

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

- **Bike-to-Work Commuter and Fitness Challenge**– 29 Fitchburg staff and elected officials participated in a commuter and fitness challenge with a new emphasis on health and wellness. Staff organized five monthly group activities (walk or bike to lunch) to encourage participation in a social setting.
- **Bike Week Commuter Station** – Staff partnered with Fitchburg Bicycling Advocates to host a commuter station at the bike roundabout. Nearly 350 people stopped to enjoy donated refreshments and a free bike tune-up from Fitchburg Cycles.
- **Voluntary Idling Reduction Campaign** continues with several local businesses and organizations participating.
- **State Trail Bike Pass Sales** – 67 2016 state bike trail passes were sold at Fitchburg's Community Center. 2016 passes were available in December 2015 prior to the holiday gift-giving season.
- **Bike Path Improvements.** 1. City crews paved a new multi-use path to connect USH 14 to Golden Gate Pass in the Uptown area. 2. The Tree Line Bike Path was resurfaced from Seminole Hwy to Tree Line Drive. 3. The Rothmore Bike Path was resurfaced from Rothmore Lane to Edenberry St. 4. A new Nine Springs Bike Path was constructed as part of the Prima Apartment development on E. Cheryl Parkway. 5. 770 feet of new multi-use path was added in McGaw Park to connect Lacy Rd. to the park shelter. 6. Cracks were filled on several bike paths including the Syene path and Swan Creek path, totaling 4,959 pounds of crack filler.
- **Fish Hatchery Road Bridge Sidewalk** – The sidewalk on both sides of Fish Hatchery Road were removed and replaced to improve wheel chair crossing by reducing the slope to 2-4% to meet current standards for disabled people. The storm inlets were also replaced on the east side of Fish Hatchery Road.
- **LED Street Lighting Project** – The State Energy Office awarded a \$75,000 grant to help fund the retrofit of 250 high-pressure sodium lighting with LED lighting along Fish Hatchery Road and McKee Road, two of Fitchburg's busiest arteries. The City matched \$8,628. The replacement fixtures reduced the overall energy consumption by one third, saving 59,300 kWh and \$6,424 annually.
- **Lacy Road Reconstruction Planning** – The City continued planning Lacy Road reconstruction. Plans include multi-use path for bikers and pedestrians, traffic calming and LED lighting.
- **Bicycle and Pedestrian Plan Update and Bicycle and Pedestrian Advisory Committee** – A committee was created to update the Bicycle and Pedestrian Plan, and providing policy guidance and advice to the City on strategies to improve bicycling and pedestrian facilities and safety. The draft plan was developed in 2016.
- **Ride Share planning** – Council funded a pilot program to provide a rideshare service that enhances east-west transportation options to connect residents living in underserved neighborhoods to the Library, City Hall and Senior and Community Center.
- **Bicycle Way-Finding Manual** – City staff helped create a regional Bicycle Way-finding manual.

LAND USE

- [Tree Advisory Committee](#) – The committee continues working on a long-term urban forestry plan with an evaluation of ordinance changes. Stakeholders will have many opportunities to provide input in the planning and review process.
- [Community Orchards](#) – Orchards are being maintained in Belmar Park near the Dane County Boys and Girls Club and at the City Hall campus behind the Senior Center.
- **Emerald Ash Borer Preparedness** – Assessed 161 trees and treated 142 public ash trees with insecticide (Treeage) to protect them from [Emerald Ash Borer](#).
- [Arbor Day & International Migratory Bird Day \(IMBD\) Celebration](#) – Celebrated 19 years as a Tree City and earned a 12th Growth Award which qualifies Fitchburg as a Sterling Tree City. Coordinated fourth 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** – maintained volunteer planting of 75 trees and shrubs in local parks with community groups, including Community Orchards at the Community/Senior Center and the Boys and Girls club, the first phase of planting of the Seminole Glen Park Forest Restoration, second phase of planting of the Quarry Hill Park Forest Restoration, continued planting at the Nobel Woods Forest Restoration and a new project at Wildwood Park. Planted additional 172 trees in city parks and on street terraces.
- **Prescribed burns** were conducted at seven natural areas in 2016.
- **Urban Tree Inventory** – Completed 95% of the urban tree inventory in ArcGIS.
- **Native seeding** – Volunteers pulled weeds and planted native prairie plant seedlings for Harlan Hills Prairie Restoration.
- **Invasive species removal** – Volunteers removed garlic mustard, honeysuckle, burdock, buckthorn, box elder, and black locust.
- **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.
- **Two neighborhood plans** – Planning studies were completed in Anton Dr. and Leopold/Post Rd. neighborhoods, both of which are home to underserved populations. Both studies will included an analysis of bus and rapid transit (BRT) needs and infill redevelopment.

ENERGY

- **LED Street Lighting Project** – The State Energy Office awarded a \$75,000 grant to help fund the retrofit of 250 high-pressure sodium lighting with LED lighting along Fish Hatchery Road and McKee Road, two of Fitchburg's busiest arteries. The City matched \$8,628. The replacement fixtures reduced the overall energy consumption by one third, saving 59,300 kWh and \$6,424 annually.
- **City of Fitchburg Campus Energy Benchmarking** – Completed building inventories for library, City Hall/Police Dept. and Community/Senior Centers and input data into Energy Star Portfolio Manager as part of a GTLC benchmarking initiative. Completed well inventory as part of a Wisconsin Office of Energy Innovation study to benchmark municipal wells.
- **Senior Citizen Energy Conservation Program** – Volunteers clean refrigerator coils and door seals. The Energy Task Force Team provided the following services to seniors' homes: insulating pipes, installing new smoke detectors/batteries, removing/installing storm windows, repairing pull-chain light units, and properly disposing of old light bulbs.
- **Park Facilities** – LED lighting was installed at the McGaw, Huegel-Jamestown and McKee park shelters in addition to ongoing work to transition park lighting to LED as bulbs and fixtures need replacement.
- **Fire Stations** – Design of the new West Fire Station began with many green building features, including: geothermal heating/cooling, day lighting, LED lighting, solar thermal panels, and solar PV conduits.
- **City Hall** – VAV heating valves were replaced.
- **Solar Photovoltaic 2015 Energy Generation** –
 - The 12.3 kW solar PV panels on City Hall generated 13,765 kWh, saving 21,327 pounds of CO₂, and \$3,441.25 in electricity costs.
 - A 9.9 kW PV system at the Public Works Maintenance Facility generated 10,937 kWh per year, saving 16,945 pounds of CO₂ and \$2734.25 per year.
 - Solar thermal panels provide hot water for City Hall, and reduces natural gas usage by 88 mega BTUs each year. By comparison, that is roughly twice the energy that the solar electric panels on City Hall generate in a year.
- **Water Utility Pumping Schedule** – Ongoing effort to pump water at off-peak times when energy rates are reduced.
- **Solar Planning** – Council funded a 2017 project to develop 365 kW solar project on municipal rooftops using a third-party finance model in order to take advantage of federal tax credits.
- **Community Solar Survey and Forum** – The City received a \$2,500 grant to administer a survey to gauge Fitchburg's interest in community or shared solar. The survey was launched at a community solar forum in October. Sixty-five people attended the forum and 86 people participated in the survey, which showed enthusiastic interest in a community solar project in Fitchburg based. The primary motivator for investing in community solar is for the environmental benefits of clean energy.

- **Fitchburg Agriculture Plan Update** – Encourages local food strategies to connect growers with local businesses and farmer's markets to reduce food miles. It also encourages small scale vegetable farming in tandem with ground mount solar PV panels.

WATER

- **Emergency Stormwater Repairs** – Damage resulting from a large rain event on July 21, 2016 prompted stormwater repairs to the Renaissance on the Park Pond (berm failure), the Schumann Greenway, and the Cap City Trail.
- **Annual Waterway Cleanup** – 40 volunteers picked up trash and recyclables from Swan Creek, Yarmouth Greenway and Dunn's Marsh areas, collecting 53 large garbage bags full of trash and 17 large bags of recyclables.
- **Stream Monitoring** – Environmental Division staff conducted monthly water sampling on Nine Springs Creek and Swan Creek from May to October 2016.
- **Toilet Rebates** – [The Water and Sanitary Sewer Utilities](#) continued the toilet rebate program in 2016 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 53 customers with an estimated annual saving of 689,000 gallons of water. The program will be continued in 2017.
- **Stormwater Facilities** – Enlarged the Lacy Heights Bioretention Facility and the Schumann Greenway and McKee Farms Park NW Pond with \$170,000 in grants from DNR, Dane County and Yahara WINS. Constructed the Lacy Heights Bioretention Facility. Enlarged the Schumann Greenway and McKee Farms Park NW ponds Enlargement. Planned and designed the Byrne Pond Retrofit project, and incorporated features that reduce sediment/nutrient runoff, reduce runoff volume to alleviate surface water flooding in the private closed depression downstream of the pond, and improve groundwater quality for adjacent private wells.
- **AMI (Advanced Metering Infrastructure)** – The Fitchburg Water Utility continued installation of the new Sensus metering system, which provides enhanced customer service, hourly data, remote reads, leak and reverse flow detection, and tampered wire detection. The Utility installed approximately 1,650 meters/radios in 2016. Installations are 97% complete and will be completed in 2017.
- **Yahara WINS Adaptive Management:** Participated in quarterly meetings and outreach to reduce phosphorus and sediment loading to downstream water resources. Yahara WINS grants were received in 2016 for the Lacy Heights and Schumann Greenway/McKee Farms Park NW pond enlargement totaling \$25,500.
- **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.
- **Well pump replacement** – Pumps were replaced on three wells with efficient models.
- **Street sweeping** – The Streets Maintenance Crew swept 122 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 1085 lbs. of alkaline batteries and 15 lbs. of lithium button batteries. Cell phones and smart phones are now being 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 continue to process and compost yard waste (leaves, twigs, grass clippings, etc.). The high-quality compost is being made available to residents, and is used by the Parks Dept. and streets staff for restoration work on various city projects. Using our own compost and topsoil results in a significant cost savings.
- **Wood Chip Grinding** – Staff are regrinding wood chips at the Public Works Maintenance Facility to provide wood chips for resident and municipal use.
- **Shred Day Events** – About 16 tons of paper from residents was shredded for recycling in the spring and fall 2016. Altogether, the Shred Day Events helped to save ~270 trees.
- **Electronics Recycling Events** – Approximately 2,280 pounds of electronic items were collected at the spring collection event. On May 9, 127 residents turned in more than 700 electronic items for recycling, including 68 laptop and desktop computers, 70 cell phones, 23 printers, and 42 televisions.
- **Construction and Demolition Reuse/Recycling** – 271 permit applications were submitted in 2016.
- **Med-Drop Collection** ~1,387 lbs. of medication were collected from the Fitchburg Police Department's permanent MedDrop Box in 2016. Disposal conducted in conjunction with www.safecommunities.org.
- **Holiday lighting recycling** – Collected 172 gallons of holiday light strings for recycling.








- **Recycling Education** – Staff organized an event at an apartment community in King James neighborhood as part of an initiative to boost recycling rates at rental properties. Staff participated in two workshops for fifth-grade students at Leopold Elementary School to launch a parent-led lunchroom recycling initiative.
- **Online Forms** – The Finance Dept. is planning for online time reporting.
- **Organics Collection** – Continued to research the feasibility of an organic waste composting facility.


HEALTH


- **Fitchburg Agriculture Plan Update** – Encourages strategies to improve accessibility of local food to underserved residents.
- **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.
- **Senior Bike Club and Recreation Programs** – These programs encourage residents of all ages to stay active and healthy.
- **Tree planting** – Planted 247 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.
- **Bike-to-Work Commuter and Fitness Challenge**– 29 Fitchburg staff and elected officials participated in a commuter and fitness challenge with a new emphasis on health and wellness. Staff organized five monthly group activities (walk or bike to lunch) to encourage participation in a social setting.
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- **Bicycle Way-Finding Manual** – City staff helped create a regional Bicycle Way-finding manual.


LEGACY COMMUNITIES SUSTAINABLE STRATEGIES SCORESHEET


A copy of the Legacy Communities Sustainable Strategy Spreadsheet (Appendix 3 of the Legacy Communities Charter) is included as an attachment to this report for years 2011-2016. The baseline year (2011) was ~201 out of 536 points. We estimated ~233 points in 2012, ~254 in 2013, ~254 in 2014 and ~263 in 2015. **The goal for 2016 is ~268 points.**


Element	Max. Score	 GREEN TIER	<h2 style="text-align: center;">Sustainability Strategies Scoresheet</h2> <p style="text-align: center;">(Also known as Appendix 3 of GTLC Charter, Last Revised 02-08-2016 by Rick Ellertson)</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*
     			<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 encouraged.</p>					
T R A N S P O R T A T I O N	TRANSPORTATION DEMAND MANAGEMENT:							
	<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>							
	<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
	1	Set standards for placement and number (as function of intensity of use) for bike parking spaces.	1	1	1	1	1	0
	3	Commuter bike routes identified and cleared.	3	3	3	3	3	3
	10	League of American Bicyclists certification. (Bronze 5, Silver 7, Platinum 10)	0	5	5	5	5	7
	3	Funded and operating SRTS program (or functional equivalent) covering at least 10 percent of students.	0	1	1	1	1	1
	1	Conduct annual survey of students' mode of transport to school.	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
	5	Require large employers seeking rezoning to provide subsidized transit.	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
	<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
	3	Eliminate parking minimums from non-residential districts.	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
	5	Scheduled transit service at basic level (hour peak service within half-mile of 50 percent of addresses).	1	1	1	1	1	2
	10	Scheduled transit service at enhanced level (half-hour peak service within 75 percent of addresses).	2	2	2	2	2	3
	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	3	3	3	3	3	
5	Charge impact fees for new roads.	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	
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	
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	5	

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L A N D	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	3
	<u>Electric Vehicles</u>							
	1	Allow NEVs on appropriate roadways.	1	1	1	1	1	1
	2	Provide public charging stations	1	2	2	2	2	2
	<u>Vehicle Idling</u>							
2	Ban idling (more than 5 minutes) with local government vehicles.	2	2	2	2	2	2	
5	Ban idling (more than 5 minutes) community-wide.	1	2	3	3	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.								
<u>Infill Development</u>								
5	Identify priority areas for infill development, including those eligible for brownfields funding.	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
1	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application	0	1	1	1	1	1	1
<u>Walkscore</u>								
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
<u>Zoning</u>								
5	Adopt traditional neighborhood design ordinance (If population is less than 12,500)	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
8	Zoning for office and retail districts requires floor-area ratio > 1, on average.	0	0	0	0	0	0	0
5	Zoning code includes mixed use districts	5	5	5	5	5	5	5
8	Mixed-use language from Smart Code TBA.	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.								
<u>Canopy</u>								
3	Adopt tree preservation ordinance per GTLC standards.	0	1	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
2	Require trees to be planted in all new developments	2	2	2	2	2	2	2
2	Certification as Tree City USA	2	2	2	2	2	2	2
2	Certification as Bird City Wisconsin Community	0	0	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	1	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
<u>Water Protection</u>								
10	Establish 75-foot natural vegetation zone by surface water.	10	10	10	10	10	10	10
5	Inventory wetlands and ensure no net annual loss.	2	3	3	3	3	3	3
COMMUNITY ENERGY USE								

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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	0	0	0
1	Watt meters available to the public		0	0	0	0	0	0
10	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).		1	1	1	1	1	1
<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	4
1	State of Wisconsin Energy Independent (EI) Community designation.		1	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	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	Reduce motor fuels use for non-transit activities --		1	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
5	Streetlights operate at 75 lumens/Watt or higher		3	3	3	3	3	4
3	Stoplights are LED or functional equivalent		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
<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.		1	5	3	3	4	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
10	All new and renovated municipal buildings must meet LEED Silver or greater.		5	5	5	5	5	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	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
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
6	Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.		5	5	5	5	5	5
3	Infiltration and inflow reduction by 10%		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
<u>Local Government Use</u>								
2	Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)		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

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W A T E R	4	Develop a water efficiency and conservation plan for municipal buildings	0	0	2	2	2	2					
	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					
	5	Wastewater biogas captured and used in operations.	5	5	5	5	5	5					
	1	Financial assistance for sewer lateral replacements.	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	1					
	2	Explore partnership options with high-strength waste.	0	0	0	0	0	1					
	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					
	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	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	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	Work with commercial or light industrial businesses to develop stormwater pollution plans	0	1	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	5						
Waters, Wetlands, and Wildlife													
6	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	2	3	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						
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						
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	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	4	4						
3	Construction/deconstruction waste recycling ordinance	2	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						
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	5	5						
3	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	3	3	3	3	3	3						
4	Use anaerobic digesters to process organic waste and produce energy	0	0	1	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						
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						
W A S T E													

Element	Max. Score	 GREEN TIER	<h2 style="text-align: center;">Sustainability Strategies Scoresheet</h2> <p style="text-align: center;">(Also known as Appendix 3 of GTLC Charter, Last Revised 02-08-2016 by Rick Ellertson)</p>					City of		
			City of	City of	City of	City of	City of	City of		
			Fitchburg	Fitchburg	Fitchburg	Fitchburg	Fitchburg	Fitchburg	Fitchburg	Fitchburg
			2011 Scores*	2012 Scores*	2013 Scores*	2014 Scores*	2015 Scores*	2016 Scores*	2016 Scores*	2016 Scores*
2		Pay-as-you-throw system implemented by municipality or required of private waste haulers	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
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
8		Establish a Health Impact Assessments policy, including when an assessment is required and its scope	0	0	8	0	0	0	0	0
<u>Planning</u>										
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	0	0
3		Site schools in the Comprehensive Plan for accessibility with existing or new bicycle and pedestrian infrastructure	1	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	0	0
<u>Healthy Food Access</u>										
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	0	0
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	0	0
<u>Physical Activity and Access</u>										
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	2	2	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	1	1	2
3		Provide education and establish programming to encourage physical activity, especially by youth.	1	1	1	1	1	1	1	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	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	4
8		Implement a Complete Streets policy.	0	0	0	0	0	0	0	0
5		Provide recreation programs for youth, adults, senior citizens and disabled persons.	4	4	4	4	4	4	4	5
3		Establish a pedestrian safety task force.	0	0	0	0	0	3	3	3
<u>Housing</u>										
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	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	0
8		Establish a program to make housing more affordable.	0	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	0

Element	Max. Score	 GREEN TIER	<h2 style="text-align: center;">Sustainability Strategies Scoresheet</h2> <p style="text-align: center; color: red; font-size: small;">(Also known as Appendix 3 of GTLC Charter, Last Revised 02-08-2016 by Rick Ellertson)</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*
			<u>Crime Prevention and Other Harm Reduction</u>										
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	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	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	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	0			
<u>Climate Change</u>													
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				
<u>Noise</u>			0	0	0	0	0	0	0				
2		Adopt an ordinance, including conditional use permits, on noise abatement for various zoning districts.	1	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	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	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	2				
8		Adopt form-based codes or similar type design guidelines for healthy active living environments.	6	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	4				
536			199	233	259	247	256	275					
			37%	43%	48%	46%	48%	51%					