

MEMORANDUM

TO: City Council

FROM: Alfred D. Lott, ICMA-CM, CPM
City Manager

SUBJECT: ***Status Report***

September 13, 2018

Status Report

1. Green Bowie Veterans Day 5k

Planning is well underway for the first annual Green Bowie Veterans Day 5k, with less than 2 months until the November 10th event. Over 100 people have registered so far and Council will receive a follow up invitation in next week's package. For more information and to register today visit www.active.com and search Green Bowie. This City-sponsored 5k run/walk is free, but registration is required to receive a t-shirt. The event will start at 8 a.m. at the Bowie Town Center, will have a flag ceremony and keynote speaker, and will include many City and veteran-oriented groups.

2. School Beacons

The City has contracted with Lighting Maintenance, Inc. to replace the two (2) school beacons for Northview Elementary School. The first beacon replacement is expected to begin the week of September 17, 2018 (weather permitting) and expected to be complete in 3 days. The Contractor is scheduling the work around the school hours. All work will take place between 9am and 1pm. This will require lane closures, but all roads will remain open during this process. The second replacement will take place in the next 60 days. Staff will make another notification once the work has been scheduled.

3. Tree Planting Workshop and Tree Rebate Program

On Saturday, September 8, 2018, staff attended a tree planting workshop at Patuxent Nursery. The eight attendees learned about the importance of native trees, and received planting advice and information on available financial incentives. The workshop also served as the fall kickoff for the City's tree rebate program. Residents can receive up to \$100 back after planting an approved tree in their yards. The list of approved trees was updated for this year and now includes several cultivars of popular species. Information is available on the City's website or by contacting Ashleigh Armentrout (aarmentrout@cityofbowie.org or 301-809-3044).

4. Paper Shredding & Styrofoam Recycling Event

The The Public Works Department has scheduled a paper shredding and styrofoam recycling event at the Bowie High School parking lot on Saturday, October 6, 2018 from 8am-2pm. Residents can bring up to five tall kitchen bags or five archive boxes for shredding. Documents may be observed while they are being shredded. Styrofoam must be free of any debris (glue or tape).

5. Economic Development Committee (EDC)

The Bowie EDC held their regular monthly meeting Wednesday and heard a presentation from Datastory. Datastory is a Maryland business that uses GIS and an experienced staff to aggregate and analyze data from multiple sources to help better understand commercial real estate development needs and patterns. The next EDC meeting is Wednesday October 10, 2018 at 7:30 AM.

6. Equipment Purchase

The FY19 Budget allocates \$39,000 for the replacement of an asphalt roller to be used by the Streets division. The City of Tucson, Arizona, in partnership with the National Intergovernmental Purchasing Alliance Company (National IPA), established a cooperative contract for heavy equipment, parts, accessories, supplies and related services. The contract is available to other public agencies nationally, including state and local governments. After review of the contract between Tucson and Caterpillar, Inc., the Public Works Department recommends participating in the Tucson contract, as permitted by Section 62 of the Charter, "Cooperative Purchasing", for the purchase of an asphalt roller in the amount of \$36,039. The local dealer for Caterpillar is Alban Cat of Baltimore, Maryland.

As provided by Section 62 of the City Charter, this will serve as the required seven-day notice of intent to issue a purchase order to Alban Cat in the amount of \$36,039.

7. 2018 State of the Environment Report

Attached is a copy of the annual State of the Environment Report prepared by the Department of Planning and Community Development. The report tracks the major highlights of the Bowie Green Team, Sustainability Plan and Climate Action Plan. It also lists many other environmental and sustainability accomplishments achieved by the City in the last fiscal year ending June 30, 2018. Please let us know if you have any questions.

8. Communications Update

One of the Communications Division's goals for FY 2019 is to increase the use of video as a means of getting the City's message out. Sonia Srivastava was hired in late August as a Broadcast Specialist to help us accomplish that goal. This week she worked with other staff members to produce two videos to keep residents informed about emergency preparedness. One video provided information about how to build an emergency

preparedness kit and the other was an interview with Lee Cornwell on Wednesday about Hurricane Florence. Both can be viewed on the Bowie Government channel or from YouTube or on the City's Facebook page. The videos have been very well received – in fact the interview video has been viewed more than 2,600 times and has been shared 28 times in less than 24 hours. Look for many more videos over the coming months as we work to integrate video into all of our outreach efforts.

9. Bowie Health Fair – Saturday, September 15

Each year, the City partners with the Bowie Health Center to host the Bowie Health Fair. It takes place at facilities all along Health Center Drive, including the City Gym, the Senior Center, Woodward Estates, the Surgery Center, and the Fire Station. With the Health Center now part of the University of Maryland Medical System, this year's event promises to be bigger and better than ever.

Despite some hesitation earlier in the week, the organizers have decided to go ahead with the event on Saturday after Hurricane Florence took a southward turn.

The event includes free flu shot at the Gym, and a variety of free medical screenings and tests, including cholesterol, EKGs, glucose, glaucoma, HIV, hearing, lung health, memory, pulmonary function, vision, oral cancer and mental health. Participants can also receive a seated massage and have their blood pressure checked. There are activities for the children, health lectures, organizations sharing health and safety information under the big tent, and lots of give-away items.

The Health Fair takes place from 11 a.m. to 3 p.m. on Health Center Drive. For more details, visit www.bowiehealthfair.com.



CITY OF BOWIE

STATE OF THE ENVIRONMENT REPORT

FISCAL YEAR 2018

September 2018

Department of Planning
and Community Development

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Introduction

The *2018 City of Bowie State of the Environment Report* is a summary of the City's environmental actions and sustainability initiatives undertaken during Fiscal Year 2018 (July 1, 2017 through June 30, 2018). The report provides performance measurements for environmental programs and activities. It specifically highlights the Green Team 3-Year Action Plan, as well as many other noteworthy City actions undertaken in the past year.

This report has four appendices: Appendix A updates the 3-year Green Team Action plan. Appendix B provides an update on miscellaneous programs of various City departments. Appendix C details the progress on the Climate Action Plan, and Appendix D is the annual update on the City's Sustainability Plan.

Accomplishments

This section is organized by categories of the Green Team's 3-Year Action Plan. It includes accomplishments made by the Green Team as well as City staff, the Environmental Advisory Committee, and other residents and volunteers.

A. Natural Resources

- Construction on the first stormwater retrofit project was completed in the spring of 2018. The existing facility on Midwood Lane was converted into a large wet pond that will provide stormwater treatment for more than 50 acres of impervious cover.
- Design work began on the stormwater retrofits planned for the Kenhill Center. Partial funding for this work was provided by the Chesapeake Bay Trust and its partners US EPA Chesapeake Bay Program Office and the Maryland Department of Natural Resources.
- A container gardening workshop was held at the Bowie Senior Center in June 2018. There were more than 30 attendees.
- On June 16, 2018, the Green Team hosted a compost tour of four homes that have compost bins and/or participate in the curbside food waste program. The nine participants were able to discuss tips and tricks with successful composters.
- The City ordered additional compost bins and has sold 614 since the program began in August 2015.
- At the Bowie-Crofton Garden Club's spring plant sale on Saturday, April 28, 2018, staff sold discounted compost bins and provided information about Green Bowie programs, including bayscaping, certified habitats, and volunteer opportunities.
- The Natural Resources subgroup held a lawn care workshop at the Huntington Community Center in September 2017.

- The City’s Weed Warrior Program continued at Whitemarsh Park with 116 volunteers and six workdays. Since its inception, participants have removed English ivy from nearly 400 trees at the park.
- Contractors continued invasives treatment in three city parks – Tanglewood (2 acres), Popes Creek (2 acres), Church Road (8 acres). Treatment was completed at the Bowie Gateway Center stormwater pond. Ongoing maintenance invasives control continues at White Marsh Park and the perimeter of the Bowie Golf Course.
- The City was designated a “Tree City USA” community for the 27th consecutive year.
- Two tree planting workshops were held at, and in conjunction with, the Patuxent Nursery.
- The City held its annual Arbor Day celebration on April 21, 2018, at Acorn Hill Park, which was marked by a tree planting in honor of the day.
- The City planted 300 trees, including 295 along streets and five in parks.
- The Urban Greening Cost Share Program provided rebates to 12 residents who planted a total of 17 native trees in their yards.
- The annual stream cleanup was held on April 7, 2018, with 51 volunteers working in five streams. A total of 425 pounds of trash, 375 pounds of recycling and about 100 pounds of bulk items (shopping car, containers of used oil, suitcase) were collected.
- A special cleanup was held on Monday, April 9, 2018, with 18 staff, faculty and students from Bowie State University. This was one of the special events surrounding the installation of the University’s new president. More than 80 pounds of trash and bulk items and 100 pounds of recycling were removed from a forested parcel near The Shoppes at Bowie Town Center.
- A pet waste pickup station was installed at Belair Meadows Park, a passive park where many residents walk dogs.

B. Bowie Gardens for Wildlife

- The Bowie Gardens for Wildlife group held its annual tour of NWF-Certified Habitats on a rainy Saturday in June. This year’s tour featured community habitats such as the Bowie Interfaith Food Pantry and the Holy Trinity Episcopal Church School’s garden. More than 25 people visited at least one of the sites.
- The City continued working towards its first recertification as a Community Habitat through the National Wildlife Federation and currently has 222 homes, eight common areas (businesses, City facilities and HOA lands), and 12 schools certified.

C. Local Economies and D. Food, Health & Wellness

- The Green Bowie business program has expanded to a total of eight certified businesses.
- A business mixer was held on May 10, 2018, to provide an opportunity for interactions between existing and potential future certified businesses sponsored by the Greater Bowie

Chamber of Commerce and Weichert Realty. Staff have since talked to four attendees about certification.

- The Bowie Green Team continued hosting Walk Wednesdays with 13 events and 50 attendees.
- The City hosted two pit stops for the regional Bike to Work Day on May 18, 2018, with a total of 32 participants.

E. Energy and Climate

- In August 2017, two Bigbelly solar trash compactors were installed at bus stops on Belair Drive near Sussex Lane and Annapolis Rd.
- The City issued 124 lawn mower rebates, including eight reel (manual push), 43 electric, and 73 gas mulching mowers.
- Solar panels were installed at an additional 146 homes, bringing the total to 1,514 homes since FY 2011.
- The large solar field planned for a City-owned parcel on Maryland Route 214 has received all necessary approvals and permits. Groundbreaking is expected in March 2019.
- A 24-Kilowatt photovoltaic array was installed on the roof of the Kenhill Center.
- The Municipal Green Team continued meeting to discuss internal sustainability goals such as green purchasing and the potential for new solar projects. The group now provides a place to coordinate departmental responsibilities in the Sustainability Plan.
- The Energy Audit Program continued with 65 participants receiving a \$100 no-cost comprehensive energy audit through BGE's Home Performance with ENERGY STAR® program. These homeowners are now eligible for a variety of rebates from BGE of up to \$7,500 for approved energy improvement projects.
- The Senior Citizen Green Housing Rehab Program continued to provide home energy audits and energy efficiency updates to income-restricted senior homeowners. More than \$270,000 was awarded in FY18, which is estimated to save each homeowner about 15% on their energy bills.
- The City again joined the Prince George's County Municipal Collaboration to apply for grant funding from the Maryland Energy Administration's Empower Clean Energy Communities and the Department of Housing and Community Development's Community Legacy grant in FY 2017. During this cycle, nine low- to moderate-income residents received energy audits.

F. Green Schools

- The number of certified Green Schools (through Maryland Association for Environmental and Outdoor Education) increased to 15, including High Bridge Elementary and Tall Oaks High School that are just outside the City limits. This represents all but one public school in the City.

- The Green Team held a Green Schools forum at Samuel Ogle Middle School in November 2017, with about 30 attendees.
- Planning Department Staff continued outreach to schools by presenting to classes at Tall Oaks High (November 2017), Tulip Grove Elementary (February 2018), St. Pius X Regional (May 2018), and Tasker Middle (June 2018), as well as to students in the Youth Leadership Bowie program at City Hall (February 2018).
- On Saturday, April 27, 2018, held an Earth Week seminar where Dara Satterfield and Desiree Narango presented results of their study on the impact of trees and shrubs on food webs.

G. Outreach

- Staff continued posting about Green Bowie activities, events, and achievements to the City's Facebook page and the Green Bowie page on Twitter.
- Subscriptions to the Green Bowie quarterly e-newsletter have increased to 751 subscribers.
- The Green Team presented the second Sustainability Award to Harold Moline at the Bowie Green Expo.
- On June 2, 2018, 15 volunteers from the Green Team and the Sierra Club monitored Bowiefest to help attendees determine what items could be recycled and what items must be thrown in the trash. The Green Team hosted an informational booth as well.
- The Green Team organized the annual Earth Day Concert and Art Exhibit on April 28, 2018, held at Ogle Middle School with about 150 attendees.

H. Multimodal Connections and Public Spaces

- The newest Green Team subgroup met several times in FY18 and is working on a list of priorities to focus on for the next fiscal year.

I. Other Items

- On June 28, 2018, staff and the Green Team chair attended the annual Maryland Green Registry awards. The City was presented with the *MDE Leadership Award* by the Maryland Department of the Environment for its commitment to sustainability. The City's curbside food waste program was featured, and the City's attention to renewable energy installations, energy efficiency, and certified wildlife habitats was also noted.
- The Green Team and Environmental Advisory Committee held a retreat in November 2017 to discuss the potential for new initiatives such as installing Styrofoam recycling stations and recording cable access television spots featuring Green Bowie programs and activities.

- On June 23, 2018, Public Works held a paper shredding and Styrofoam recycling event, collecting seven tons of paper and 20 pounds of Styrofoam.
- Council passed resolutions recognizing several 2018 environmental initiatives, including Earth Month (April), Earth Day (April 22), National Bike Month (May), Bike to Work Day (May 18), Chesapeake Bay Awareness Week (June 3-9), and Pollinator Week (June 18-24).
- The City continues to participate in PJM's Demand Response Program, which requires switching to generator power at three City facilities on days identified by the electric utility as high demand power days. The City received \$19,650 in rebates for FY18.
- Storm drain marking continued with volunteers and Scout troops. As of FY18, more than 1,450 storm drain inlets across the City have "No Dumping, Drains to Waterway" medallions.
- The Police Department participated in the annual National Prescription Drug Take Back Day organized by the US Drug Enforcement Agency, collecting 300 pounds of prescription and over-the-counter medications.
- Tips for conserving water were added to the City's online water and sewer billing page.

Appendix A: Green Team Actions

Every three years, beginning in FY14, the City submits a 3-year action plan to the Sustainable Maryland Certified program at the University of Maryland. This plan and the Sustainability Plan form the blueprint for the work that the Green Team does throughout the year. The items from Year 2 of the current 3-year Green Team Action plan are summarized here, and are organized by subgroups.

Action	Date Completed	Results
<i>A. Natural Resources</i>		
Continue Weed Warrior Program	Fall 2017 & Spring 2018	6 workdays held with 116 participants.
Host Natural Lawn Workshop	Fall 2017	The Natural Resources Subgroup hosted a lawn care workshop at the Senior Center in March 2018.
Host Container Gardening Workshop	June 2018	A container gardening workshop was held at the Senior Center with more than 30 attendees.
Maintain Monarch Waystations & Install One	May 2018	The Natural Resources subgroup planted the third waystation on City-owned property at Belair Meadows, and added a birdbath and signage to the Senior Center waystation. Maintenance was completed at the Centennial Park waystation.
<i>B. Bowie Gardens for Wildlife</i>		
Promote NWF Wildlife Habitat Certification	Spring 2018	Held annual backyard habitat tour with 25 people visiting at least one of the four sites. Three new “NWF Certified Community” signs were installed at the Kenhill Center, Allen Pond Park, and Old Town Bowie
<i>C. Local Economies</i>		
Host Green Bowie Business Workshop	Fall 2017	The Greater Bowie Chamber of Commerce held a mixer where the certified Green Business program was promoted. Staff have followed up with four of the businesses that attended.
Support and Grow Green Expo	April 2018	50 exhibitors, 8 sponsors, and approximately 500 attendees including a kids’ corner with activities and presentation of the Second Annual Bowie Sustainable Citizen Award
Promote Green Bowie Business Certification Program	2017 & 2018	General outreach and information, including a YouTube video with the Chamber of Commerce, has led to 8 certified businesses.
<i>D. Food, Health & Wellness</i>		
Host Biking Activity	April 2018	A biking safety booth was provided at the Bowie Green Expo. The newly formed Multimodal subgroup has been working on outreach and meets monthly.
Host Local Food Fair	March 2018	This event was cancelled due to a lack of interest from local farmers
Continue Walk Wednesdays Events	July 2017 – June 2018	13 Walk Wednesday events held with about 50 attendees total
Promote Spring & Fall Plant Sales	Fall 2017 & Spring 2018	Assisted Bowie-Crofton Garden Club with publicizing spring & fall plant sales held in Bowie
<i>E. Energy and Climate</i>		
Provide HOAs with Home Energy Efficiency Info	Spring 2018	Contacted HOAs about scheduling presentations at Board meetings
<i>F. Green Schools</i>		
Maintain & Update School Resource List	Summer 2018	Resource list was updated and distributed to schools.
<i>G. Outreach</i>		
Promote Green Bowie E-mail Newsletter	July 2016 to June 2018	Six e-newsletters sent (now bi-monthly) with 751 subscribers.

Appendix B: Additional Performance Indicators

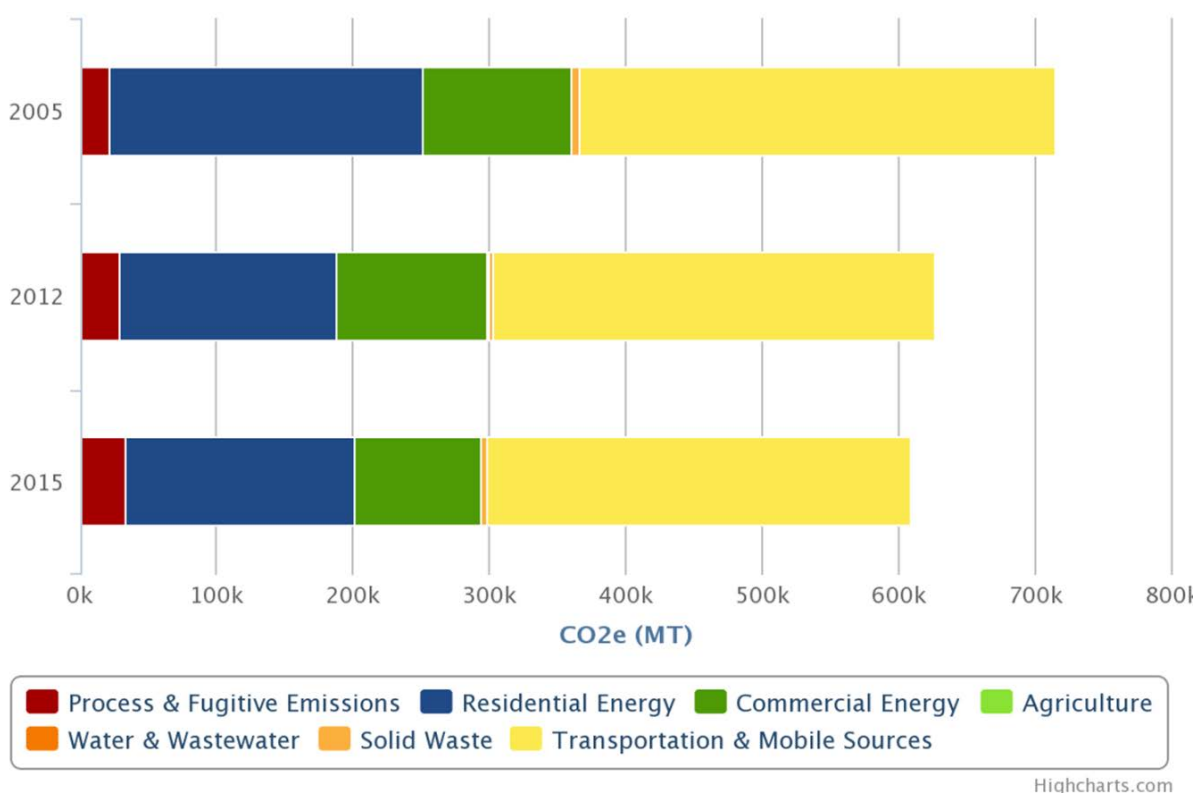
Indicator	FY14	FY15	FY16	FY17	FY18
Number of...					
Acres afforested	0	0	8	0	0
Buildings with LEED certification*	7	7	7	11	13
Certified NWF habitats*	135	183	229	236	242
Energy audit rebates issued by City*	49	149	248	348	413
Lawnmower rebates issued	89	58	48	73	116
Public schools with MAEOE Green Schools certification (includes Tall Oaks HS & High Bridge ES)*	2	5	10	12	15
Park trees planted	28	71	20	15	5
Rain barrels registered*	210	267	250**	281	284
Residential homes with solar panels (since FY2010)*	232	517	1,011	1,368	1,514
Storm drains with “No Dumping” markers*	500	711	958	1,312	1,452
Stream cleanup participants ⁺	75	72	63	44	69
Street trees planted	222	275	510	225	295
Trees planted under City rebate program*	50	77	86	109	116
Weed Warrior Volunteers	82	83	113	114	116
Recyclables collected during cleanups (in lbs)	1,010	775	450	300	505
Trash collected during cleanups (in lbs)	590	570	300	830	455
Square feet of turf converted to native landscaping*	24,500	28,000	31,000	31,000	31,000
Solid Waste Division Data					
Total number of tons collected	29,267	29,300	27,299	28,873	29,759
Number of tons land filled	19,267	19,167	19,802	19,875	20,584
Number of tons recycled	9,609	10,000	7,497	8,999	9,175
Percent of solid waste stream recycled	33	33	32	31	31
*Starting in FY14 stream cleanups were held only in the spring. Pounds of trash/recycling collected during any special cleanups mentioned in the Accomplishments section are included in this number. *Each year's number presented for these indicators is the cumulative total. **Starting in 2015, the number of rain barrels will not necessarily be accurate. Addresses of Lions Club purchases are no longer available, though many are likely in the City. This will be a self-reporting number by residents. Note - a data reporting error was corrected between FY 2015 and FY 2016, accounting for what appears to be a decrease in the number of rain barrels across the City.					

Appendix C: Climate Action Plan Progress

Reductions in greenhouse gas emissions will now be tracked by the Metropolitan Washington Council of Governments (MWCOG), as opposed to the previously used ClearPath software. According to MWCOG, Bowie has reduced emissions by 15% from a 2005 baseline analysis. MWCOG states:

The City of Bowie community-wide greenhouse gas (GHG) emissions decreased by 15% between 2005 and 2015.

- Despite an 8% growth in population, GHG emissions reduced from over 713,000 MTCO_{2e} (metric tons of carbon dioxide equivalent) in 2005 to just under 608,000 MTCO_{2e} in 2015.
- Per capita emissions decreased 21% between 2005 and 2015; from 13.5 MTCO_{2e} in 2005 to 10.7 MTCO_{2e} in 2015.
- In 2015, transportation and mobile sources accounted for 51% of GHG emissions and energy consumption (residential and commercial) accounted for 43%. Efficiency and switching to cleaner fuel sources contribute to GHG reductions.



Actions to Complete by 2020

Completed Actions

- 19 actions complete
- 4 of the 19 are completely done
- 15 of the 19 are completed but ongoing marketing or implementation of the program continues

Ongoing Implemented Actions

- 15 actions that are partially or mostly complete
- All of these are ongoing until completion

Other Actions

- 3 actions to be implemented in FY19
- 8 actions are being discontinued and will not be tracked in FY19
- 5 actions are also in the Sustainability Plan and updates can be found in that plan moving forward

SECTOR: Energy	Action	Status
	<i>Goal A. Promote and expand new and existing <u>residential</u> energy efficiency and conservation programs</i>	
	1. Enhance outreach efforts and increase participation in existing low-income energy audit and weatherization assistance programs.	Complete (achieved over 230 projects), ongoing
	2. Provide financial incentives for City residents that complete energy audits on their homes.	Complete (achieved over 1,000 assessments), ongoing
	3. Promote residential energy audits at Green Team events and on City website.	- Residential energy audit webpage created - Residential energy audits/Bowie Energy Audit Program promoted at 4 events in FY 2018 Complete, ongoing
	4. Develop common energy efficiency improvement recommendations for Levitt house designs. Distribute information to Levitt community homeowners.	- Implemented - Goal is to have 770 homes make improvements - Added Levitt Home Improvement Page to e-newsletter About 11% Complete (87 out of 770), ongoing
	5. Work with homeowner and condo association management companies that have properties to educate residents about energy efficiency.	- Implemented About 31% Complete, ongoing
	6. Promote energy efficiency programs available for rental and multi-family residence buildings.	- Implemented Mostly Complete, ongoing
	7. Provide information to potential homebuyers regarding the County's program for an Energy Efficiency Mortgage and utility bill disclosure ordinance.	- Added Energy Efficiency Improvement Info. to City Welcome Packets To Be Implemented in FY19
	8. Work with energy providers and the County and State to maximize use of existing financial incentives and other resources that assist residents in promoting energy efficiency.	Discontinued
	<i>Goal B. Promote and expand new and existing <u>commercial</u> energy efficiency and conservation programs</i>	
	1. Establish a Green Bowie business recognition program that promotes energy and greenhouse gas reduction efforts of local businesses.	- 8 businesses certified since 2015 *This goal is covered in the Sustainability Plan and will be reflected in that plan going forward*
	2. Promote the State of Maryland's Green Registry for businesses.	- Information about Maryland Green Registry posted on City website - Joining registry is a requirement of Green Bowie Business Certification and will be promoted continuously at all City events and via Twitter Complete, ongoing

SECTOR: Energy, cont	Action	Status
	3. Work with energy providers and the County and State to maximize use of existing financial incentives and other resources that assist businesses in improving energy efficiency.	Discontinued
	4. Benchmark and disclose energy performance and improvements of commercial buildings.	Discontinued
	<i>Goal C. Increase green building projects for new and existing buildings</i>	
	1. Establish a City policy regarding green building standards for commercial and residential buildings.	Discontinued
	2. Track and showcase green building projects throughout the community.	- City green buildings, green schools, and business highlighted on City website Complete, ongoing
	<i>Goal D. Increase installation of renewable energy projects</i>	
	1. Track and showcase innovative renewable energy projects throughout the community (city, schools, businesses, individuals).	- All renewable energy projects are tracked and showcased on the City's website as well as promoted on Green Bowie e-newsletter Complete, ongoing
	2. Increase number of residential and commercial solar systems installed by promoting solar technology.	- 1,512 residential homes now have solar panels - Goal is 24,758 kW of capacity - As of 2018 the City systems are at a total of 82 Kw. - The City systems annually generate about 98,821 kw or about 98 MW hours annually. Mostly Complete, ongoing
	3. Complete Solar Roadmap goals.	- 8 of 9 available solar roadmap goals complete. The City will not be pursuing the 9 th goal. Complete
	<i>Goal E. Decrease use of natural gas lawn mowers</i>	
	1. Incentivize purchasing of electric and push reel lawn mowers.	- FY 2018: 124 rebates were given (73 gas, 43 electric and 8 push-reel mowers). Complete and ongoing *This goal is covered in the Sustainability Plan and will be reflected in that plan going forward*

SECTOR: Transportation	Action	Status
	<i>Goal F. Reduce single occupant vehicle trips</i>	
	1. Work with major employers in the City to promote multiple-occupant commuting. Encourage car-sharing, Dial-a-Ride, RideSmart, RideFinders, preferred parking for carpooling employees.	- Goal is 349 people carpooling Partially Complete
	2. Investigate opportunities for additional commuter parking lots and more effective use of the existing park and ride lot on Northview Drive.	To Be Implemented - FY 2019
	3. Consider expanding shuttle services for senior and disabled residents.	- Goal is 174 daily ridership increase from 2007 About 34% Complete (59 out of 174 daily ridership increase)
	<i>Goal G. Reduce vehicle miles of travel</i>	
	1. Work with WMATA and Prince George's County to evaluate route restructuring for City areas, and expand new service, including The Bus, to employment areas and other generators.	Discontinued
	2. Promote walking and biking through events such as Bike to Work Day and Car Free Day.	Complete, ongoing *This goal is covered in the Sustainability Plan and will be reflected in that plan going forward*
	3. Apply the City's Development Review Guidelines and Policies in land use and planning and urban design, in order to create bike and pedestrian friendly communities.	- Guidelines are being used about 22 times per year through the Bowie Advisory Planning Board - Guidelines were updated in 2018 Complete, ongoing
	4. Increase bicycle and pedestrian mode share through bike-sharing systems, bike racks, bike lanes, pedestrian trails, reprogrammed traffic signals, and improved pedestrian access to bus stops, rail stations.	- Goal is 3,489 additional weekly bike trips To Be Implemented – FY 2019
	5. Continue to inventory pedestrian and bicycle facilities and identify pedestrian safety projects, (e.g. Safe Routes to School), sidewalk linkages and hiker-biker trail improvements to encourage walking and bicycling.	-City of Bowie Trails Map updated 2018 -Trails Master Plan forthcoming FY2019 -Bike rack installation plan forthcoming FY2019 Partially Complete, ongoing
	6. Encourage Transit Oriented Development at Melford and Bowie Regional Center.	- Currently working with Melford developers -2,623 new units forthcoming FY19 would be near the new transit Partially Complete, ongoing
	7. Work with WMATA to expand transit service along the MD 450 Corridor and to Old Town Bowie as identified by the Bowie and Vicinity Master Plan.	Discontinued
	8. Work with the State, County, and M-NCPPC to implement roadway infrastructure priorities identified by the Bowie and Vicinity Master Plan.	Discontinued

SECTOR: Transportation (cont)	Action	Status
	H. Increase electric vehicle use and the efficiency of existing transportation	
	1. Partner with MWCOG and other stakeholders to develop and increase electric vehicle and other alternative fuel vehicle infrastructure.	-EV charging stations at Semaconnect Inc., City Hall, Bowie Town Center, and Nissan of Bowie About 80% Complete (4 out of 5 installed), ongoing
	2. Promote the locations of alternative fuel charging stations.	- City website has link to EPA map of electric charging stations in the U.S. - Bowie Town Center and City Hall electric charging stations promoted on City web page Complete, ongoing
	3. Explore the possibility of a Zipcar drop off point at the Northview Park and Ride.	-EV powered ride-share company meeting in June 2018 -Open to possibilities as they arise and make sense for the City Partially Complete, ongoing
	4. Educate the public about eco-driving techniques.	Complete
	5. Explore the potential for reserving hybrid vehicle parking spaces at shopping centers.	Partially Complete, ongoing
	6. Investigate and apply Transportation Systems Management.	Discontinued
SECTOR: Waste	Goal I. Increase recycling rate, reduce the generation of waste, and promote reuse of materials	
	1. Provide additional opportunities for residents and businesses to recycle cardboard, glass, paper, and plastic products in the community, such as monthly shredding and Styrofoam collection events at revolving locations throughout the City.	- Paper shredding and Styrofoam collection event was held in spring of 2018 by City of Bowie Department of Public Works Partially Complete, ongoing
	2. Initiate a backyard composting program that provides rebates to residents for composting bins and rebates to homeowner or condo associations that create and use compost piles.	- Have sold 614 discounted backyard compost bins to City resident since the program began in 2015 Complete, ongoing *This goal is covered in the Sustainability Plan and will be covered in that plan going forward*
	3. Encourage use of reusable grocery bags.	- Farmers' Market reusable bags distributed annually -Webpages updated June 2018 Complete, ongoing
	4. Give educational notices to residents that are not recycling large items.	-In April 2018 staff did an on-site analysis of the amount of cardboard and Styrofoam waste in the Meadowbrook Section. There were 48 pieces of cardboard out on trash day that could have been recycled and 13 homes with large pieces of packing Styrofoam. Educational notices and follow up to be done in FY2019. Partially Complete, ongoing

SECTOR: Waste (cont)	Action	Status
	Goal I. Increase recycling rate, reduce the generation of waste, and promote reuse of materials	
	5. Work with the County to conduct one or more hazardous household waste collection days per year.	-No event was held in FY18, but when residents drop off at Public Works they bring it over to the County facility -Residents always have the option, as advertised on our website, of bringing their household waste to the County facility Complete, ongoing
	6. Educate public on services such as electronics recycling, hazardous waste collection and disposal, batteries, old paint and other hard to dispose of or recycle items for which the county offers services.	-Flyers with this information are available online and distributed at City events Complete, ongoing
	7. Explore cooperation with Prince George’s County in enforcing aspects of the Solid Waste Master Plan.	Discontinued
	8. Work with the Greater Bowie Chamber of Commerce to advise local businesses of County recycling requirements.	Complete
	J. Improve the carbon footprint of the waste collection system	
	1. Gain support from residents for once a week trash and recycling pick up.	- Public Works Dept. study completed in FY17 - Council presentation and educating the public completed in FY18 To Be Implemented- FY19
	2. Install a solar power trash compactor at Jericho Park as a demonstration project and promote this technology to commercial businesses.	- In FY18, the City obtained two duo sets of solar trash compactors from Big Belly (through municipal collaboration grant). -The compactors are emptied monthly and have collected more than 2,000 gallons of trash since their installation. Complete
	SECTOR: Land Use	K. Increase Tree Canopy
1. Increase tree canopy by providing financial incentives to residents, HOAs, and organizations for planting trees.		-17 native trees planted as part of the tree rebate program in FY18 Complete (achieved over 3,000 trees planted), ongoing *This goal is covered in the Sustainability Plan and will be reflected in that plan going forward*
2. Encourage the replacement of trees removed from residential properties.		-Tree planting seminars held in fall and spring in conjunction with Patuxent Nursery provide resident with information on planting as well as the City-offered Tree Rebate Program -Information on rebates available on City webpages and all social media Partially complete, ongoing
3. Publicize local tree planting grants available for businesses, churches, and local organizations.		Mostly complete, ongoing

Appendix D: Sustainability Plan Annual Report

The annual update for the Sustainability Plan is a stand-alone document but will be provided as an appendix in this report each year. It begins on the following page.



CITY OF BOWIE SUSTAINABILITY PLAN



ANNUAL REPORT
AUGUST 2018

The Sustainability Plan

Sustainability may not have been a common word a few years ago, but its full meaning is increasingly acknowledged by more people and with greater urgency. There is a clearer understanding of the need to plan and provide for a truly sustainable future. The City's Sustainability Plan was created because the City's planners recognize that specific strategies are needed to address an array of issues beyond those in the existing Climate Action Plan. The Sustainability Plan builds upon the Climate Action Plan and all of the other work that has come before it.

The City of Bowie's Mayor, G. Frederick Robinson, refers to Bowie as "the greatest city in Maryland." The City has a strong economy and an enviable quality of life for its citizens. As the City grows, its urbanization, diversity, and way of life will require adaptation, communication, and collaboration among all stakeholders. This plan is the result of a collaborative process with those stakeholders and reflects a commitment to implement a new vision for sustainability in the City of Bowie. The path to a sustainable future enhances what is already great about Bowie, and prepares the City and its residents to thrive in the face of change.

WHAT IS SUSTAINABILITY?

Experts define sustainability as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.” Consisting of three pillars, sustainable development seeks to achieve, in a balanced manner, economic development, social development, and environmental protection. As part of the public input process, the Bowie community defines sustainability in a number of ways as shown in the word cloud below.

Vision for a Sustainable Bowie

Plan Vision

The City of Bowie will be a diverse and vibrant community that is committed to its citizens, economy, and natural environment. It will be a community that successfully unites and integrates its neighborhoods and one that communicates openly with all stakeholders. It will support efforts that protect resources, improve health, increase connectivity, advance education, and expand business in order to continue providing a place to live and thrive for future generations.

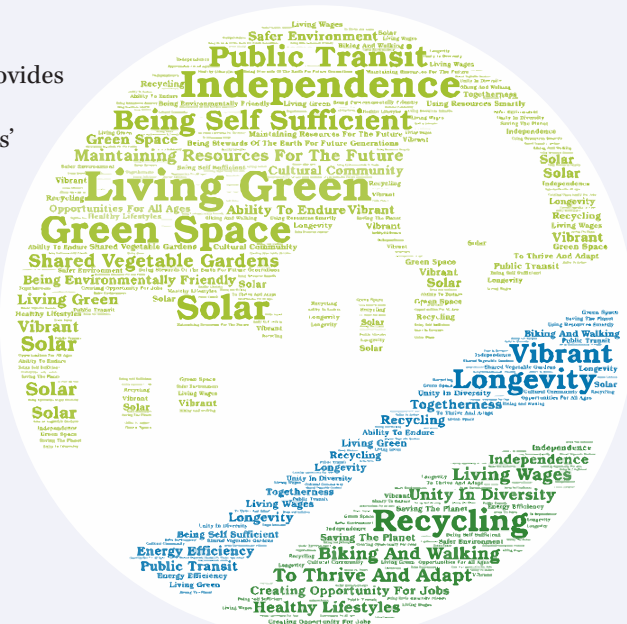
Mission for the City of Bowie

The City of Bowie, in partnership with the community, provides a cost-effective system of city services and facilitates compatible economic development that enhances citizens' quality of life within a positive and sustaining physical environment.

Vision for The City of Bowie

Bowie is a model city in partnership with state, county, and regional entities that:

- Nurtures a safe, united, and culturally diverse community in which to live, work, and play.
- Preserves the community's natural environment.
- Has economically vibrant commercial centers.
- Supports quality neighborhood schools.
- Has high-quality city services and infrastructure.





Progress Over the Past Year

Progress has been made on:



13 Goals



29 Strategies



45 Actions

In total, there are 25 goals, 57 strategies, and 103 actions that are designated to be completed in the short-term (1–2 years), mid-term (3–5 years), or long-term (6 or more years) time frame.



Jobs and Business

A robust business community is one that creates local jobs and expands the city tax base, has businesses that provide goods and services needed by the community, employs people from the community, and, in many cases, has businesses managed or owned by individuals who live in the community. A community that supports an independent, diverse, and green-minded business network will help create a local economy that recycles a much larger share of revenue back into itself—enriching the whole community. The goals in this section focus on increasing commercial occupancy, supporting small businesses, and getting businesses to go green.

SHORT-TERM STRATEGIES IN PROGRESS: 4 OF 4

Goals



Goal JB1: Achieve 100 percent occupancy of retail space and under 10 percent vacancy of office space in the City

➔ Retail occupancy is 96.5 percent and office vacancy is 16.2 percent.



Goal JB2: Increase the number of businesses participating in Bowie Small and Independent Business Programs annually from 46 to 100

➔ 519 businesses participating in Small and Independent Business Programs.



Goal JB3: Increase the number of participants in the Green Bowie Business Certification Program from 2 to 150.

➔ There are now 8 Green Bowie Businesses.

Highlights

- May 2018 mixer event hosted by Weichert Realty through the Greater Bowie Chamber of Commerce with four local businesses filling out interest forms and being contacted about Green Bowie Business Certification Program.
- Held eight meetings about Green Bowie Business Program as well as spoke to the Chamber of Commerce on their Business Show, which is posted on YouTube and their website.
- The Maryland Women's Business Center has helped start 4 businesses and sustain over 300.



Health and Wellness

An analysis of the USDA Agricultural Marketing Service's 1997 arrival data from the Jessup, Maryland terminal market found that the average pound of produce distributed at the facility traveled more than 1,685 miles, which suggests that your meal travels approximately that distance from farms to your plate. Though this varies based upon where you live, it is not uncommon to see strawberries from California in a store in Maryland. These "fresh foods" may be a few days old before they reach your grocery shelves. Local foods need not travel so many miles—they can often be harvested within a few hours or a day of being delivered to the farm stand, farmers market, or the grocery store's local produce section. Fresh food has a high nutritional value and a

high concentration of vitamins. You are likely to have more choices locally because more fragile varieties do not have to endure the trauma of shipping.

According to the County and state health departments and the Center for Disease Control and Prevention, the incidence of diabetes, heart disease, and obesity is higher in Prince George's County than in the State of Maryland and in the United States. These are conditions that can be controlled through policies, access to healthy food, and education. The goals in this section focus on participation in activities related to well-being, producing and consuming locally grown food, and health-related policies and programs.

SHORT-TERM STRATEGIES IN PROGRESS: 1 of 2

Goals



Goal FW1: Achieve 20 percent resident participation in programs that promote the production, distribution, purchase, and consumption of food that is sourced within 200 miles.



We continue to promote the farmers market on the Green Bowie Twitter. Also promoted National Farmers Market Week.



Goal FW2: Increase participation in physical fitness and wellness programs and events by 20 percent.



About 50 residents participated in Walk Wednesdays in FY 2018. The sustainability planner also held a 10-week social media campaign called Walk Bowie in which residents were encouraged to get outside. Each week a new, walkable Bowie location was posted with an image.

Highlights

- There was a compost tour with about 10 participants visiting 5 different community sites.
- Registration opened for the First Annual Green Bowie Veterans Day 5k. This is a City-sponsored event to promote health and wellness while celebrating our many veteran residents and staff. Registration is free and comes with an event t-shirt and race bib. The event will be on November 10, 2018 at 8:00 a.m..



Nature and Wildlife

Protecting and maintaining the natural environment for the benefit of people, plants, and animals is an important element of a healthy, beautiful community. Creating or enhancing green spaces, parks, and trails, as well as cleaning up litter in the City, ranked in the top priorities of the community engagement voting activity conducted as a part of this plan preparation. This indicates that Bowie's natural environment contributes to an aspect of the City that many residents and visitors are attracted to and highly value.

Bowie's previous Green Infrastructure and Environmental Infrastructure Plans gave the City a head start protecting its natural resources in 2003 and 2007. In 2012 and 2013, studies were conducted to determine how to best manage and improve forest conditions by increasing tree canopy, increasing forest diversity, and removing invasive species. The goals in this section address ways to implement tree planting, create and maintain habitat, and reduce litter.

SHORT-TERM STRATEGIES IN PROGRESS: 6 OF 8

Goals



Goal NW1: Protect, preserve, and enhance existing forest and tree canopy coverage to reach the 45 percent tree canopy goal.

➔ Tree rebates provided to 12 residents for a total of 17 native trees planted. Two planting workshops were held at Patuxent Nursery, one in the spring and one in the fall.



Goal NW2: Create native landscaping on 300 additional public and private properties to help improve water quality and create new habitats for wildlife.

➔ 11 of 300 new properties now have native landscaping.



Goal NW3: Remove invasive plant species from at least 300 acres of land.

➔ No goal update available yet.



Goal NW4: Increase participation in City cleanup and litter educational programs by 30 percent.

➔ No goal update available yet.

Highlights

- The City installed three new National Wildlife Federation signs to public property—one at Allen Pond, one at Kenhill Center, and one at the Old Bowie Town Park. these signs denote the City as being a Certified Community Wildlife Habitat.
- New monarch Waystation was planted at Belair Meadows Park in summer 2018. This is now the third waystation.
- The City's Weed Warrior Program continued at Whitmarsh Park with 116 participants and six work days. Work days are now open to 30 participants, up from the usual 25.



Communication

The purpose of communication varies from information and promotion to education and public safety. From a City perspective, it has the large task of meeting all of those purposes and reaching all members of a community. During the ImagineBowie campaign, extra efforts were made to reach all stakeholders, including those which have been hard to reach (African-American, Hispanic, and millennial demographics). Such efforts need to continue throughout the plan's implementation by expanding the City's use of electronic communication methods, while also increasing public participation in order to enter a new phase of communication. The goals in this section focus on engaging the community through various media outlets such as social media and e-newsletters.

SHORT-TERM STRATEGIES IN PROGRESS: 3 OF 4

Goals



Goal CC1: Increase City Alert System subscriptions from 4,907 to 10,000.

➡ Currently 6,154 subscribers



Goal CC2: Increase the reach of the City's social media from 6,800 to 16,000 people.

➡

City Facebook: 4,413	City Twitter: 2,408
Animal Control Facebook: 1,933	Green Bowie Twitter: 190
Police Facebook: 1,379	Police Twitter: 557
	Bowie Gym: 160
Total: 11,040	



Goal CC3: Increase Green Bowie e-newsletter subscribers from 588 to 1,500.

➡ Currently: 751

Highlights

- The e-newsletter is now bi-monthly, instead of quarterly.
- The Green Bowie Twitter account sent more than 150 environmental tweets.



Community

A strong community provides a sense of belonging, which enables individuals to look outside themselves and contribute to the welfare of others. Community and “sense of community” were consistent themes throughout the engagement process. Bowie residents embrace neighbor-to-neighbor interactions and opportunities to share ideas and problem solve together. People want to connect; it makes them feel like they are a part of something, and it improves their quality of life. People also feel good when they do something positive for someone else, or for something bigger than themselves.

A strong community needs residents, businesses, neighborhood associations, teachers, and organizations working together to encourage community stabilization, engagement, and empowerment. This section’s goals focus on bringing the community together through public gathering spaces, emergency service programs, public art, recognition, and neighborhood events.

SHORT-TERM STRATEGIES IN PROGRESS: 3 OF 8

Goals



Goal CT1: Create or enhance 10 public gathering spaces.

➔ No goal update available yet.



Goal CT2: Increase resident participation in Emergency Services programs from 100 to 300.

➔ As of FY 2018, 150 out of 300 residents have participated in Emergency Service programs.



Goal CT3: Increase the number of public art pieces from 7 to 20.

➔ Currently 7 – The eighth piece has begun installation at Centennial Park.



Goal CT4: Involve 500 residents in a City-led resident sustainability certification and award program.

➔ No goal update available yet.



Goal CT5: Involve 6,000 residents in events and programs that strengthen neighborhood connections.

➔ No goal update available yet.

Highlights

- City staff have posted information on the City’s website about emergency preparedness and building emergency kits. The City promotes an All-Hazards approach and promotes the County resources as well.
- The second annual Sustainability Award was presented to Dr. Harold Moline at the Bowie Green Expo in April 2018. The two current awardees and more about the award were added to the Green Bowie webpage.
- Community Services is working to continue installing benches and pet waste stations at City parks. In FY 2018 they began tracking where bike racks could and should be installed, with installation starting in FY 2019.



Education

Education drives action. Someone might not think twice about the rush of water and pollutants that go down the storm drains without someone pointing out the range of impacts from erosion, to habitat disruption, to impacts on the Chesapeake Bay. When a community shows that it cares and knowledge is shared in a common cause, much progress can occur. Driving action through education can happen at all ages, starting with our children in schools, through higher education, and on to formal and informal adult education. In the school environment, incorporating sustainability into the curriculum can make learning more fun, as problem-solving connects students to the real world in their backyards and in their neighborhoods. When they are engaged and excited about what they are learning in school, students take those lessons home. For example, if they are growing their own food and composting at school, they might encourage their families to do the same at home because it is fun and they understand the value.

SHORT-TERM STRATEGIES IN PROGRESS: 3 OF 5

Goals



Goal ED1: Achieve Green Schools Certification at all schools within the City limits.



There are now 15 Green Schools, as certified by the Maryland Association for Environmental and Outdoor Education including High Bridge Elementary and Tall Oaks High School that are just outside the City limits.



Goal ED2: Increase Green Bowie program awareness to 90% for residents over 18.



No goal update available yet.



Goal ED3: Provide a way for all community members in the City to report sustainability actions and have at least 2,000 participate in reporting.



No goal update available yet.

Highlights

- The Green Team's Green Schools Resource List was updated in 2018.
- The Bowie-Crofton Garden Club has started a green project grant, and the Green Team has assisted with promoting it.



Mobility and Connectivity

Bowie enjoys the benefit of convenient access to Baltimore, Washington, D.C., western Maryland, the Chesapeake Bay, and the Eastern Shore. Bowie Town Center serves as a transit hub with the nearby Park and Ride serving as a transfer station for nearly all of the buses serving the City. The MARC station provides another transit center at the north end of the City. Many actions in the Climate Action Plan address the need to develop transit-oriented communities, increase usage of public transport, and expand the City's biking and hiking networks to reduce per capita vehicle miles traveled.

However, more needs to be accomplished in terms of decreasing traffic by creating interconnected trails and sidewalks throughout the City. The Washington, D.C. metropolitan area, which includes suburbs in Maryland and Virginia, is ranked first nationally in the cost of traffic congestion per commuter, with congestion costing \$1,834 per commuter and causing 82 hours of delay annually. The goals in this section address increasing the City's Walk Score and encouraging more walking and biking trips.

SHORT-TERM STRATEGIES IN PROGRESS: 1 of 1



City residents take advantage of the trail located at Whitemarsh Park.

Goals



Goal MC1: Increase City's Walk Score from 25 to 50 and encourage more walking and biking trips.



Currently: 25

Highlights

- The City participated in Bike to Work Day in 2018. Thirty-two people registered and 18 (56 percent of registrants) participated, including one "ride-up" biker. There were 20 preregistered for the Old Town pit stop, with 15 in attendance (70 percent).



Water

Water is one of Earth's most valuable resources and it needs to be protected by keeping it clean and using it efficiently. When it rains, water runs off roofs, parking lots, streets, and lawns instead of soaking into the soil the way it did before development. This water (e.g. stormwater), along with everything it picks up along the way (fertilizers, oil and grease, litter, etc.), ends up in storm sewers and ditches that discharge to streams, rivers, and lakes. This process contributes to the presence of toxic contaminants in the Chesapeake Bay. Only 2.5 percent of the Earth's water is freshwater, and only 1 percent of that is accessible. To ensure future supplies of fresh, clean water, this precious resource must be conserved. The goals in this section focus on ways to save and clean water at a local level.

SHORT-TERM STRATEGIES IN PROGRESS: 3 OF 6



A new pet waste station installed at Whitemarsh Park.

Goals



Goal WA1: Implement practices and programs to save and clean water on 2,000 properties in the City.



No goal update available yet.

Highlights

- A new pet waste station was installed at Belair Meadows Park.
- Water conservation tips were added to the City's online bill pay page.



Recycling and Composting

Recycling and composting are two of the easiest and most familiar actions individuals can take to be sustainable and help their community. The City's current recycling rate is about 33 percent, but other nearby areas have reached a recycling rate of over 50 percent, and there is plenty of room for improvement.

Food waste presents a huge opportunity to reduce landfill waste, though it is often ignored. Home food waste results from meal preparation, clean up, unpacking foods, and discarding purchased foods or food that has been left uneaten during a meal.

In 2010, an estimated 133 billion pounds or 31% of food from U.S. retail food stores, restaurants, and homes—valued at approximately \$161 billion—went uneaten. Recycling and composting are also important actions in the Climate Action Plan, since these efforts reduce greenhouse gas emissions, but the goals in this section expand on the goals in the Climate Action Plan.

SHORT-TERM STRATEGIES IN PROGRESS: 2 OF 3
MID-TERM STRATEGIES IN PROGRESS: 1 OF 1



Curbside food waste collection bins getting ready for delivery.

Goals



Goal RC1: Decrease the tonnage of residential waste sent to the landfill by 30 percent.



No update available yet.

Highlights

- There have been 614 total residents that have started composting since the program began in 2015.
- The Food Waste program has expanded to seven participating neighborhoods on Race Track Road and there are currently 165 participants. Over 15,000 pounds of waste have been diverted from the landfill.



Energy and Climate

Energy and Climate are major topics for action in the Climate Action Plan adopted in 2015. However, it is a five-year plan, and this plan looks to 2026. Climate change will be an issue for many decades to come, and will need to be continually addressed. In 2020, the City will need to consider updating its Climate Action Plan. In addition, solar projects in Bowie are of high importance to continue and increase past 2020. Switching to renewable energy sources can drastically reduce greenhouse gas emissions, and solar has been positively received in the City, with solar capacity increasing by over 50 percent each year since 2010.

SHORT-TERM STRATEGIES IN PROGRESS: 1 OF 1
MID-TERM STRATEGIES IN PROGRESS: 1 OF 2



Residents attend a Bowie Solar Co-op information session at City Hall.

Goals



Goal EC1: Reduce greenhouse gas emissions by at least 20 percent.



Currently 15 percent reduction according to MWCOG.



Goal EC2: Increase renewable energy generation from 9 to 40 MW hour production.



Currently: Approximately 98 MW hours

Highlights

- The Kenhill Center received a 24 KW photovoltaic installation in spring 2018.
- The City systems now equal 82 KW total, with annual generation of about 98 MW hours.

Strategy Status

● Completed

● In Progress

○ Not Started

✘ Not Moving Forward

Strategy	Time frame	Status
GROWTH		
JB1.1: Continue to nurture a diverse and stable business environment that supports all community needs.	Short-Term	●
JB2.1: Support and foster small and independent businesses.	Short-Term	●
JB2.2: Start a Buy Local Campaign to support Bowie businesses.	Mid-Term	○
JB3.1: Organize two green business workshop or networking events per year.	Short-Term	●
JB3.2: Schedule in-person assessments with 10-15 businesses per year to identify ways to go green.	Short-Term	●
FW1.1: Create and maintain a community garden with plots on City property that residents can use to grow food.	Short-Term	○
FW1.2: Expand Bowie Farmers Market.	Mid-Term	●
FW1.3: Adopt a Community Food System Plan.	Mid-Term	✘
FW1.4: Create a vertical farm or food forest for residents to use.	Long-Term	●
FW2.1: Create a City-sponsored wellness initiative by partnering with local organizations.	Short-Term	●
NW1.1: Use social marketing to develop a tree planting campaign.	Short-Term	●
NW1.2: Enhance and maintain the City's current tree rebate program.	Short-Term	●
NW2.1: Achieve and maintain National Wildlife Federation (NWF) Community Wildlife Habitat Designation (at least 200 homes, 6 community sites, and 5 schools certified as wildlife habitats plus additional requirements).	Short-Term	●
NW2.2: Increase the number of certified Monarch Waystations.	Short-Term	●
NW2.3: Encourage resident participation in the Bay-Wise certification program.	Short-Term	●
NW3.1: Encourage the removal of invasive species from private land.	Short-Term	○
NW3.2: Remove invasive species from public land.	Short-Term	●
NW4.1: Host volunteer cleanups around the community.	Short-Term	●
NW4.2: Create an educational and public awareness campaign to sensitize residents to the negative impacts of litter on the environment.	Mid-Term	○

NOTE: "Complete" does not denote finished. Several complete programs continue to be implemented or marketed

Strategy	Time frame	Status
UNITY		
CC1.1: Provide 10 workshops per year about emergency responses for storms, flooding, etc. for residents and promote City Alert System at all workshops.	Short-Term	●
CC1.2: Encourage residents to sign up for City Alert at all City events.	Short-Term	●
CC2.1: Encourage residents to like or follow the City on social media at all City events.	Short-Term	●
CC3.1: Encourage residents to sign up for the Green Bowie e-newsletter on the spot at all Green Bowie events.	Short-Term	●
CC3.2: Change Green Bowie e-newsletter to a monthly distribution from quarterly.	Mid-Term	●
CT1.1: Investigate areas to create more green space.	Short-Term	●
CT1.2: Install more amenities in the public gathering spaces (interpretive signs, park benches, picnic tables, drinking fountains, etc.).	Mid-Term	●
CT2.1: Recruit and train more Community Emergency Response Team leaders.	Short-Term	✕
CT2.2: Offer home emergency kits for residents to purchase.	Short-Term	✕
CT3.1: Expand the City's Public Art Master Plan.	Mid-Term	○
CT4.1: Develop a citizen sustainability certification program that encompasses a range of sustainability efforts.	Short-Term	○
CT4.2: Provide an annual award to residents who make significant achievements in sustainability.	Short-Term	●
CT5.1: Hold quarterly community roundtables hosted by City and/or community organizations to discuss community issues.	Short-Term	○
CT5.2: Work with churches, non-profits, businesses, and other organizations to host diversity and cultural awareness gatherings and/or events.	Short-Term	○
CT5.3: Increase promotion, benefits and participation in the "Neighbors Helping Neighbors Program".	Short-Term	○
ED1.1: Provide biannual workshops to assist with meeting Green School requirements.	Short-Term	●
ED1.2: Partner with Bowie-Crofton Garden Club and the City's Education Committee to provide grants to schools that pursue green projects.	Short-Term	●
ED2.1: Develop an outreach campaign to reach audiences that are underrepresented or not represented in current program activities.	Short-Term	○
ED3.1: Develop a sustainability projects monitoring and tracking system.	Short-Term	●
MC1.1: Develop and implement a promotional campaign to bring awareness of existing trails for biking, hiking and family walks.	Short-Term	●
MC1.2: Expand existing trails for biking, hiking, and family walks into a safe interconnected network.	Long-Term	○

Strategy	Time frame	Status
PROGRESS		
WA1.1: Encourage the installation of rain gardens.	Short-Term	●
WA1.2: Encourage the installation of rain barrels.	Short-Term	●
WA1.3: Increase participation in the mulching mower rebate program for residents.	Short-Term	●
WA1.4: Increase resident awareness of practices and programs to save and clean water.	Short-Term	●
WA1.5: Create and adopt a Watershed Plan.	Short-Term	✕
WA1.6: Install five additional pet waste stations.	Short-Term	●
WA1.7: Encourage planting of native vegetation within the stream buffer.	Mid-Term	●
RC1.1: Enhance educational programs on household recycling and composting.	Short-Term	●
RC1.2: Increase the number of households that are composting to 2000.	Short-Term	●
RC1.3: Investigate a Food Recovery Program to collect food that would otherwise go to waste from restaurants, stores, and other places to give to local emergency food programs, such as the Bowie Food Pantry.	Short-Term	○
RC1.4: Install public recycling bins at all City parks and other public areas.	Mid-Term	●
RC1.5: Investigate implementing a Pay-as-You-Throw pricing structure.	Long-Term	○
EC1.1: Continue to implement the Climate Action Plan.	Short-Term	●
EC1.2: Evaluate and update the Climate Action Plan in 2020.	Mid-Term	●
EC2.1: Assist with developing a Community Solar Program for renters and low-income residents by organizing partnerships.	Mid-Term	○
EC2.2: Investigate ways to support solar battery storage projects for City facilities, residential properties, and businesses.	Long-Term	○
EC2.3: Investigate the feasibility of a renewable microgrid project.	Long-Term	○