



City of Eau Claire



**Green Tier Legacy Community
2013 Annual Report**

I. Introduction

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

Our first annual report was conducted in 2012, the baseline year. For 2013, we have added new accomplishments and updated numbers around our green indicators. As part of our commitment to the program, the City agreed to develop a Sustainability Implementation and Monitoring Plan. This annual report, our Sustainability Chapter in the City's Comprehensive Plan, the 25x25 Energy Independence Plan, and the Green Team Report/Work Program all aid in fulfilling this requirement.

Included in Section Five, Sustainable Strategies 2013 Results, is a spreadsheet that captures our progress in six critical areas: transportation, land use, natural resources, energy, water, and waste. Using this program matrix, the City improved its sustainable actions from 52% in 2012 to 58% in 2013. It is important to note the spreadsheet does not capture everything Eau Claire or communities can do and may be revised as the program evolves to better address sustainable actions. Thus, the City uses it as a tool to evaluate our progress and as a reference in seeing what other charter communities doing.



II. Objectives

This list is a summary of the City’s declarations and commitments made towards sustainability. They serve to instill purpose, direction, and vision in trying to make certain that the ecological, social, and economic principles of sustainability are achieved within City operations and the greater community.

I. The commitment to sustainability is reflected in City’s official Mission Statement

“We work together to meet the public needs, provide for the common good, and deliver services essential for a healthy, safe, and sustainable community. We accomplish this through transparent and accountable governance, civic engagement, and collaborative problem solving.”

- **RESULTS:** This statement helps to ground employees to a clear sense of purpose in performing municipal work. It also creates organizational alignment, improved efficiency, collaborative spirit, and public service accountability.

2. City Council passed a State “Energy Independent Community” resolution (Nov. ‘08)

The resolution commits the City to obtain 25% renewable energy by the year 2025.

- **RESULTS:** The City has obtained over 20% renewable energy towards meeting the 25% by 2025 goal. Most of this clean energy is provided by our utilities per State Renewable Portfolio requirements, both of which have already successfully met. In 2010, a pilot grant from the Wisconsin Office of Energy Independence helped the City create an Energy Independence Plan, which contains a consultant study and action list on potential clean energy projects. One project completed in 2013 was a solar hot water array on top of Park Tower Apartments, the Eau Claire Housing Authority’s largest public housing building.



Installation of solar hot water at Park Tower Apartments

3. City Council adopted a Sustainability Chapter within the Comprehensive Plan (April '09)

The chapter contains community-wide policy implementation objectives on: energy, local food, environmental conservation, climate change, waste management, strong and healthy community, sustainable development, balanced transportation, greener economy, and sustainable local government.

- **RESULTS:** Policies and projects that have been implemented per this plan are listed in the department and green team sections of this report. The City Council also created an Advisory Commission on Sustainability (ACS) in December of 2013. This commission will work on and offer recommendations to the City Council and City Manager pertaining to sustainability projects. The ACS will help oversee efforts in the City's Comprehensive Plan - Sustainability and Health Chapters, and applicable Green Tier Legacy Communities work.

4. City Council Passed an Eco-municipality Resolution (May '09)

This Council action directed City staff to use The Natural Step's© (TNS) four system-conditions in evaluating projects and outcomes related to sustainability.

- **RESULTS:** Many employees have been trained in TNS, however the organization needs to continue to build a culture of sustainability in the way municipal operations are conducted.

5. City Council passed a resolution joining "Green Tier Legacy Communities" (July '12)

In 2012, the City was recognized in achieving superior environmental performance by being invited to join the program. As a charter member, the City must provide a Sustainability Implementation and Monitoring Plan (Green Team Report and Sustainability Chapter meet these obligations), provide an annual progress report, work on goals/projects, attend quarterly meetings, and network with other municipalities involved.

- **RESULTS:** The City continues to implement the strategies listed in the Sustainable Strategies matrix as noted in section five of this report. We have successfully networked and learned from other charter communities. As mentioned, we have improved our baseline in 2012 of 168 points or 52% to 188 or 58% for 2013.

6. City is an Eau Claire Area Chamber of Commerce "Green Business" (Feb. '10 & Dec. '13)

The City was one of the first certified members of the Eau Claire Area Chamber of Commerce's Green Business Initiative and obtained re-certification in late 2013 for 2014-2016. We also help support this initiative with a member of the City's Green Team serving on the Chamber's Green Business Committee.

- **RESULTS:** The City continues to further our relationship with the business community and advance sustainability by working together. There are 60+ certified area businesses. Some also participate in the State's Green Tier Business program.

III. Accomplishments

This section highlights what the City of Eau Claire achieved in 2013. The majority of acting sustainable is carried out via City departments. A great level of coordination between departments, depending on the project or program, also takes place. The 12-member interdepartmental Green Team continues to “*build a culture of sustainability*” within the organization since its creation in 2008.

Sustainability Initiatives by City’s Green Team

- Implemented an employee Farm-2-work program with a local Community Supported Agriculture farm. Program was filled within one day with 25 employees participating.
- Sent out monthly “Green Tips” newsletters via email, promoting sustainable actions at work and home.
- Started work on 2014 City Green Week campaign for employees and the community.
- Gave presentations and attended events to inform the public.
- Continued to maintain the City’s Green Website and “Green Up your Life” resource directory.
- Established an internal battery collection bin system for recycling at various locations.
- Installed a reclaimed wine rain barrel at the Paul Bunyan Logging Camp Museum.
- Served on the Chippewa Valley Sustainable Future’s Festival planning committee and Eau Claire Area Chamber of Commerce’s Green Business Initiative Review Committee.



Sustainability Initiatives by City Department

Administrative Services Department

- Electronically distribute City Council and other committees’ meeting packets and minutes to reduce paper use.
- iPads were issued to City Council members to reduce the need for printed meeting packets.
- Installed Wi-Max at a variety of places to provide coverage in the metropolitan region.
- Installed public Wi-Fi on 22 City Buses.

Public Works Department

- Phase II construction continued on an approximately \$40 million upgrade to the City’s waste water treatment plant. The upgrade incorporates a high level of sustainable design. Anaerobic digestion technology is being improved to capture 30% more methane for electric and hot water

use. Heat recovery alone will provide 70% of the plant heating requirement. Variable frequency drives are being installed on major equipment to operate them at efficient variable demands based on operating needs. The plant is environmentally innovative by using a biological phosphorous removal process that reduces residuals and chemical cost. Effluent reuse on a continuous basis is estimated at 740 gpm for greater water efficiency. Bio-solids are stabilized in the plant's digestion process and land applied to over 3,300 acres of DNR approved farms.

- Rebuilt booster station pumps at Jeffers Road and Abbe Hill Drive.
- Rebuilt generator at the Eau Claire Lift Station site.
- Chlorinated and surged five production wells and three wells at the Blue Valley Landfill site to improve well capacities.
- Use geothermal technology at the water treatment plant.
- Over 40% of water meters are now read electronically to monitor water usage.

- Implemented Google Transit, allowing passengers to plan bus trips easier.
- Procured three hybrid buses; that have saved over \$50,000 in fuel consumption. UW-Eau Claire students designed three biosphere bus-wraps to increase awareness on the environment.
- Installed new air-conditioning units at the Transit Center.



- Testing compressed natural gas (CNG). The City purchased three CNG capable vehicles in 2013.
- Continued to enforce city-wide anti-idling ordinances and internal fleet anti-idling policy.
- Added two additional antennas for AVL\GPS System to improve fleet routings and dispatching.
- Installed LED lighting along S. Barstow Street, at the temporary S. Barstow St. & Wisconsin St. parking lot, along 1st Avenue and Lake Street to 200 feet south of West Grand Ave.
- Swept all city streets 7.68 times. Half Moon Lake watershed was swept 16 times.
- Use Energy Star Portfolio Manager and GX Billing to monitor/reduce energy usage.
- Completed City Hall remodeling projects which included building envelope improvements.
- Completed Central Maintenance Complex projects that upgraded lighting service in parts room, replaced back-up building generator switchgear to equipment that can be monitored and controlled using the building automation system, re-lamped buildings C, D, and E. Also, replaced lighting and added motion detection at shops area.
- Completed Parks and Forestry Maintenance building projects that included re-lamping entire building and replaced office area A/C unit.

Three new hybrid buses were outfitted with ecological motifs

Parks, Recreation, and Forestry Department

- Replaced, at Hobbs Ice Arena, the original water heater in the O'Brien Rink with on-demand heaters which run only when water is used, saving more natural gas and utility expense.
- Over the last three years at Hobbs Ice Arena, rink temperature and comfort control has improved where now refrigeration equipment does not run as often/or as hard. This reduces the natural gas needed for heating other spaces.
- The City has been a Tree City U.S.A.® for 34 years. For 2013, 2,650 trees were planted (2,000 seedlings and 650 balled and burlapped trees). Public Works' projects included an additional planting of 85 street trees. Recycled 3,800 Christmas Trees during Merry Mulch Event, as well.
- Continued objectives of the City's Urban Canopy Management Plan for a healthy urban forest such as replantings and preemptive Emerald Ash Borer tree removal.
- Reestablished natural planting areas (prairie species) at Bayview (Half Moon Beach Area).
- Continued invasive species removal in park system- mostly buckthorn and garlic mustard.
- Half Moon Lake Task Force Implementation Committee continued lake treatments to improve the lake's water quality.
- After remediation, Owen Park restoration was completed with grass, trees, and trails.
- Fairfax Pool renovation was significantly completed; which included a new mechanical building, renovated bathhouse, new filter system, more efficient heaters, and VFD's on all five pumps.
- Lighting controls were updated at various ice skating rinks.

Community Development Department

- Amended the Mixed-use Overlay Zoning District for greater building arrangement flexibility.
- Completed the Health Chapter in the Comprehensive Plan to improve health related to the built environment.
- Lead the Sustainable Bag Committee and helped prepare their recommendations on reducing and recycling disposable plastic and paper bags.
- Assisted the City Council in creating an Advisory Commission on Sustainability.
- Coordinated City's Green Team meetings and Green Tier Legacy Community program work.
- Completed update to Five-year Parks Plan.
- Flood Plain map amendment completed.
- Updated Waterway and Greenway Development Guidelines.
- Continued to work on sub-area planning with adjacent towns to manage sprawl and protect farm land while trying to promote compact contiguous development.
- Began Historic Randall Park Neighborhood Plan update.
- Met with business groups to develop downtown bicycle corrals.
- Continued staff support for the Bicycle & Pedestrian Advisory Commission.
- Coordinated *Our City Spring Clean-up* event; having a record number of 400 volunteers.
- Four properties were acquired in the West Bank Redevelopment District.



- Rehabilitated 13 owner-occupied residential units, including the abatement of lead in 11 of those units and the abatement of asbestos in 1 unit.
- 26 low/moderate homeowners received HOME Weatherization Grants (13 – Eau Claire Housing Division & 13 – Western Dairyland).
- Three single-family homes were purchased and will be rehabilitated for the Homeownership Program.

Finance Department

- Implementation of Content Manager which allows electronic storage of financial records and created electronic budget documents.
- Implementation of website utility bill information system, payment by credit cards, and e-checks to reduce paper usage. This has reduced the number of checks that are printed and processed in the treasury by 1,000-1,500 a month.
- Produced water utility's Consumer Confidence Report online, eliminating printing/mailing costs.
- Completed Water Rate Case and filed with the PSC, including investigating conservation rates.
- Received two trail DNR grants; one for a former railroad right-of-way between Folsom Street and Third Street, and the other for various trail resurfacing projects.

Legal Department

- Provided legal and drafting assistance on the Advisory Commission on Sustainability and plastic and paper bag reduction ordinances.
- Identified public nuisance properties and worked with City departments in order to remove waste and excessive accumulation of items on both interior and exterior of those properties.

Human Resources Department

- Continued On-Line Vendor Registration/Bid Notification Services through the Onvia Demandstar website to reduce paper costs.
- Continued to use the on-line auction service to sell surplus property.
- Posted forms on the City's Intranet, with auto-fill capability, which can be emailed back to HR.
- Paper files have been eliminated with employee files all scanned and stored electronically.
- Reused City office furniture and other desk equipment before auctioning or donating.
- Continued to implement the Environmentally Preferable Purchasing Policy, with 58% green office supplies purchased from our vendor.
- Coordinated final adoption of Hazard Mitigation Plan.
- Health & Wellness Committee led a National Bike Challenge/bike-to-work campaign in which employees logged over 26,154 miles and reduced CO2 emission by over 6,618 lbs.

City/County Health Department

- Coordinated and administered a radon awareness campaign that included low cost test kits.
- Facilitated *Don't Dump It- Donate It* and *Spring Move Out* (University of Wisconsin – Eau Claire Student Move Out Project) to support community environmental health and safety.

- Assisted Planning Division on completing the Health Chapter in the City's Comprehensive Plan.

Police Department

- Increasing squad's gas mileage by replacing Crown Victoria models with Ford Utility Police Interceptors.
- Initiated a nuisance garbage project in the college residential area which helped reduce the duration of garbage left near the curb at the end of the spring semester.
- Use Crime Analyst to identify areas of high activity and concentrated efforts in those areas.



Ford 2013 SUV AWD Utility Intercept

Fire Department

- Use a fire retardant that is environmentally-formulated. It has zero hazardous chemicals and is bio-degradable.
- Evaluated all commercial and multiple family residential city properties to ensure the required fire inspections are conducted on regulated properties.
- The department promotes the Merry Mulch program, which starts the week after Christmas and runs for approximately 2-3 weeks. Residents can drop off Christmas trees at Carson Park and the City will grind them up for reuse.
- Converted forms to electronic use to save paper, which improves the EMS billing process.

Library

- Replaced all the library's original 1976 windows with more energy-efficient ones.
- Programmed all library lighting, with the exception of emergency lights, to shut off automatically at night when the building is not occupied. The building thermostats are also programmed to lower the tempter to 55 degrees during the same time period.
- Continued installation of LED lighting in selected interior areas of the library as well as the covered exterior lower level parking area. This will be ongoing until all lighting is replaced.
- Continued to grow and improve online media services (music, books, etc.).
- Introduced online registration for artists and artwork submissions which streamlined the workflow process for staff.
- As part of collaborative projects, continued hosting, support, and website development for Clear Vision, the Genealogical Research Society of Eau Claire, and the Chippewa Valley Museum, as well as document imaging and software services for the Museum.

IV. By the Numbers

City Land Area	
Year	Square Miles
2006	33.45
2007	33.47
2008	33.77
2009	33.88
2010	33.90
2011	33.90
2012	33.99
2013	34.26

Estimated Carbon Emissions: City Operations	
Bi-annual	Metric tons (CO ₂ e)
2011	28,514
2013	26,096

Estimated Energy Usage: City Operations*	
Year	MMBTUs
2006	154,129
2007	160,499
2008	167,265
2009	163,405
2010	146,483
2011	162,797
2012	154,259
2013	177,996

*2006-'09, '11 numbers adjusted from inaccuracies

Water Usage: City Operations	
Year	CCF (hundred cubic feet)
2007	55,929
2008	65,701
2009	61,301
2010	56,346
2011	59,104
2012	*74,720
2013	68,657

*Record-Breaking Heat.



Waste Generated: City Operations					
Year	Tonnage				Gallons
	Recycled*	Refuse*	Landfilled Street Sweepings	WWTP Landfilled Grit	Land Applied Bio-solids
2012	41.52	156.58	2,332.00	685.48	6,572,500
2013	45.00	159.83	2,481.69	500.74	6,265,000

*Does not include sites contracted and on-call service.

Transportation Miles: City Operations					
Year	Multi-use Trails	Bike Lanes	Sharrows	Streets	Transit Service
2012	27.00	2.67	1.37	344.52	666,409
2013	27.00	2.67	2.25	344.55	683,048





Transit Use: Community-at-large	
Year	Fixed & Paratransit ridership
2007	1,061,114
2008	1,090,203
2009	1,006,107
2010	1,024,703
2011	1,076,620
2012	1,039,921
2013	1,047,962

Green Office Supplies: City Operations	
Year	% Purchased
2008	63.0%
2009	57.7%
2010	*38.1%
2011	34.4%
2012	53.0%
2013	58.0%

* Supplier's criteria changed for what was considered green for paper (10% up to 30% recycled content).



V. Sustainable Strategies 2013 Results

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

L A N D U S E	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.	3	3	4	5
	1	Create land bank to acquire and assemble priority infill sites	1	1	1	1
	1	Develop an inventory of known contaminated properties for reuse planning, with possible GIS application	0	0	0	1
	<u>Walkscore</u>					
	10	Measure Walkscore at 10 random residential addresses per Census tract, compute average, and improve upon overall score	0	0	9	10
	<u>Zoning</u>					
	5	Adopt traditional neighborhood design ordinance (If population is less than 12,500)	n/a	n/a	n/a	n/a
	5	Zoning for office and retail districts permits floor-area ratio > 1, on average.	3	3	3	3
	8	Zoning for office and retail districts requires floor-area ratio > 1, on average.	0	0	0	0
	5	Zoning code includes mixed use districts	5	5	5	5
	8	Mixed-use language from Smart Code.	5	5	5	5
E N E R G Y	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 GILC standards.	0	0	0	3
	4	Set a tree canopy goal and develop a management plan to achieve it	3	3	3	4
	2	Require trees to be planted in all new developments	2	2	2	2
	2	Certification as Tree City USA	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
	2	Create community policy and BMP guidelines on minimizing chemical use during vegetation management of public and private properties.	1	1	1	1
	<u>Water Protection</u>					
	10	Establish 75-foot natural vegetation zone by surface water.	3	3	3	4
	5	Inventory wetlands and ensure no net annual loss.	3	3	3	3
	COMMUNITY ENERGY USE					
Community energy use strategies encourage energy efficiency and the use of renewable fuels to reduce total energy consumption throughout the community						
<u>Community Energy Use Policies</u>						
6	Use PACE financing	0	0	0	0	
1	Watt meters available to the public	1	1	1	1	
10	Adopt Residential Energy Conservation Ordinance (time-of-sale certification and upgrades).	0	0	0	0	
<u>Measuring Community Energy Use</u>						
4	Work with local utilities to calculate total electricity and natural gas consumption annually, beginning with the fifth year before entering the program.	4	4	4	4	
1	State of Wisconsin Energy Independent (EI) Community designation.	1	1	1	1	
MUNICIPAL ENERGY USE						
Municipal energy use strategies encourage municipal employees to conserve energy, preserve the environment, and decrease greenhouse gas emissions from municipal facilities, services, and vehicle fleets.						
<u>Government Energy Use Policies</u>						
5	Include transportation energy/emissions as criterion in RFPs for purchases of goods over \$10,000.	0	0	2	4	
3	Develop list of lighting, HVAC and shell improvements to raise Energy Star Portfolio Manager or LEED EBO&M score	1	1	2	2	
3	Reduce motor fuels use for non-transit activities --	1	1	1	2	
6	Provide transit passes at 50 percent or more off the regular price and/or provide parking cash-out options for local government employees.	0	0	0	0	
5	Streetlights operate at 75 lumens/Watt or higher	4	4	4	4	
3	Stoplights are LED or functional equivalent	3	3	3	3	
5	Municipal electricity purchases are at least 5 percentage points higher in renewable content than the statewide renewable portfolio standard requires. Calculation may include self-generated power and purchased offsets.	5	5	5	5	
<u>Measuring Government Energy Use</u>						
5	Complete EPA Energy Star Portfolio Manager spreadsheet for government energy use. Or score existing buildings with LEED EBO&M.	4	4	4	5	
2	Calculate annual government fleet use of motor fuels, in gallons of petroleum and biofuels, beginning with the fifth year before entering the program.	2	2	2	2	
10	All new and renovated municipal buildings must meet LEED Silver or greater.	0	0	0	10	

		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>				
W A T E R	6	Track water and sewer use annually, beginning with fifth year before entering program, and develop plan for reductions.	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
	2	Join EPA's WaterSense Program for water utilities or the Groundwater Guardian Green Sites program and promote them to local business.	0	0	0	0
	6	Use block rates and flat rates to encourage water conservation among residential, commercial, and industrial users.	0	0	0	2
	1	Financial assistance for sewer lateral replacements.	0	0	1	1
	2 to 6	Upgrade water utility equipment (e.g., variable frequency drive motors) to achieve energy efficiency.	3	3	4	5
	3	Infiltration and inflow reduction by 10%	3	3	3	3
	5	Wastewater biogas captured and used in operations.	5	5	5	5
	5	Plan for replacing all toilets using > 1.6 gpf and annual progress sufficient to reach 90 percent replacement in 10 years.	2	2	3	4
			<u>Local Government Use</u>			
	2	Install waterless urinals in men's restrooms at municipal facilities (city hall, parks, etc.)	0	0	0	1
	3	All outdoor watering by local government, excluding parks and golf courses, from rain collection.	0	0	0	1
	4	Develop a water efficiency and conservation plan for municipal buildings	1	1	1	2
			STORMWATER MANAGEMENT			
		Stormwater Management strategy options encourage the use of best management practices to achieve a reduction in the amount of harmful pollutants introduced to our streams, rivers, and lakes.				
3	Develop a regular street sweeping program to reduce total suspended solids	3	3	3	3	
3	Stormwater utility fees offer credits for best management practices such as rain barrels, rain gardens, and pervious paving	1	1	2	2	
2	Inventory all paved surfaces (e.g., by GIS mapping), and develop a plan for reduction	1	1	1	1	
2	Work with commercial or light industrial businesses to develop stormwater pollution plans	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	
		<u>Waters, Wetlands, and Wildlife</u>				
1 to 6	Replace concrete channels with re-meandered and naturalized creeks, wetlands, or swales	5	5	5	6	
3	Develop a system for identifying culverts that obstruct fish migration and install fish friendly culverts where needed	2	2	2	3	
4	Provide incentives for protection of green infrastructure, sensitive areas, important wildlife habitat, or for the restoration or rehabilitation of wetlands or other degraded habitats such as credit towards open space or set-aside requirements	3	3	3	3	
		WASTE MANAGEMENT AND REDUCTION				
		Waste Management and Reduction strategy options encourage municipalities and their citizens to divert organics and recyclables from landfills and properly dispose of hazardous materials in an effort to reduce waste in a community.				
3	Community waste stream monitored at least annually . Waste reduction plan prepared and updated annually	1	1	1	1	
4	Waste and materials management plan based on "zero-waste" principles, with specific goals, prepared and updated annually	0	0	0	0	
3	Construction/deconstruction waste recycling ordinance	0	0	0	3	
3	Mandatory residential curbside recycling pickup that covers paper, metal cans, glass and plastic bottles	3	3	3	3	
5	Develop a municipal collection program that encourages the diversion of food discards, yard materials, and other organics from landfills to composting or anaerobic digestion with energy recovery	2	2	2	4	
3	Develop and promote programs that dispose of household hazardous, medical, and electronic waste	3	3	3	3	
4	Use anaerobic digesters to process organic waste and produce energy	4	4	4	4	
3	Implement municipal ordinances requiring manufacturer takeback for fluorescent bulbs, thermostats and other mercury-containing devices	0	0	0	1	
2	Ordinances in place to reduce the usage of phone books as well as single-use shopping bags, styrofoam food containers and other disposable packaging	0	0	0	2	
2	Pay-as-you-throw system implemented by municipality or required of private waste haulers	0	0	0	0	
1	Use public education and outreach to promote recycling, backyard composting, product re-use and waste reduction	1	1	1	1	
325		165	168	188	234	
		51%	52%	58%	72%	