and organizations.
- Coordinated the City's Green Team's activities and City's annual sustainability report.
- Served on statewide Property Assessed Clean Energy - PACE commission to market and approve energy and water loans.
- Secured a \$180,000 competitive planning grant from the Wisconsin Office of Energy Innovation for renewable energy and climate change carbon reduction goals.
- Revised several related ordinances including City wide parking and speed limit updates; beekeeping update; dockless bike share; and keeping of poultry.
- Updated the City's Bicycle and Pedestrian Plan with the City's Bicycle and Pedestrian Advisory Committee.
- Instituted new Housing Code and Rental registration program to proactively inspect homes to assure health and safety. Over 10,000 rental units were registered in 2018.

- Two new homeowners received rehabilitation loans to rehab their owner-occupied residential units, including the abatement of lead in the units.
- Five low/mod homeowners received HOME Weatherization Grants (2 – Eau Claire Housing Division & 3 – Western Dairyland).

TRANSPORTATION

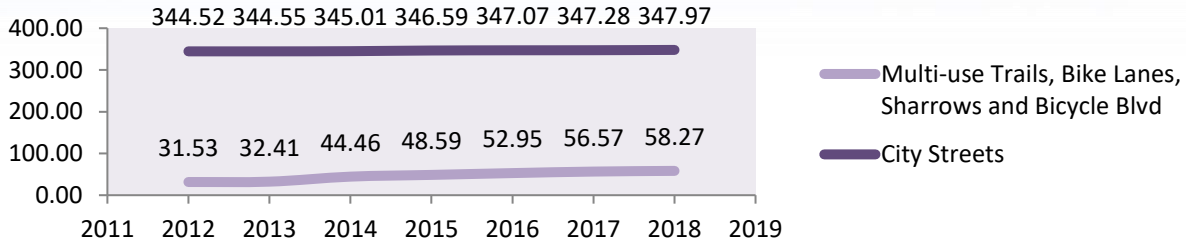
The City continues to invest in a multi-modal transportation system. This year's highlights again demonstrate the commitment to improving transit, bicycle and pedestrian infrastructure, as well as accommodating vehicles.



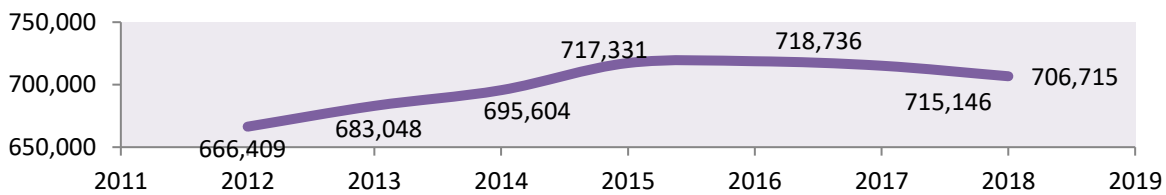
Major Accomplishments

- The Transit Division was awarded \$7,638,712 in funding for the following grants:
 - TIGER Grant – Transit Transfer Center and 4 buses - \$5,000,000
 - VW Environmental Mitigation Trust Transit Capital Grant –\$1,970,700 (3 buses)
- Attended walkability training in Atlanta with a group of Eau Claire community leaders.
- Unveiled the “Walk Your Wheels” Program. Sign installed and decals developed for spring 2019 installation.
- Added bike repair station to bike/pedestrian trail on Menomonie Street.
- Reconstructed the bike/pedestrian trail from Mercury Ave to Riverview Drive.
- Constructed the Grand Avenue Pedestrian Bridge.
- Constructed the Confluence Crossing Bridge connecting Phoenix Park with Haymarket Plaza. Finished design of and constructed approximately 75% of Haymarket Plaza.
- Secured WI DNR Recreational Trail Program Grants - \$90,000 (Birch Pavilion Steps and Downtown Riverwalk).
- Secured WI DNR Stewardship Program Grants - \$258,012 (S/W Dog Park and Boat Launch & Downtown Riverwalk).
- The library purchased a BookBike trailer to increase visits to the community.

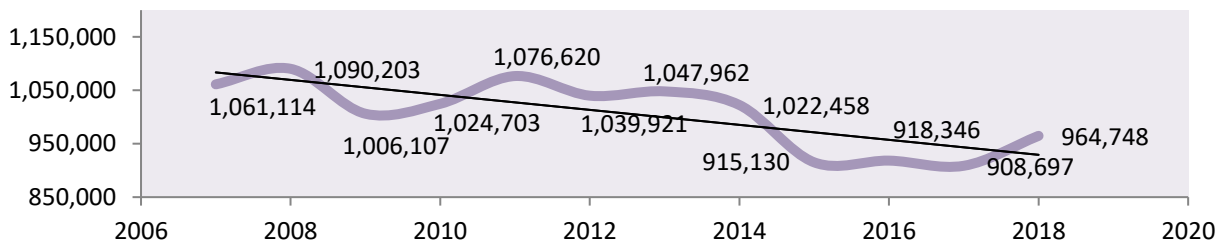
Transportation Miles



Transit Service Miles



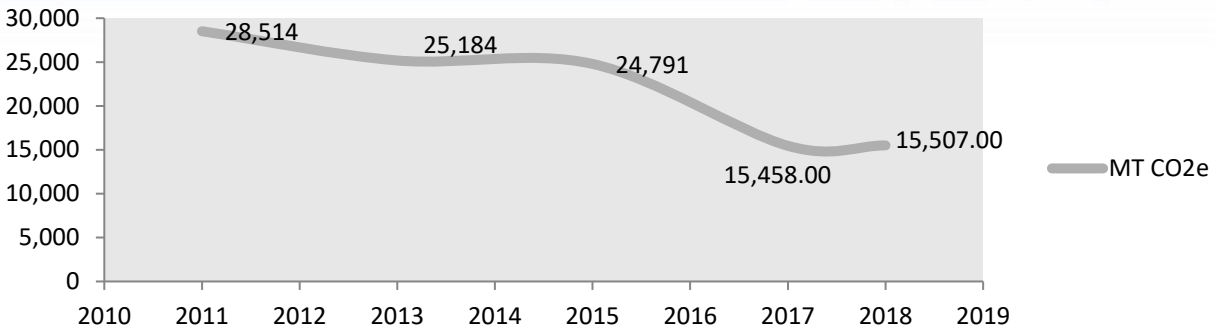
Transit Ridership



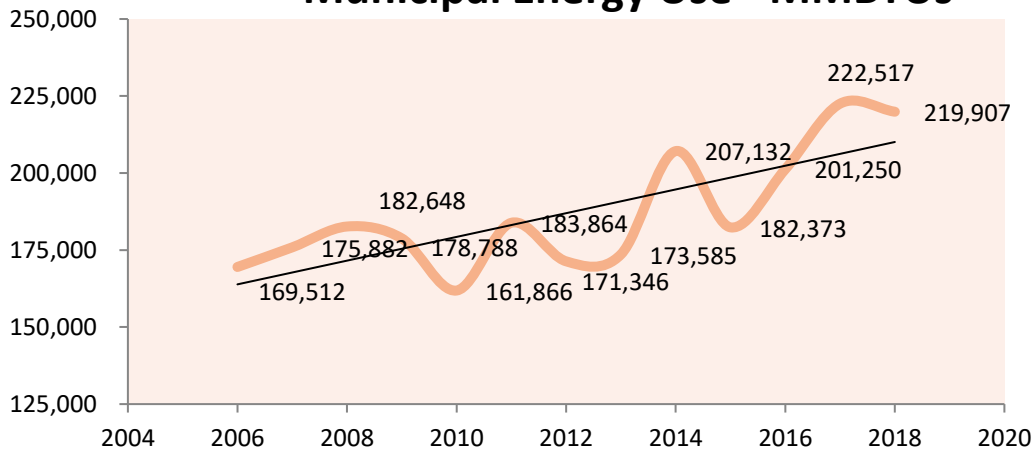
ENERGY & CLIMATE

At 28%, City operations have met the renewable energy 25% by 2025 goal for all energy use. This is mainly thanks to our utility providers Xcel Energy and Eau Claire Energy Cooperative (8%) and our biogas generation at the Waste Water Treatment Plan (20%). Even though the City uses more energy today because it is growing, carbon emissions are reducing. Again, the City can thank the utilities for reducing coal use and adding significant renewables to decarbonize the electric grid.

Municipal Carbon Footprint



Municipal Energy Use - MMBTUs



*Revised from past years - Waste Water Treatment Plant Biogas generation now included for all years

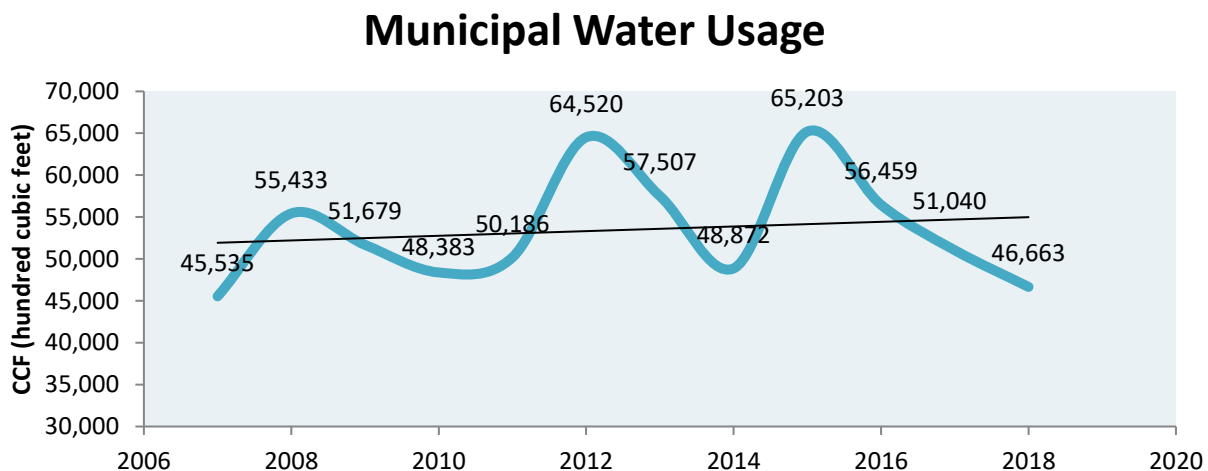
Major Accomplishments

- Worked with the West Central Wisconsin Regional Planning Commission to update the Hazard Mitigation Plan.
- Held five meetings of the Public Health Emergency Preparedness Committee for Eau Claire to plan for and respond to public health emergencies.
- Conducted weekly testing of beaches for bacteria and surveillance for harmful algae blooms to ensure public safety. A total of 459 samples were collected and analyzed from beaches.
- Completed 40 mosquito sampling events to contribute to regional West Nile virus surveillance.
- Conducted 82 sampling events for deer ticks at urban & rural parks. Data is utilized to monitor trends in infection rate and evaluate parks for their risk of human exposure to infected ticks.

- Partnered with Beaver Creek Reserve and City Parks and Recreation to expand education and outreach concerning Lyme disease awareness and prevention.
- Served on statewide Property Assessed Clean Energy- PACE commission to market and approve energy and water loans.
- Continued use of EPA's Energy Star Building Portfolio Manager tracking over 100 City accounts.
- Monitored and tracked water/sewer, gas and electric utility charges.
- Replacement of over 200 HPS lighting fixtures with LED fixtures along our State Highway Lighting System Corridors.
- Installed donated Solar Charging Unit in Phoenix Park.
- Hobbs Ice Arena projects included; back parking lot LED lighting, Hughes spectator shielding upgrade, O'Brien bleacher area rubber flooring, O'Brien/ Akervik refrigeration condenser replacement, Akervik Rink improvements design and future addition concept
 - Condenser replacement project was completed with no impact to ice use schedule.
 - Began new water treatment program for refrigeration condenser makeup water with new equipment and chemical provider.
- Rehabilitated well at Owen Park and installed variable frequency drives to pump motors.

WATER

Eau Claire has abundant water. Yet, we continue to seek ways to protect the resource and reduce consumption for the municipal and community.



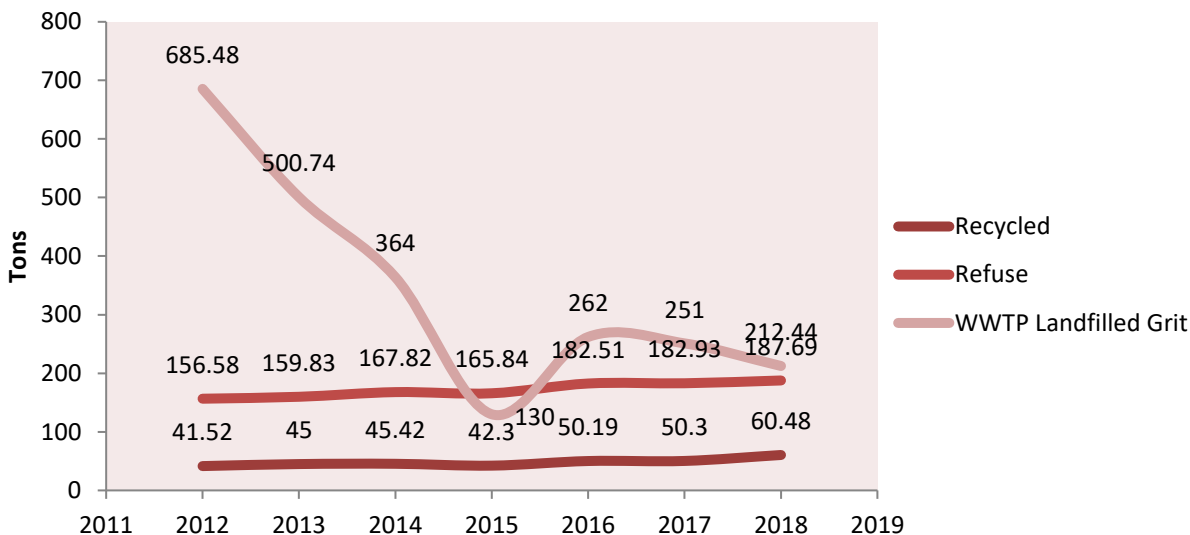
Major Accomplishments

- Secured State of WI Safe Drinking Water Loan Program funding – \$300,000 (Lead Service Line program).
- Pumped and treated 3.44 billion gallons of water and tested 18,615 times for water quality.
- Drained and cleaned both settling basins spring and fall at Water Treatment Plant.
- Converted 83% of our metering system to radio read meters.
- Rebuilt motor for pump 1 at Damon Booster Station.
- Rebuilt pump 2 including motor at Abbe Booster Station.
- Rehabilitated wells 9 and 14 including jetting of screens, replacement of valves, and addition of variable frequency drives.
- Applied approximately 3,750 tons of rock salt and 22,000 gallons of salt brine for ice control.
- Purchased new Brine making system. Included tanks, valve manifold, pumps and plumbing/hoses. System was set up in building B at CMF and is capable of producing 3,600 gallons per hour. Using salt brine can reduce the use of rock salt by approximately 30%.
- Added 4th storage tank for the salt brine additive called Beet Heet. When it is mixed with salt brine, it effectively melts ice at 15 degrees below zero when applied to rock salt.
- Approximately 13,383 miles of Street sweeping.
 - Hauled 19,995 cubic yards of street sweepings.
 - City completely swept 12 times and Half-moon water shed swept 16 times.
- Participated in a work group organized by the West Central Wisconsin Regional Planning Commission to update the environmental policies in the Chippewa Falls/Eau Claire Urban Sewer Service Area Plan for 2025.
 - Efforts included reviewing current policies, recommending changes to be consistent with state law and local jurisdiction practices, preparing materials for DNR review to support proposed changes, and preparing text to amend the current plan.
- Finished City's Storm Water Management Plan.
- Storm Water Municipal Separated Storm Water (MS4) Discharge Permit.
 - Chaired the Rain to Rivers of Western Wisconsin Forum, formerly the Chippewa Valley Storm Water Forum, a group of 17 local jurisdictions working together with the DNR and UW Extension on urban storm water runoff issues and education in the lower Chippewa River and St. Croix River Valleys.
 - Provide educational outreach through the Rain to Rivers – Wise Choices for Cleaner Waters, a campaign to present runoff water quality enhancement information. Rain to Rivers was involved in over 56 events in the Lower Chippewa River and St. Croix River Watersheds.
 - Issued three mini-grants to local non-profits for storm water runoff information and education opportunities.
 - Participated in the Eau Claire River Watershed Management Plan Implementation Team.

WASTE

The City of Eau Claire operations manages most of its own waste utilizing a garbage truck. Facilities have been outfitted with single-stream recycling containers to maximize the amount recovered. The City also picks up waste at park sites and other City-owned lands.


Waste Generated & Collected



Major Accomplishments

- Continued to work on expanding the Jeffers Road brush site. Work included stripping top soil, installation of storm water structures and piping, grading and rebuilding of berms around the brush site. Total expansion approximately 3.5 acres.
- Hauled 5,074 cubic yards of rubble, 456 cubic yards of trash, 18,720 cubic yards of leaves, and 936 cubic yards of mulch.
- At Wastewater Treatment Plant (WWTP) treated 2.76 billion gallons of wastewater.
 - Drained, inspected, cleaned east anoxic, anaerobic, and aeration basin.
 - Drained, cleaned, inspected final clarifier.
 - Improved efficiency of digesters via mixing process.
 - Improved efficiency of Kraft CHP.
 - Wastewater treatment plant efficiency levels: 98.6% BOD removal, 99% TSS removal, 96.1% Phosphorous removal, 99.4% Ammonia removal and 96.8% Hg removal.
- Ran the Earth Day community Amazing Eau Claire Clean-up.

SUSTAINABILITY STRATEGIES

Max. Score	 Sustainability Strategies Scoresheet	
<p>This Sustainability Strategies Scoresheet is provided for members to track sustainability management strategies in transportation, energy, land use, water, waste, and health. This scoresheet is intended to be dynamic and flexible. In the spirit of continuous improvement toward superior environmental performance, suggested revisions to this scoresheet are always encouraged. (Approved May 2018)</p>		
TRANSPORTATION DEMAND MANAGEMENT:		Eau Claire
<p>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>		2018
<u>Bicycle and Pedestrian Programs/Projects</u>		
2	Require bike parking for all new non-residential and multifamily uses.	2
1	Set standards for placement and number (as function of intensity of use) for bike parking spaces.	1
3	Commuter bike routes identified and cleared.	3
10	League of American Bicyclists certification. (Bronze 5, Silver 7, Platinum 10)	5
3	Funded and operating SRTS program (or functional equivalent) covering at least 10 percent of students.	2
1	Conduct annual survey of students' mode of transport to school.	1
<u>Employer-Based Programs</u>		
5	Require large employers seeking rezoning to set a price signal (cash-out or charge).	0
5	Require large employers seeking rezoning to provide subsidized transit.	0
5	Require large employers seeking rezoning to provide a TDM plan that would reduce trips by 20 percent over business as usual.	0
<u>Traffic Volume</u>		
3	Track VMT or traffic counts and report on efforts at reduction (including those on this list).	2
3	Eliminate parking minimums from non-residential districts.	0
5	Set parking maximums at X per square feet for office and retail uses.	5
5	Scheduled transit service at basic level (hour peak service within half-mile of 50 percent of addresses).	5
10	Scheduled transit service at enhanced level (half-hour peak service within 75 percent of addresses).	10
TRANSPORTATION SYSTEM MANAGEMENT		
<p>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.</p>		
<u>Preservation and Improvement</u>		
3	Develop and fully fund comprehensive maintenance program for existing roads.	3
5	Charge impact fees for new roads.	0
5	Calculate lane-miles per capita for arterials and collectors, and show reductions	4
5	Prepare a plan identifying disconnections in bike and pedestrian networks, prioritizing fixes and identifying potential funding sources for the most important projects.	5
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
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
<u>Electric Vehicles</u>		
10	Electric vehicles in gov't fleets - 2% of of fleet=5 points. 5% of fleet=10 points.	0
2	Allow NEVs on appropriate roadways.	2
2	Provide public charging stations	1

Vehicle Idling		
5	Ban idling (more than 5 minutes) with local government vehicles.	5
5	Ban idling (more than 5 minutes) community-wide.	0
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.		
Infill Development		
5	Identify priority areas for infill development, including those eligible for brownfields funding.	5
10	Create land bank to acquire and assemble priority infill sites	5
10	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application	2
Walkscore		
5	Measure Walkscore at 10 random residential addresses per Census tract, compute average, and improve upon overall score	5
Zoning		
5	Adopt traditional neighborhood design ordinance (If population is less than 12,500)	0
5	Zoning for office and retail districts permits floor-area ratio > 1, on average.	3
5	Zoning for office and retail districts requires floor-area ratio > 1, on average.	0
5	Zoning code includes mixed use districts	5
5	Mixed-use language from Smart Code TBA.	3
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.		
Canopy		
3	Adopt tree preservation ordinance per GTLC standards	0
3	Set a tree canopy goal and develop a management plan to achieve it	3
4	Have a Master Naturalist; ISA Certified Arborist or WDNR Community Tree Management Institute (CTMI) graduate on staff	4
2	Have community tree canopy mapped - https://pg-cloud.com/Wisconsin/	2
2	Require trees to be planted in all new developments	2
2	Certification as Tree City USA	2
2	Certification as Bird City Wisconsin Community	2
Vegetation Management		
10	Public properties and rights of way mown or cleared only for safe sightlines and/or to remove invasive species.	5
10	Create community policy and BMP guidelines on minimizing chemical use during vegetation management of public and private properties	5
Water Protection		
6	Establish 75-foot natural vegetation zone by surface water.	4
6	Inventory wetlands and ensure no net annual loss.	5
Community Energy Use Community energy use strategies encourage energy efficiency and the use of renewable fuels to reduce total energy consumption throughout the community		
Community Energy Use Policies		
10	Adopt PACE ordinance/jpa	10
10	Use PACE financing	0
5	Watt meters available to the public	5
5	Offer residents and businesses a mechanism to purchase shares of the electricity generated through a local renewable energy project. (Ex. a community solar program)	5
5	Facilitate a group-buy program through which residents receive discounted, volume-based pricing on energy efficiency or renewable energy projects based on aggregated demand.	5
3	Commit to achieving a science-based, community-wide GHG reduction goal.	3
3	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).	0

Measuring Community Energy Use		
6	Work with local utilities to calculate total electricity and natural gas consumption annually, beginning with the fifth year before entering the program.	6
5	Achieve milestone reductions in GHG emissions, as specified in the community's science-based GHG reduction goals.	0
5	State of Wisconsin Energy Independent (EI) Community designation.	5
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.		
Government Energy Use Policies		
5	Include transportation energy/emissions as criterion in RFPs for purchases of goods over \$10,000.	1
2	Develop list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager or LEED EBO&M score	1
10	Reduce motor fuels use for non-transit activities --	3
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
6	Streetlights operate at 75 lumens/Watt or higher	5
4	Stoplights are LED or functional equivalent	4
2	Establish a policy requiring that all major remodeling projects on municipal buildings result in the building receiving an ENERGY STAR score that is five points higher than the building's pre-remodel score.	0
6	Commit to achieving a science-based GHG reduction goal for emissions resulting from all municipal operations.	6
3	Incorporate energy use intensity (EUI) targets into the contracting process for all significant municipal construction projects	0
5	Establish policies requiring that all new municipal buildings achieve an ENERGY STAR score of 75 or higher.	0
2	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.	2
Measuring Government Energy Use		
2	Work with Energy Task Force OEI to track municipal facilities - Complete EPA Energy Star Portfolio Manager spreadsheet for government energy use. Or score existing buildings with LEED EBO&M.	2
3	Achieve milestone reductions in GHG emissions, as specified in the municipality's science-based GHG reduction goal.	3
4	Calculate annual government fleet use of motor fuels, in gallons of petroleum and biofuels, beginning with the fifth year before entering the program.	4
10	All new and renovated municipal buildings must meet LEED Silver or greater.	3
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.		
Water Conservation		
5	Track water and sewer use annually, beginning with fifth year before entering program, and develop plan for reductions.	5
1	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	1
2	Join EPA's WaterSense Program for water utilities or the Groundwater Guardian Green Sites program and promote them to local business.	0
6	Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.	6
3	Infiltration and inflow reduction by 10%	3
3	Plan for replacing all toilets using > 1.6 gpf and annual progress sufficient to reach 90 percent replacement in 10 years.	2
Local Government Use		
2	Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)	0
2	All outdoor watering by local government, excluding parks and golf courses, from rain collection.	0
2	Develop a water efficiency and conservation plan for municipal buildings	0

WATER AND WASTEWATER INFRASTRUCTURE MANAGEMENT		
Setting goals for the sustainable management of water and wastewater infrastructure reduces costs; saves energy; and ensures the protection of public health and the environment.		
5	Develop and implement asset management plans that set targets for the sustainable maintenance, operation and renewal of water and wastewater infrastructure.	5
5	Wastewater biogas captured and used in operations.	5
6	Conduct an energy assessment for municipal water and wastewater facilities and develop a plan to increase energy	6
3	Financial assistance for sewer lateral replacements.	3
4	Set goals for increasing the recovery of resources from wastewater for energy generation (heat or electricity) and fertilizer	3
4	Explore partnership options with high-strength waste.	0
4	Upgrade water and wastewater utility equipment (e.g., variable frequency drive motors) to achieve energy efficiency based on total life cycle, triple bottom line costs (e.g. maintenance and replacement strategies in asset management plans)	4
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
4	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	3
3	Inventory all paved surfaces (e.g., by GIS mapping), and develop a plan for reduction	1
5	Work with commercial or light industrial businesses to develop stormwater pollution plans	4
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		
3	Identify key green infrastructure areas during plan development and/or implement a plan to acquire and protect key green infrastructure areas	2
Waters, Wetlands, and Wildlife		
3	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	6
4	Develop a system for identifying culverts that obstruct fish migration and install fish friendly culverts where needed	4
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	2
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.		
8	Community waste stream monitored at least annually . Waste reduction plan prepared and updated annually	2
8	Waste and materials management plan based on "zero-waste" principles, with specific goals, prepared and updated	0
3	Construction/deconstruction waste recycling ordinance	1
5	Mandatory residential curbside recycling pickup that covers paper, metal cans, glass and plastic bottles	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	3
6	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	6
7	Use anaerobic digesters to process organic waste and produce energy	0
5	Implement municipal ordinances requiring manufacturer takeback for fluorescent bulbs, thermostats and other mercury-containing devices	0
4	Ordinances in place to reduce the usage of phone books as well as single-use shopping bags, styrofoam food containers	0
4	Pay-as-you-throw system implemented by municipality or required of private waste haulers	1
3	Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction	3

HEALTHY COMMUNITY PLANNING		
Policies and projects related to incorporating health living into community design- whether by built form, programs, education, etc. in an effort to reduce trends in poor nutrition, inactive lifestyles, chronic diseases, such as obesity and heart disease, and other negative health risk factors.		
Policies Affecting Multiple Program Areas		
7	Adopt a resolution that promotes Health in All Policies at the community level (e.g., HEAL Resolution). Include that educational campaigns supporting a program covered by the resolution are appropriately targeted to all of the populations addressed by the program	0
8	Establish a Health Impact Assessments policy, including when an assessment is required and its scope	5
Planning		
7	Add health policies in 1 or more of the community's plans, including the comprehensive plan, long-range transportation plan, bicycle/pedestrian plan and open spaces recreation plan (embedded or stand-alone chapter) or develop a comprehensive, community wide wellness plan.	7
6	Site schools in the Comprehensive Plan for accessibility with existing or new bicycle and pedestrian infrastructure	5
8	Encourage the formation and/or support of Neighborhood Improvement Districts (NIDs), Neighborhood Development Corporations, or other similar types of neighborhood reinvestment and enhancement strategies in plans or policies.	6
Healthy Food Access		
7	Implement strategies (urban agriculture, community gardens on public land, diversified farmer's markets, expanded traditional retail food options, ordinances to allow urban chickens and beekeeping and vegetable gardening in rights of way) that help increase fresh food access in the community, in particular in areas with food insecurity (e.g., "food deserts" and "food swamps"), including access by EBT and WIC participants.	5
6	Create a Food Systems Plan that addresses the production, distribution, value-added, marketing, end-market, and disposal of food, and charge a new or existing governmental body to oversee the plan's implementation.	3
Physical Activity and Access		
5	Provide an on-street and/or off-street trail network connecting recreational areas in the community (e.g. safe routes to parks) and other trip generators, such as shopping malls, ensuring all neighborhoods are included in planning and implementation	4
4	Encourage pedestrian and bicycle site connections from front door of businesses or apartments to a public sidewalk and/or bike lane ensuring connections to all neighborhoods.	4
4	Provide education and establish programming to encourage physical activity, especially by youth.	3
7	Establish an expanded public transit that serves commuters from all neighborhoods and major parks and recreation facilities, and has racks on vehicles for carrying bicycles.	5
5	Require sidewalks in new residential areas and establish a policy for adding sidewalks, as appropriate, in areas built out without sidewalks.	5
2	Implement a Complete Streets policy.	1
5	Provide recreation programs for youth, adults, senior citizens and disabled persons.	5
5	Establish a pedestrian safety task force.	4
Housing		
6	Adopt ordinances and programs to maintain a healthy housing stock (code enforcement, landlord licenses, volunteer program, truth-in housing disclosure before sale, etc.).	5
5	Allow life cycle or adaptable housing options, such as "aging in place", accessory dwelling units, Universal or Inclusive Design, Dementia Friendly Communities, Age-Friendly Communities, etc.	3
8	Establish a program to make housing more affordable.	3
5	Establish a program to address chronic homelessness, such as "permanent housing".	5
Crime Prevention and Other Harm Reduction		
4	Use by policy, ordinance or practice, Crime Prevention Through Environmental Design and active threat planning to make public spaces, such as recreational space, crime free.	1
5	Establish and implement Harm Reduction strategies for alcohol outlet density and sexual oriented establishments (e.g. zoning limitations)	4
5	Adopt an ordinance or policy that requires tobacco-free and e-cigarette free apartments or places limitations on such structures.	2
6	Adopt an ordinance or policy that promotes tobacco-free and e-cigarette free parks and/or public events on local government-owned property.	3

<u>Climate Change</u>		
5	Create and implement a climate change action plan that includes a carbon footprint study, and health related components on reducing air pollution from combustion of fossil fuels and responding to heat episodes and flooding, focusing in particular on most vulnerable populations.	3
<u>Noise</u>		
5	Adopt an ordinance, including conditional use permits, on noise abatement for various zoning districts.	1
<u>Employee Health</u>		
5	Implement a wellness program for employees of the local jurisdiction.	5
5	Encourage or partner with others, such as the Chamber of Commerce, etc., to advance workplace wellness programs within the community.	5
<u>Placemaking</u>		
5	Support placemaking at varying scale (neighborhood to major city facility) and permanence (temporary to permanent) through programming, financial support and removal of regulatory barriers to promote healthy living and social capital in the community.	3
5	Adopt form-based codes or similar type design guidelines for healthy active living environments.	0
<u>Waste Pharmaceuticals</u>		
6	Establish partnerships to reduce waste pharmaceuticals generated in the community and to efficiently collect remaining wastes to prevent their abuse and entry into solid waste or wastewater.	6
653	: TOTAL POSSIBLE	TOTAL SCORED: 397