



CITY OF FITCHBURG

2018 GTLC Annual Report

for Fitchburg's participation in the Sustainability Component
of the Green Tier Legacy Communities Charter

Last Revised March 2019

SUSTAINABILITY MISSION STATEMENT:

Protect the natural and cultural resources which characterize the City of Fitchburg and promote responsible land development and economic growth for a thriving, resilient and Forward Fitchburg.

TRANSPORTATION

- **Ride Share Pilot** – The Fitchburg Rideshare pilot program began operating in December 2017, under contract with Richwood Transport, LLC to provide transportation services. The intent of the program was to provide transportation options at a lower cost than bus service. The contract with Richwood Transport started in December 2017, and the pilot program served 1319 rides from December 2017 to the end of 2018. The pilot program showed that riders want transportation options and that Richwood Transport is not able to meet the expectations of the contract. The Common Council passed a resolution to terminate the contract effective March 9, 2019.
- **Voluntary Idling Reduction Campaign** continues with several local businesses and organizations participating.
- **State Trail Bike Pass Sales** – In 2018, 78 state bike trail passes were sold at the Fitchburg Community Center, up from 73 state bike trail passes in 2017.
- **Bike Path Improvements.** – Bike paths were resurfaced and replaced on East Cheryl Parkway bike, McKee Farms Park bike path, Seminole Glen Park Bike Path, and the Huegel/Jamestown Park Bike Path. Plans in 2019 include resurfacing the bike path on the west side of Seminole Hwy from Executive Drive South to the existing east/west path and the path that crosses Persimmons drive north to help with drainage. New path will be installed in McGaw Park around the west diamond, and a new path will be paved from Nobel Dr south in the Techlands Park.
- **Bicycle and Pedestrian Advisory Committee** – In 2018, a standing Bicycle Committee was formed to carry out the policies and recommendations to improve bicycling and pedestrian facilities and safety of the 2017 Bicycle and Pedestrian plan.
- **Bike and Pedestrian Safety** – Pervious pavement multi-use path was installed on a portion of Lacy Road and a new intersection was created at Rock Ridge Road and Lacy Road. Public water main, roadway, trail, and sidewalk improvements to service the Sub-Zero addition were completed in 2018.
- **Future Road Construction** – 2018 was a year of planning for upcoming road construction on S. Fish Hatchery, McKee, and the Nesbitt Road/Fitchrona Road Roundabout. Community stakeholder outreach included focus on pedestrian and bicyclist safety on these major roads.
- **Dynamic Speed Signs** – Signs showing traffic speed by school and other roads are solar powered.
- **Bicycle Commuter Station during Wisconsin Bike Week 2018** – Staff partnered with Fitchburg Bicycling Advocates to host a commuter station at the bike roundabout to encourage people to continue riding to work for the healthy and environmental benefits. Nearly 350 people stopped to enjoy donated refreshments and a free bike tune-up from Fitchburg Cycles.
- **Library distributed helmets to kids at Leopold Community Nights** – Summer 2018

LAND USE

- **Tree Advisory Committee** – The committee continues working on a long-term urban forestry plan focusing on canopy cover goals. Stakeholders will have many opportunities to provide input in the planning and review process.
- **Community Gardens and Orchards** – The City hosted a community garden at Swan Creek Park and an orchard at the Senior Center in 2018.

- **Emerald Ash Borer Preparedness** – Updated the EAB Readiness and Response Plan to an EAB Management Plan. Assessed 204 trees and treated approximately 200 public ash trees with insecticide (Treeage) to protect them from [Emerald Ash Borer](#).
- **Arbor Day & International Migratory Bird Day (IMBD) Celebration** – Celebrated 21 years as a Tree City. Coordinated fifth annual IMBD event to celebrate and raised awareness to the importance of birds in Fitchburg. Fitchburg first became a [Bird City Wisconsin](#) in 2013.
- **Tree Planting & Forest Restoration Pilot** – Volunteers helped maintain over 100 oak seedlings in nurseries in McGaw Park and the Tower Hill Greenway. Ten of these trees were transplanted in forest restoration work projects in Nobel Woods, McGaw Park, Oak Meadow Park, Seminole Glen Park, the Wildwood Kettle Pond, and Wildwood Park.
- **Prescribed burns** were conducted at 11 natural areas in 2018.
- **Urban Tree Inventory** – Updated approximately 40% of the urban tree inventory in ArcGIS.
- **Native seeding** – Volunteers pulled weeds and planted native prairie plant seedlings in the Harlan Hills Prairie, McGaw Park entrance prairie, McGaw Park Tall Grass Area, Wildwood South Kettle Pond, Wildwood South Park, Chicory Meadows Park, Oak Meadow Park, and Nobel Woods. A native plant restoration area was established under four oak trees in McGaw Park to serve as an example of an oak savanna ecosystem.
- **Invasive species removal** – Volunteers removed garlic mustard, honeysuckle, burdock, buckthorn, box elder, and black locust from McGaw Park, Nobel Woods, Oak Meadow Park, and Chicory Meadows Park.
- **Turf maintenance** – Many strategies have been adopted to save staff time and find ways to reduce chemical and fertilizer use. Aerating reduces the need for herbicides and larger mowers reduces number of hours staff need to mow. Planting longer grasses and low fescue varieties also require less mowing.

ENERGY

- **Solar Photovoltaic project** – The City added four new solar PV installations in 2017, and 2018 was the first full year of energy production. According to calculations from Legacy Solar Co-op, the new solar arrays resulted in a 9% reduction in imported electricity, and a 17% reduction in electric charges. The actual solar production (275501 kWh) was slightly higher than the predicted production (247573 kWh) for the four installations.
- **Fire Stations** – New East Fire Station construction began in 2018. The building design is similar the station built in 2017 with many green building features, including: geothermal heating/cooling, day lighting, LED lighting, solar thermal panels. The plan is to add solar PV after construction is complete.
- **City of Fitchburg Campus Energy Benchmarking** – We continue to work with an energy consultant for energy use analysis and benchmarking. Staff made minor adjustments to facilities management. In 2018, renewable sources fulfilled approximately 21% of the electric needs of four buildings.
- **Park Facilities** – LED path lighting was installed on the western McKee bike path in addition to ongoing work to transition park lighting to LED as bulbs and fixtures need replacement.
- **Water Utility Pumping Schedule** – Ongoing effort to pump water at off-peak times when energy rates are reduced continued in 2018.

WATER

- **Annual Waterway Cleanup** – On April 21st, volunteers, Council Members, RCC members, and elected officials helped to collect trash and recyclables from a few Fitchburg waterways. These include: Swan Creek of Nine Springs Neighborhood, Yarmouth Greenway, Belmar Neighborhood near Dunn's Marsh, Seminole Forest, and Quarry Hill Park of Fahey Glen Neighborhood. Cleanups were also held at Target and Placon in Fitchburg. The employees from these companies cleaned up public land throughout stormwater facilities and bike trails.
- **Toilet Rebates** – [The Water and Sanitary Sewer Utilities](#) continued the toilet rebate program in 2018 to encourage replacement of high gallon per flush toilets manufactured prior to 1994 with efficient WaterSense-approved models to [promote water conservation](#). The utility provided rebates of up to \$100 for 42 customers with an estimated annual saving of 526,000 gallons of water. The program will be continued in 2019.

- **Inlet Mural:** In partnership with the Madison Area Municipal Stormwater Partnership (MAMSWaP) an inlet mural was painted at the Fitchburg Library. This mural will be used as an educational tool for youth programs and bring attention to where the water goes during rain events.
- **Emergency Stormwater Repairs** – A culvert on East Clayton road needed to be repaired after a large rainfall event. Public Works crews responded and replaced the culvert. A portion of the Capital City Trail was also washed away by a large storm event. Followed up repairs were completed by Dane County. Storm Sewer on Targhee Street required repair and subsequent roadway patching as well.
- **August Flooding:** Severe flooding in Fitchburg on August 20th - 21st resulted in a near 24-hour record rainfall in the western portions of Fitchburg. Fitchburg public works responded to multiple instances of flooding and closed numerous roads that overtopped.
- **AMI (Advanced Metering Infrastructure)** – The Fitchburg Water Utility completed installation of the new Sensus metering system in early 2018, which provides enhanced customer service, hourly data, remote reads, leak and reverse flow detection, and tampered wire detection.
- **Yahara WINS Adaptive Management:** Participated in quarterly meetings and outreach to reduce phosphorus and sediment loading to downstream water resources.
- **Well Rehabilitation** – Well No. 11 was removed from service for maintenance work in 2018. This well was in good shape, only a few column pipe needed to be replaced. This project improved the efficiency of this well.
- **Salt/chloride reduction** – Several members of the Public Works crews attended the regional Winter Salt Reduction Workshop and recorded an educational video for Wisconsin Salt Wise demonstrating ways to reduce salt. Articles on salt reduction were included in the *Fitchburg Star*, a local monthly newspaper delivered to all residents. The goal is to keep chlorides out of waterways and drinking water.
- **Street sweeping** – The Streets Maintenance Crew swept 127 miles of streets to keep pollution, debris and nutrients out of waterways.



WASTE


- **City Hall E-Cycling/Battery Recycling** – The City continues to collect batteries, inkjet cartridges, cell phones, hearing aids, and eye glasses for recycling and reuse. The City collected an estimated 627 lbs. of alkaline batteries and lithium button batteries. Cell phones and smart phones are sent to Cell Phones for Soldiers, a nonprofit organization that recycles the cell phones and smart phones to generate funding to provide free communications to service men, women and veterans.
- **Compost Facility Implementation** – Staff continues to operate the new aerobic compost facility near the Public Works Maintenance Facility to process yard waste (leaves, twigs, grass clippings, etc.). The high-quality compost is made available for residents to pick up at the Recycling Drop Off Site (2373 S. Fish Hatchery Road), and is used by the parks department and streets department for restoration work for various city projects. Using our own compost and topsoil results in a significant cost savings.
- **Wood Chip Grinding** – Brush is ground into wood chips at the Public Works Maintenance Facility to provide wood chips for resident and municipal use.
- **Electronics Recycling Events** – Over 27,300 pounds of electronic items were collected. 2018 was the first year the event was held at City Hall, and there were very long lines with a huge turnout. It was also the first year using Resource Solutions, a WI DNR E-Cycle Certified recycler. All electronics are recycled and disposed of correctly so they don't end up in a landfill. *Spring collection* - approximately 8,415 pounds of electronic items were collected on April 21st, 2018. *Fall collection* – approximately 18,900 pounds of electronics were dropped off at the electronics recycling event on September 22, 2018.
- **Shred Day Events** – 7.15 tons of unwanted confidential documents were shredded in the trucks provided by Pellitteri for the 2018 spring and fall recycling events. In April, 3.46 tons of paper were brought by 240 vehicles. In September, 3.69 tons of paper were brought by 275 vehicles.
- **Med-Drop Collection** - In 2018, 1,197 pounds of unwanted medications were collected at the Fitchburg Police Department's permanent MedDrop Box. Disposal was conducted in conjunction with www.safecommunities.org.


- **Holiday lighting recycling** – Set up bin in City Hall Lobby and collected over 290 gallons of holiday light strings for recycling (7th year)
- **Recycling Education** – The City’s Resource Conservation Commission hosted the following events in 2018: BYOB (Bring Your Own Bag) event at HyVee in June, recycling education at apartment buildings, and ongoing lunchroom recycling in the Aldo Leopold School cafeteria. RCC members led a recycling education program at Aldo Leopold Elementary in 2018. Some victories with the program were eliminating plastic straws district-wide, and reducing the amount of trash generated 75%, from 60 to 15 bags of trash a day. Currently, there is a focus to expand this program beyond Aldo Leopold Elementary School.


HEALTH *(note some items like bike path and plans are already listed in previous sections and not duplicated here)*


- **Fitchburg Agriculture Plan** – The City continued to explore opportunities to implement this plan in 2018. The plan provides a comprehensive vision for approximately 11,000 acres of agricultural land in the City, including strategies to improve accessibility of local food to underserved populations.
- **Senior Recreation Programs** – Senior Center programs offered in education, health and wellness, and social/leisure encourage residents of all ages to stay active and healthy. Over 1400 people were involved in 2018.
- **Senior Citizen home repair** - Senior center volunteers dedicated time to home repairs including energy efficiency upgrades, changing furnace filters, installing LED bulbs, and installing safety devices (like ramps and grab bars).
- **Rec Center programs** – total annual enrollments were over 3200 for activities such as martial arts, archery, art camp, team sports, dance, art, yoga and mindfulness, and Zumba.
- **Tree planting** – Planted 225 trees that will eventually provide shade for vulnerable populations who may not have access to air conditioning as the climate warms and we experience more high heat days. Trees also uptake carbon dioxide and reduce air pollution.
- **Healthy Neighborhoods Initiative** – This Initiative is designed to develop and implement a collaborative and integrated approach to address specific barriers to opportunities in three northern City neighborhoods, in partnership with community/neighborhood partners. The City moved towards completion of a final draft of this Initiative’s strategic plan in 2018. Adoption of this plan is scheduled for early 2019. Specific pieces of the HNI that were implemented in 2018 include awarding \$44,000 to non-profit organizations undertaking work in HNI neighborhood, collaboration with Dane County to use County grant funds to hire a “neighborhood navigator, designed to provide resource support to neighborhood residents, and garnering \$30,000 in City funds to initiate planning for a neighborhood “hub” (center) in the North Fish Hatchery Road neighborhood.


Element	Max. Score	 GREEN TIER	<h2>Sustainability Strategies Scoresheet</h2> <p>(Also known as Appendix 3 of GLTC Charter, Last Revised 02-08-2016 by Rick Eiertson)</p>					City of Fitchburg 2011 Scores*	City of Fitchburg 2012 Scores*	City of Fitchburg 2013 Scores*	City of Fitchburg 2014 Scores*	City of Fitchburg 2015 Scores*	City of Fitchburg 2016 Scores*	City of Fitchburg 2017 Scores*
			 <p>This Sustainability Strategies Scoresheet is provided for member communities 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</p>			<p align="center">TRANSPORTATION DEMAND MANAGEMENT:</p> <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>								
T R A N S P O R T A T I O N	<u>Bicycle and Pedestrian Programs/Projects</u>		2	Require bike parking for all new non-residential and multifamily uses.	2	2	2	2	2	2	2	2		
	1	Set standards for placement and number (as function of intensity of use) for bike parking spaces.	1	1	1	1	1	1	1	0	0			
	3	Commuter bike routes identified and cleared.	3	3	3	3	3	3	3	3	3			
	10	League of American Bicyclists certification. (Bronze 5, Silver 7, Platinum 10)	0	5	5	5	5	5	7	7	7			
	3	Funded and operating SRTS program (or functional equivalent) covering at least 10 percent of students.	0	1	1	1	1	1	1	1	1			
	1	Conduct annual survey of students' mode of transport to school.	0	0	0	0	0	0	0	0	0			
	<u>Employer-Based Programs</u>													
	5	Require large employers seeking rezoning to set a price signal (cash-out or charge).	0	0	0	0	0	0	0	0	0			
	5	Require large employers seeking rezoning to provide subsidized transit.	0	0	0	0	0	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	1	1	1	1	1	1	1			
	<u>Traffic Volume</u>													
	3	Track VMT or traffic counts and report on efforts at reduction (including those on this list).	1	1	1	1	1	1	1	1	1			
	3	Eliminate parking minimums from non-residential districts.	0	0	0	0	0	0	0	0	0			
	5	Set parking maximums at X per square feet for office and retail uses.	0	0	0	0	0	0	0	0	0			
	5	Scheduled transit service at basic level (hour peak service within half-mile of 50 percent of addresses).	1	1	1	1	1	1	1	2	2			
	10	Scheduled transit service at enhanced level (half-hour peak service within 75 percent of addresses).	2	2	2	2	2	2	2	3	3			
	<u>TRANSPORTATION SYSTEM MANAGEMENT</u>		<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	3	3	3	3	3	3	3	3	3			
5	Charge impact fees for new roads.	0	0	0	0	0	0	0	0	0				
5	Calculate lane-miles per capita for arterials and collectors, and show reductions	0	0	0	0	0	0	0	0	0				
5	Prepare a plan identifying disconnections in bike and pedestrian networks, prioritizing fixes and identifying potential funding sources for the most important projects.	2	2	2	2	2	2	2	2	2				
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.	3	4	4	4	4	4	4	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	2	2	2	2	2	2	2	3	3				
<u>Electric Vehicles</u>														
1	Allow NEVs on appropriate roadways.	1	1	1	1	1	1	1	1	1				

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			2	Provide public charging stations		1	2	2	2	2	2	2	2	2
Vehicle Idling														
2	Ban idling (more than 5 minutes) with local government vehicles.		2	2	2	2	2	2	2	2	2	2		
5	Ban idling (more than 5 minutes) community-wide.		1	2	3	3	4	4	4	4	4	4		
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	5	5	5	5	5	5	5	5	5		
1	Create land bank to acquire and assemble priority infill sites		0	0	0	0	0	0	0	0	0	0		
1	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application		0	1	1	1	1	1	1	1	1	1		
Walkscore														
10	Measure Walkscore at 10 random residential addresses per Census tract, compute average, and improve upon overall score		0	5	5	5	5	5	5	5	5	5		
Zoning														
5	Adopt traditional neighborhood design ordinance (If population is less than 12,500)		5	5	5	5	5	5	5	5	5	5		
5	Zoning for office and retail districts permits floor-area ratio > 1, on average.		3	3	3	3	3	3	3	3	3	3		
8	Zoning for office and retail districts requires floor-area ratio > 1, on average.		0	0	0	0	0	0	0	0	0	0		
5	Zoning code includes mixed use districts		5	5	5	5	5	5	5	5	5	5		
8	Mixed-use language from Smart Code TBA.		8	8	8	8	8	8	8	8	8	8		
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	1	2	2	2	2	2	2	2	2		
4	Set a tree canopy goal and develop a management plan to achieve it		0	1	3	3	4	4	4	4	4	4		
2	Require trees to be planted in all new developments		2	2	2	2	2	2	2	2	2	2		
2	Certification as Tree City USA		2	2	2	2	2	2	2	2	2	2		
2	Certification as Bird City Wisconsin Community		0	0	2	2	2	2	2	2	2	2		
Vegetation Management														
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	1	1	1	2	2		
2	Create community policy and BMP guidelines on minimizing chemical use during vegetation management of public and private properties		0	0	1	1	1	1	1	1	1	1		
Water Protection														
10	Establish 75-foot natural vegetation zone by surface water.		10	10	10	10	10	10	10	10	10	10		
5	Inventory wetlands and ensure no net annual loss.		2	3	3	3	3	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														
Community Energy Use Policies														
6	Use PACE financing		0	0	0	0	0	0	0	0	0	0		
1	Watt meters available to the public		0	0	0	0	0	0	0	0	0	0		
10	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).		1	1	1	1	1	1	1	1	1	1		
Measuring Community Energy Use														

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			2011 Scores*	2012 Scores*	2013 Scores*	2014 Scores*	2015 Scores*	2016 Scores*	2017 Scores*					
E	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	4	4	4	4	4		
	1	State of Wisconsin Energy Independent (EI) Community designation.	1	1	1	1	1	1	1	1	1	1		
N	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.	0	0	0	0	0	0	0	0	0	0	0	
	3	Develop list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager or LEED EBO&M score	0	1	2	2	3	3	3	3	3	3	3	
	3	Reduce motor fuels use for non-transit activities --	1	2	2	2	2	2	2	2	2	2	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	0	0	0	0	0	0	
	5	Streetlights operate at 75 lumens/Watt or higher	3	3	3	3	3	3	3	3	4	4	4	
	3	Stoplights are LED or functional equivalent	3	3	3	3	3	3	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.	3	3	3	3	3	3	3	3	3	3	3	
	Measuring Government Energy Use													
	5	Complete EPA Energy Star Portfolio Manager spreadsheet for government energy use. Or score existing buildings with LEED EBO&M.	1	5	3	3	4	5	5	5	5	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.	1	2	2	2	2	2	2	2	2	2	2	
	10	All new and renovated municipal buildings must meet LEED Silver or greater.	5	5	5	5	5	5	5	5	5	5	5	
	R	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														
6		Track water and sewer use annually, beginning with fifth year before entering program, and develop plan for reductions.	6	6	6	6	6	6	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	4	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.	2	2	2	2	2	2	2	2	2	2	2	
6		Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.	5	5	5	5	5	5	5	5	5	5	5	
3		Infiltration and inflow reduction by 10%	3	3	3	3	3	3	3	3	3	3	3	
5		Plan for replacing all toilets using > 1.6 gpf and annual progress sufficient to reach 90 percent replacement in 10 years.	3	3	5	5	5	5	5	5	5	5	5	
Local Government Use														
2		Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)	0	0	0	0	0	0	0	0	0	0	0	
3		All outdoor watering by local government, excluding parks and golf courses, from rain collection.	2	3	3	3	3	3	3	3	3	3	3	
4		Develop a water efficiency and conservation plan for municipal buildings	0	0	2	2	2	2	2	2	2	2	2	
W		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.												
	10	Develop and implement asset management plans that set targets for the sustainable maintenance, operation and renewal of water and wastewater infrastructure.	4	4	4	5	5	6	6	6	6	6	6	
	5	Wastewater biogas captured and used in operations.	5	5	5	5	5	5	5	5	5	5	5	
	1	Financial assistance for sewer lateral replacements.	0	0	0	0	0	0	0	0	0	0	0	
	5	Set goals for increasing the recovery of resources from wastewater for energy generation (heat or electricity) and fertilizer.	0	0	0	0	0	0	0	0	1	1	1	
A	2	Explore partnership options with high-strength waste.	0	0	0	0	0	0	0	1	1	1		

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			K	6	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).	5	5	5	5	5	5	5	5	5
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	3	3	3	3	3	
3	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	3		3	3	3	3	3	3	3	3	3	3	
2	Inventory all paved surfaces (e.g., by GIS mapping), and develop a plan for reduction	2		2	2	2	2	2	2	2	2	2	2	
2	Work with commercial or light industrial businesses to develop stormwater pollution plans	0		1	2	2	2	2	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.														
<u>Land Development</u>														
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	5	5	5	5	5	5	
<u>Waters, Wetlands, and Wildlife</u>														
6	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	2		3	4	4	4	4	4	4	4	4	4	
3	Develop a system for identifying culverts that obstruct fish migration and install fish friendly culverts where needed	1		1	3	3	3	3	3	3	3	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	2		2	3	3	3	3	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.														
W A S T E	3	Community waste stream monitored at least annually . Waste reduction plan prepared and updated annually	3	3	3	3	3	3	3	3	3	3		
	4	Waste and materials management plan based on "zero-waste" principles, with specific goals, prepared and updated annually	2	3	3	3	3	4	4	4	4	4		
	3	Construction/deconstruction waste recycling ordinance	2	3	3	3	3	3	3	3	3	3		
	3	Mandatory residential curbside recycling pickup that covers paper, metal cans, glass and plastic bottles	3	3	3	3	3	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	4	4	4	4	5	5	5	5	5		
	3	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	3	3	3	3	3	3	3	3	3	3		
	4	Use anaerobic digesters to process organic waste and produce energy	0	0	1	0	0	0	0	0	0	0		
	3	Implement municipal ordinances requiring manufacturer takeback for fluorescent bulbs, thermostats and other mercury-containing devices	0	0	1	1	1	1	1	1	1	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	0	0	0	0	0	0	0		
	2	Pay-as-you-throw system implemented by municipality or required of private waste haulers	2	2	2	2	2	2	2	2	2	2		
	1	Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction	1	1	1	1	1	1	1	1	1	1		
	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.														
<u>Policies Affecting Multiple Program Areas</u>														
5	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	0	0	0	0	0	0	0	0	0	0		
8	Establish a Health Impact Assessments policy, including when an assessment is required and its scope	0	0	8	0	0	0	0	0	0	0	0		
<u>Planning</u>														

Element	Max. Score	 GREEN TIER	<h2>Sustainability Strategies Scoresheet</h2> <p>(Also known as Appendix 3 of GTLC Charter, Last Revised 02-08-2016 by Rick Eiertson)</p>					City of Fitchburg	City of Fitchburg	City of Fitchburg	City of Fitchburg	City of Fitchburg	City of Fitchburg	City of Fitchburg
			2011 Scores*	2012 Scores*	2013 Scores*	2014 Scores*	2015 Scores*	2016 Scores*	2017 Scores*					
HEALTH	8	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.	0	0	0	0	0	0	3					
	3	Site schools in the Comprehensive Plan for accessibility with existing or new bicycle and pedestrian infrastructure	1	1	1	1	1	1	1					
	5	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.	0	0	0	0	0	0	3					
	Healthy Food Access													
	6	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.	0	0	0	0	0	0	2					
	7	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.	0	0	0	0	0	0	5					
	Physical Activity and Access													
	4	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.	2	2	2	2	2	3	3					
	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.	1	1	1	1	1	2	2					
	3	Provide education and establish programming to encourage physical activity, especially by youth.	1	1	1	1	1	2	2					
	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.	4	4	4	4	4	4	4					
	6	Require sidewalks in new residential areas and establish a policy for adding sidewalks, as appropriate, in areas built out without sidewalks.	4	4	4	4	4	4	4					
	8	Implement a Complete Streets policy.	0	0	0	0	0	0	0					
	5	Provide recreation programs for youth, adults, senior citizens and disabled persons.	4	4	4	4	4	5	5					
	3	Establish a pedestrian safety task force.	0	0	0	0	3	3	3					
	Housing													
	7	Adopt ordinances and programs to maintain a healthy housing stock (code enforcement, landlord licenses, volunteer program, truth-in housing disclosure before sale, etc.).	0	0	0	0	0	0	0					
	6	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.	0	0	0	0	0	0	0					
	8	Establish a program to make housing more affordable.	0	0	0	0	0	0	0					
	7	Establish a program to address chronic homelessness, such as "permanent housing".	0	0	0	0	0	0	0					
	Crime Prevention and Other Harm Reduction													
	6	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.	0	0	0	0	0	0	0					
	5	Establish and implement Harm Reduction strategies for alcohol outlet density and sexual oriented establishments (e.g. zoning limitations)	0	0	0	0	0	0	0					
	4	Adopt an ordinance or policy that requires tobacco-free and e-cigarette free apartments or places limitations on such structures.	0	0	0	0	0	0	0					
	3	Adopt an ordinance or policy that promotes tobacco-free and e-cigarette free parks and/or public events on local government-owned property.	0	0	0	0	0	0	0					
	Climate Change													
	7	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	5	5	1	1	1	1					
	Noise													
			0	0	0	0	0	0						

Element	Max. Score	 GREEN TIER	<h2>Sustainability Strategies Scoresheet</h2> <p>(Also known as Appendix 3 of GTLC Charter, Last Revised 02-08-2016 by Rick Eiertson)</p>					City of Fitchburg 2017 Scores*
			City of Fitchburg 2011 Scores*	City of Fitchburg 2012 Scores*	City of Fitchburg 2013 Scores*	City of Fitchburg 2014 Scores*	City of Fitchburg 2015 Scores*	City of Fitchburg 2016 Scores*
2		Adopt an ordinance, including conditional use permits, on noise abatement for various zoning districts.	1	1	1	1	1	1
<u>Employee Health</u>								
5		Implement a wellness program for employees of the local jurisdiction.	0	0	0	0	0	3
6		Encourage or partner with others, such as the Chamber of Commerce, etc., to advance workplace wellness programs within the community.	0	0	0	0	0	1
<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.	2	2	2	2	2	2
8		Adopt form-based codes or similar type design guidelines for healthy active living environments.	6	6	6	6	6	6
<u>Waste Pharmaceuticals</u>								
4		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.	4	4	4	4	4	4
536			199	233	259	247	256	275
			37%	43%	48%	46%	48%	51%
								288
								54%