MEMORANDUM

TO: City Council

FROM: Alfred D. Lott, CPM
City Manager

SUBJECT: ***Status Report - Amended*** DATE: September 8, 2017

Status Report

1. Preliminary Plan #4-17027 (South Lake aka Karington)
   The attached memo provides a Status Report update on the Karington development, now known as South Lake. A Preliminary Plan of subdivision will be filed in the near future to complete some changes to the mixed use concept plan, which has been evolving over the past year.

2. FY 2017 State of the Environment Report
   Attached is a copy of the annual State of the Environment Report prepared by the Planning Department. The report tracks the major accomplishments of the Green Team and lists many other environmental and sustainability accomplishments achieved by the City during Fiscal Year 2017.

3. 197 Resurfacing
   SHA has informed the City that the resurfacing project on Route 197 between Old Route 450 and Kenhill Drive will begin the week of September 11th. The work will be completed at night on a Sunday through Thursday schedule.

ADL/lfr

City of Bowie

15901 Excalibur Road
Bowie, Maryland 20716

MEMORANDUM

TO: City Council

FROM: Alfred D. Lott, CPM
City Manager

RE: Preliminary Plan #4-17027
South Lake (formerly Karington)
Status Report

DATE: September 6, 2017

As Council is aware, the Karington project (now known as South Lake) is currently under review for establishment of a Tax Increment Financing District involving both the City and Prince George's County. In 2016, City Council authorized the City Manager to execute an Annexation Agreement with Karington, LLC which is contingent upon tax increment financing. The City pledged its support for approximately 450,000-550,000 square feet of retail use, approximately 100,000 - 200,000 square feet of office use, approximately 390 hotel rooms and approximately 1,388 dwelling units, including 400 multi-family apartments, 216 condominium units, 491 townhouse units and 281 single-family detached units.

The development plan for South Lake has already undergone some minor changes, including converting some of the multi-family dwelling units to townhouse units and phasing of the required transportation improvements to coincide with the revised staging plan, as we reported to you in the Status Report of February 16th. On July 25th, the County Planning Board agreed to entertain a further reconsideration of the original Preliminary Plan of subdivision (#4-04035) to consider changes to site access from MD 214 (eliminating the intersection at Hall Road East, while maintaining a primary site access via Old Central Avenue, see Attachment #1) and re-routing of the Master Plan hiker-biker trail away from the 100-year floodplain. A reconsideration hearing is tentatively scheduled for the Planning Board's October 5th agenda.

If the revisions are approved by the Planning Board on October 5th, Karington, LLC intends to reconfigure the development plan within the northern portion of the site to provide 90 two-over-two multi-family units and 293 townhouse units not shown on prior plans. A portion of the previously approved subdivision plan will be replaced with Preliminary Plan #4-17027, resulting in a net increase in the total number of dwelling units in the project, from 1,294 units in the original approval to 1,476 units. The new dwelling unit total (1,476 units) is the same figure under review in the latest TIF proposal and represents 182 more units than the original approval in 2004. The City's Annexation Agreement supported a maximum of 1,388 dwelling units, or 88 fewer units than what is now specified in the TIF concept plan and Preliminary Plan #4-17027. The Agreement states that the City will support the mixed use proposal containing 1,388 dwelling units as well as any pending or future applications that are generally consistent with these plans. In the Agreement, the City supported a mixed-use project

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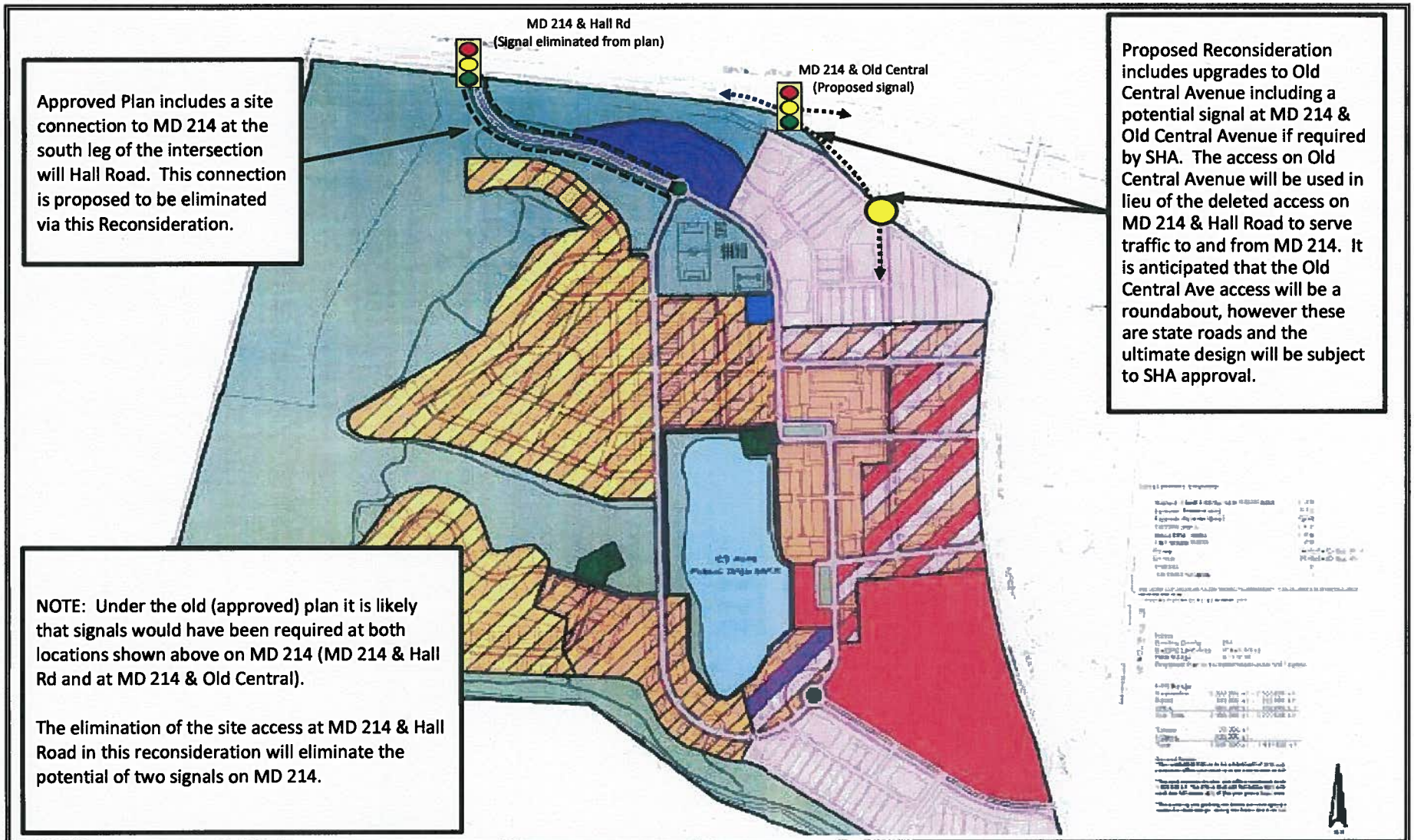
consisting of approximately 381 acres and including residential, retail, office, and hotel uses, with such reasonable amendments thereto to which the applicable authorities and the applicant may agree.

Based on our knowledge of the revised development proposal contained in the TIF application now under review and Preliminary Plan #4-17027, staff believes the current concept plan comprised of 1,476 dwelling units remains in substantial conformance with the approved mixed-use plan for the property. Staff also notes that the removal of the MD 214 access point contemplated in the pending request for reconsideration results in a net gain of developable area. In addition, the current TIF concept plan limits the amount of retail to approximately 475,000 square feet.

Last week, the City received an information mailing from the developer stating that they will be filing the new Preliminary Plan of subdivision (#4-17027). Because the plan is consistent with the mixed-use concept shown in the Annexation Agreement, staff recommends that Council support the overall increase in dwelling units represented by the Preliminary Plan, without holding public meetings or City hearings at this time.



Traffic Impact Analysis

LENHART TRAFFIC CONSULTING, INC.
645 BALTIMORE ANNAPOLIS BLVD, SUITE 214
SEVERNA PARK, MD 21146
www.lenharttraffic.com

Approved and Proposed Site Access and Circulation for this Reconsideration

Exhibit 2a

Attachment 1

CITY OF BOWIE

STATE OF THE ENVIRONMENT REPORT

FISCAL YEAR 2017

August 2017

Department of Planning and Economic Development

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Introduction

The *2017 City of Bowie State of the Environment Report* is a summary of the City's environmental actions and sustainability initiatives undertaken during Fiscal Year 2017 (July 1, 2016 through June 30, 2017). 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 year's report has been streamlined, with just Introduction and Accomplishments sections, and there are now 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 provides an annual update on the City's Sustainability Plan.

Accomplishments

The list below is grouped by categories of the Green Team's 3-Year Action Plan, and it includes accomplishments made by the Green Team as well as the City, the Environmental Advisory Committee and residents.

The greatest accomplishment for this fiscal year was the completion and adoption by Council of Bowie's Sustainability Plan. The plan included input from more than 1,000 residents and set 25 goals with 57 strategies and 103 actions to be completed over a 10-year timeframe. Progress will be reported in a stand-alone annual update document, but will be included as an appendix in this report.

A. Natural Resources

- A contract to retrofit the existing Levitt-era stormwater facility on Midwood Lane was awarded in June 2017. Construction is expected to start in early September.

- The City achieved Certified Community Wildlife Habitat status through the National Wildlife Federation (NWF), and currently has 216 homes, eight common areas (businesses, City facilities and HOA lands), and 12 schools certified.

- The Bowie Gardens for Wildlife group, now a part of the City's Green Team, sponsored its 6th annual tour of NWF-Certified Habitats, with 46 people visiting at least one of the six tour stops.

- The City's Weed Warrior Program continued at Whitemarsh Park with 114 participants and six work days. Since its inception, the program has helped remove English ivy from more than 380 trees at the park.

- A container gardening workshop was held at the Bowie Senior Center in June 2017. There were 23 attendees.

- Staff held a tree workshop on April 1, 2017, to educate the 20 attendees about tree planting and the specific tree species eligible for the City's tree rebate.

- The City planted 240 trees – 225 along streets and 15 in parks.

- The Urban Greening Cost Share Program provided rebates to 17 residents that planted a total of 23 native trees in their yards.

- The City of Bowie provided 250 free trees (up to four feet tall) to residents through Energy-Saving Trees, an Arbor Day Foundation program that helps conserve energy and reduce energy bills through strategic tree planting. The trees available for the program were paid for by BGE, and all 250 trees were given away.

- The City was designated a "Tree City USA" community for the 26th consecutive year.

- Contractors continued invasives treatment in four City parks (acres treated) – Tanglewood (2), White Marsh (15), Popes Creek (2), and Church Road (8). The three year contract targets all invasive species.

- Emerald ash borer mitigation continues. Most of the larger ash trees affected by this invasive beetle have been removed. Assessment and potential removal of smaller trees is underway.

- The Bowie Lions Club and the City hosted a rain barrel workshop on April 19 with five residents attending.

- The annual stream cleanup was held on April 1, 2017, with 44 volunteers working in five streams. A total of 830 lbs of trash, 300 lbs of recycling and many miscellaneous items (12 tires, five TVs, twin mattress and box spring, and more) were collected.

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

- In May 2017, the Greater Bowie Chamber of Commerce (GBCC) and the City's Economic Development Committee presented a Green Business award to Shepherd Energy for helping homeowners and businesses reduce energy consumption, conserve natural resources, save money, and establish a safe and healthy environment.
- The City, the Bowie Lions Club and the GBCC sponsored the 7th annual Bowie Green Expo on April 8, 2017.
- A "Foam Free" and recycling webinar was held by the City and Prince George's County with five attendees.

- The Bowie Green Team hosted a Community Supported Agriculture Fair and Pollinator/ Native Planting Workshop on February 25, 2017, at Bowie City Hall. The 60 attendees learned how to get fresh food from local farmers and how to use native plants to provide habitat for pollinators.
- Three more businesses achieved Green Bowie Business Certification for a total of five.
- The Green Team voted to create a Multi-modal subgroup to work on transportation and walkability issues.
- The Bowie Green Team continued hosting weekly community walks, with 14 events and 100 attendees between July 2016 and June 2017.

D. Energy and Climate

- The Energy Audit Program continued. All funding was used, providing 100 homeowners with comprehensive energy audits.
- The City issued 103 rebates for lawn mowers, including three push-reel, 24 electric and 76 gas mulching mowers.
- The City again participated in the PJM Demand Response Program by agreeing to switch to generators at three City facilities to curtail energy consumption on high demand days. The City anticipates receiving approximately $30,375 as a result of this participation.
- The Municipal Green Team continued meeting to discuss ways to meet the Maryland Smart Energy Communities goals and other internal sustainability goals.
- The large solar field planned for a City-owned parcel on MD 214 has partially met its first goal. Permits for the northern array were approved, while the southern array is still in the review process.
- The City once 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. Results from the FY 2016 program were 24 low to moderate income homeowners in the City received energy audits, and 17 of these also received a range of energy efficient home improvements.
- Solar panels were installed at an additional 388 homes, bringing the total to 1,434 homes since FY 2011.
- Volunteers from the Sierra Club and staff monitored a few trash and recycling stations at Bowiefest and placed educational signs showing what to place in the recycle bin vs. what to place in the trash.

- The Senior Citizen Green Housing Rehab Program continued to provide home energy audits and energy efficiency updates to income-restricted senior homeowners totaling more than $242,000, which is estimated to save each household approximately 15% on their energy bills.

- A second MD SUN Solar Co-op was started in the City of Bowie in January 2017. Several events were held to encourage participation including three information sessions, a mixer at a local restaurant, and a tour of a Bowie home with solar. A total of 100 people signed up to pursue solar with the co-op, and nine people have signed contracts as of June 2017.

- A bulk item recycling flyer was developed to inform targeted residents about the opportunities to recycle large items.

- A flyer was designed to promote the most common energy-efficient improvements specific to Levitt homes. They were distributed at more than 10 events.

- The City hosted a RideSmart Lunch and Learn on February 28, 2017, at Bowie City Hall and conducted a survey to gain information on how staff get to work.

- City staff helped coordinate a BGE Energy Savers Program presentation held on April 6, 2017, at a Tall Oaks Crossing homeowners' association meeting. There were 10 attendees at the meeting, and information was later included in the HOA's spring newsletter.

E. Green Schools and F. Other Outreach

- The City hired its first Sustainability Intern in October 2016.

- The City developed and Council adopted a community-wide Sustainability Plan in November 2016.

- There are now 12 Green Schools 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.

- The City's Sustainability Planner continued posting environmental achievements and successes on the City's Facebook page and Green Bowie twitter account to increase the connection to the community.

- The Environmental Advisory Committee, Bowie-Crofton Garden Club, and Prince George's Soil Conservation District hosted Dr. Doug Tallamy at the Bowie Center for the Performing Arts (BCPA) on April 21, 2017, where he discussed how homeowners and communities can landscape with and for nature. There were about 240 attendees.

- The Green Team organized an Earth Day Concert and Art Exhibit held at the BCPA on April 22, 2017. There were about 175 attendees and five performances.

- The Green Team hosted a fall and spring forum for teachers and parents. The fall focused on school gardens and seven different schools were represented. The spring workshop was titled "Composting 101," and 25 school representatives attended.

- Subscriptions to the Green Bowie quarterly e-newsletter have increased to 665 subscribers.

- Planning Department Staff continued outreach to schools by presenting to two classes at Tall Oaks High School (May 2017) and conducting a demonstration about vermicomposting to Tulip Grove Elementary's Green Team (January 2017).

- The City received a second grant to purchase compost bins at a reduced rate and sell them to residents. There were 280 bins ordered and 230 have been sold.

- The City achieved recertification for Sustainable Maryland Certified (SMC) and was the 2016 "Sustainability Champion" for highest score among all SMC communities, amassing 560 points on the application.

- The City's Energy Ambassadors, part of the Municipal Green Team, continued sending sustainability-related e-newsletters to their departments.

- The Bowie Lions Club and the City hosted a rain barrel and compost bin sale on June 17, 2017, at the Free State Shopping Center. The Lions sold two rain barrels, and the City sold four compost bins.

- The Green Team and the Environmental Advisory Committee held a retreat in September 2016 to discuss ways to achieve their sustainability goals.

- The Green Team created a new Sustainability Award Program that recognizes individuals, schools, or groups that contribute to making Bowie a greener and more sustainable community. The first award was presented to Gaye Williams at the Bowie Green Expo.

- The Green Team sponsored an informational booth at Bowiefest on June 3, 2017, to promote environmental awareness and Green Bowie programs.

- Council passed resolutions declaring April 2017 Earth Month in Bowie; April 22, 2017, Earth Day in Bowie; and May 2017 as National Bike Month.

- The City hosted two pit stops for the regional Bike to Work Day on May 19, 2017, with a total of 35 participants.

- The City held its annual Arbor Day celebration on April 29, 2017, at Acorn Hill Park, which was marked by a tree planting in honor of the day.

- Storm drain marking continued with volunteers and Scout troops. As of July 2017, more than 1,300 storm drain inlets across the city have "No Dumping, Drains to Waterway" medallions.

- On June 24, 2017, Public Works held a paper shredding and Styrofoam recycling event, collecting 12 tons of paper and 140 pounds of Styrofoam.

Appendix A: Green Team Actions

Action	Completed	Results
	A. Natural Resources	
Continue Weed Warrior Program	Fall 2016 & Spring 2017	6 work days held with 114 participants providing over 342 volunteer hours. More than 380 Whitemarsh Park trees cleared of English ivy as of June 2017
Host Natural Lawn Workshop	Feb. 2017	Combined Pollinator and CSA Workshop held; about 60 attendees for both sections; 3 speakers presented about native gardening for pollinators
Host Container Gardening Workshop	June 2017	A container gardening workshop was held at the Bowie Senior Center; there were 23 attendees
Maintain Monarch Waystation & Install One	May 2017	6 volunteers replanted the Monarch Waystation by City Hall during a 2 hour event; a new Monarch Waystation was installed at the Bowie Senior Center
	B. Bowie Gardens for Wildlife	
Promote NWF Wildlife Habitat Certification	Fall 2016 & Spring 2017	Achieved Community Wildlife Habitat designation; continued annual backyard habitat tour that had about 46 attendees that visited at least one of 6 sites
	C. Local Economies	
Host Green Bowie Business Workshop	Oct. 2016	Held foam free and recycling webinar for businesses with 5 attendees
Support and Grow Green Expo	April 2017	50 exhibitors, 8 sponsors, and approximately 500 attendees including a kids' corner with activities and presentation of first Bowie Sustainability Award
Promote Green Bowie Business Certification Program	June 2017	Designed and purchased USB promotional business cards that can be uploaded with green business resources
	D. Food, Health & Wellness	
Host Biking Activity	August 2016	A biking safety booth was provided at National Night Out
Host Local Food Fair	Feb. 2017	Combined CSA Fair and Pollinator Workshop held; about 60 attendees for both sections, 3 speakers from CSAs presented and had informational booths
Continue Walk Wednesdays Events	Aug. 2016 to June 2017	14 Walk Wednesday events held with about 100 total attendees
Promote Spring & Fall Plant Sales	Fall 2016 & Spring 2017	Assisted Bowie-Crofton Garden Club with publicizing spring & fall plant sales held in Bowie
Create Multimodal Connections Subgroup	May 2017	A Multimodal Subgroup was formed with approval from Green Team
	E. Energy and Climate	
Promote Solar Co-op	Winter 2017	Assisted with 3 Solar-Coop info. sessions educating neighbors on going solar
Provide HOAs with Home Energy Efficiency Info.	Spring 2017	Began contacting HOAs about scheduling energy efficiency presentations at board meetings
	F. Green Schools	
Host School Gardening Forum	Nov. 2015	A school gardening presentation and discussion were held; there was 1 presenter, 21 attendees, and 7 schools represented
Host Composting Forum for Schools & Parents	Feb. 2016	A composting 101 presentation and discussion were held for teachers and parents; there were 2 presenters and 30 total attendees with 25 being school representatives
Maintain & Update School Resource List	May 2017	School resource list was updated for 2017 and will continue to be updated
	G. Other Outreach	
Promote Green Bowie E-mail Newsletter	July 2016 to June 2017	Four e-newsletters sent; 665 total subscribers now have signed up

Action	Completed	Results
G. Other Outreach, cont		
Represent Green Team at Additional Local Events	Aug. 2016 to June 2017	Staffed booths at National Night Out, Bowie Health Fair, Bowie Green Expo, Bowie-Crofton Garden Club Plant Sales, Bowiefest, and Bowie Baysox game; Gave presentation at Tall Oaks Parent-Teacher meeting in Feb. 2017; Participated in Memorial Day Parade
Start Sustainability Award Program	Fall 2016	An award program was created to recognize individuals, schools, or groups that contribute to making Bowie a greener and more sustainable community
Promote Doug Tallamy Talk	April 2017	Dr. Doug Tallamy presented about how homeowners and communities can landscape with and for nature; there were about 240 attendees
Bowie Earth Day Concert	April 2017	175 attendees and 5 performances; Earth Day inspired artwork made from students from 3 schools and a local photographer were also on display

Appendix B: Additional Performance Indicators

Statistics from a variety of programs in the Planning Department and across City government.

Indicator	FY13	FY14	FY15	FY16	FY17
Number of…					
Acres afforested	0	0	0	8	0
Buildings achieving LEED certification in the City (2008-2010: 1 gold, 4 silver, 1 certified)	1 (gold)	1 (silver)	0	0	11*
Certified NWF habitats*	132	135	183	229	236
Energy audit rebates issued by City*	n/a	49	149	248	348
Lawnmower rebates issued	152	89	58	48	73
Green Schools certified through Maryland Association of Environmental and Outdoor Education*	1	2	5	10	12
Park trees planted	60	28	71	20	15
Rain barrels registered*	196	210	267	250**	281
Residential homes with solar panels*	68	239	510	1,046	1,434
Storm drains marked "No Dumping"* (2009 – 19, 2010 - 133)	325	500	711	958	1,312
Stream cleanup participants[+]	169	75	72	63	44
Street trees planted	165	222	275	510	225
Trees planted under City rebate program*	n/a	50	77	86	109
Weed Warrior Volunteers	n/a	82	83	113	114
Pounds of recyclables removed from streams	1,900	1,010	775	450	300
Pounds of trash removed from streams	1,410	590	570	300	830
Square feet of turf converted to native landscaping*	19,500	24,500	28,000	31,000	31,000
Solid Waste Division Data					
Total number of tons collected	30,120	29,267	29,300	27,299	28,873
Number of tons land filled	19,350	19,267	19,167	19,802	19,875
Number of tons recycled	10,770	9,609	10,000	7,497	8,999
Single stream tons recycled	4,799	5,062	5,325	4,777	4,800
Percent of solid waste stream recycled	32%	33%	33%	32%	31%

[+]Starting in FY14 stream cleanups were held only in the spring. FY16 includes Scouts that participated in a special cleanup.
**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

Estimated reductions in greenhouse gas emissions are made by entering available 2016 data into ICLEI's ClearPath and CACP Programs. The result shows **about a 7% total reduction compared to 2007 levels**

Residential Energy Emissions ↓ by 14%

Commercial Energy Emissions ↓ by 3%

Transportation Emissions – No Change

Waste Emissions ↓ by 23%*

*Estimate was corrected and then updated

48 Actions in City's Plan to Complete by 2020

Short-Term Action Progress

15 Short-Term Actions
- All have been implemented
- 15 of 15 actions are mostly complete or completed

Mid-Term Action Progress

20 Mid-Term Actions
- 1 are currently in progress
- 17 have been implemented
- 2 have been moved FY 2018

Long-Term Action Progress

13 Long-Term Actions
+ 2 Moved Mid-Term Actions
- 1 currently in progress
- 3 have been implemented
- 8 planned for FY 2018
- 3 planned for FY 2019

SECTOR: Energy	Action	Time-Frame	Status
	Goal A. Promote and expand new and existing <u>residential</u> energy efficiency and conservation programs		
	1. Enhance outreach efforts and increase participation in existing low-income energy audit and weatherization assistance programs.	Short-Term	– Goal 230 energy audits and weatherization projects – 151 audits/weatherization projects completed for seniors through the City's Residential Energy Efficiency Program, updated with FY 2016 info. and corrected – 101 audits/weatherization projects completed with MEA Municipal Collaboration, updated with FY 2016 info. **Complete (achieved over 230 projects)**
	2. Provide financial incentives for City residents that complete energy audits on their homes.	Short-Term	– Goal 1,000 households to complete BGE energy audits/assessments – 348 BGE HPWES audits completed through City incentive – About 1,550 BGE QHECS and HPWES audits completed in Bowie since 2009 (used Bowie area percentage and zip code only data) **Complete (achieved over 1,000 assessments)**
	3. Promote residential energy audits at Green Team events and on City website.	Short-Term	– Residential energy audit webpage created – Residential energy audits promoted at 3 City events in FY 2014, 4 in FY 2015, 7 in FY 2016, and 3 in FY 2017 – Residential energy audits will continue to be promoted at future City events along with Bowie's Energy Audit Program **Complete**
	4. Develop common energy efficiency improvement recommendations for Levitt house designs. Distribute information to Levitt community homeowners.	Mid-Term	– Goal is to have 770 homes make improvements – Energy Audit Reports from Levitt homeowners were collected as part of the FY 2016 energy audit incentive program – An informational handout about common energy efficiency improvements for Levitt homes has been developed and was distributed at over 10 events – An estimated 87 total residents have made efficiency improvements based on BGE incentive program data in Levitt areas – Need to investigate sending out FY18 mailing with handout and track responses to mailing **About 11% Complete (87 out of 770)**
	5. Work with homeowner and condo association management companies that have properties to educate residents about energy efficiency.	Mid-Term	– Goal to educate 1,034 households – Set up meetings in FY 2016 and track number of households reached – BGE Energy Savers Program presentation held on April 6, 2017 at Tall Oaks Crossing HOA meeting (10 attendees) and information was included in the HOA spring newsletter **About 31% Complete (320 out of 1,034)**

SECTOR: Energy (cont)	Action	Time-Frame	Status
	6. Promote energy efficiency programs available for rental and multi-family residence buildings.	Mid-Term	– Contacted 7 multi-family/apartment buildings and gave each information about BGE's multi-family energy saving programs – About 1,097 units have been completed as part of BGE multi-family program (used area percentage, apt. location info., and zip code data) **Mostly Complete**
	7. Provide information to potential homebuyers regarding the County's program for an Energy Efficiency Mortgage and utility bill disclosure ordinance.	Mid-Term	– Add Energy Efficiency improvement information to City Welcome Packets – Set up meeting with local real estate agencies and track number of meetings. **To Be Implemented – Moved to FY 2018**
	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.	Mid-Term	– Set up meetings with State/County and track number of meetings – Completed phone meeting with a coordinator of MD's Enhanced Weatherization program in Jan. 2017 and posted program information to Green Bowie Twitter account and on City website **Partially Complete**
	Goal B. Promote and expand new and existing commercial energy efficiency and conservation programs		
	1. Establish a Green Bowie business recognition program that promotes energy and greenhouse gas reduction efforts of local businesses.	Mid-Term	– Goal is to certify 65 businesses – 5 businesses certified since 2015 **About 8% Complete (5 out of 65 businesses)**
	2. Promote the State of Maryland's Green Registry for businesses.	Mid-Term	– 6 City businesses/organizations a part of Maryland Green Registry as of June 2016 – Link to Green Registry Program on City website – Joining registry is a requirement of Green Bowie Business Certification and will be promoted continuously **Complete**
	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.	Mid-Term	– Researched information about Clean Energy Business Programs and had phone call with a program coordinator in May 2017 **Partially Complete**
	4. Benchmark and disclose energy performance and improvements of commercial buildings.	Long-Term	– Track number of businesses using Portfolio Manager **To Be Implemented – FY 2019**
	Goal C. Increase green building projects for new and existing buildings		
	1. Establish a City policy regarding green building standards for commercial and residential buildings.	Long-Term	– Policy to affect 1,870,812 sq. ft. of building space **To Be Implemented – FY 2018**
	2. Track and showcase green building projects throughout the community.	Mid-Term	– City green buildings highlighted on City website – Green schools and businesses highlighted on City website – Investigate Green Building Tour **Partially Complete**

SECTOR: Energy (cont)	Action	Time-Frame	Status
	Goal D. Increase installation of renewable energy projects		
	1. Track and showcase innovative renewable energy projects throughout the community (city, schools, businesses, individuals).	Short-Term	– All renewable energy projects are tracked and showcased on the City's website – MWCOG Bowie solar presentation held on November 20, 2015 to regional leaders – During 2015 & 2017 solar co-ops, information sessions were held & Bowie residents who already installed solar on their homes provided information to those that are interested in solar – Notified Green Team volunteers about hosting opportunity for DC Metro Solar Tour in October – Held Bowie Solar Open House on in Feb. 2017 as part of 2017 solar co-op **Complete**
	2. Increase number of residential and commercial solar systems installed by promoting solar technology.	Short-Term	– Heavily promoted solar co-op from January through April 2015 – Worked with resident on solar opinion piece in March/April 2015 – Solar Co-op completed with 53 solar installations achieved in 2015 – Second Solar Co-op began in 2017 – As of June 2017, there are 1,434 residential solar systems that are, on average 8 kW in capacity and three businesses (Kohl's, Target, & Macy's) have a combined 1.8 MW of capacity – Goal is 24,758 kW of capacity – Solar installations increased by over 50% every year from 2010-2016 but growth was 38% in FY2017 **About 53% Complete (13,216 of 24,758 kW goal)**
	3. Complete Solar Roadmap goals.	Short-Term	– Remaining goal to encourage financial stakeholders to provide solar loan program, but after researching this, there are several existing programs available in the area **About 89% Complete (8 of 9 goals met)**
	Goal E. Decrease use of natural gas lawn mowers		
	1. Incentivize purchasing of electric and push reel lawn mowers.	Short-Term	– Publicized on City website, Facebook page, Green Bowie e-newsletter, and at Green Bowie events – As of June 2017, there were 15 push reel mower rebates issued and 42 electric mower rebates issued **Mostly Complete**

SECTOR: Transportation

Action	Time-Frame	Status
Goal F. Reduce single occupant vehicle trips		
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.	Mid-Term	- Goal is 349 people carpooling/vanpooling - Hosted RideSmart Employee Lunch & Learn at City Hall in Feb. 2017 - About 5 businesses in the City currently offer RideSmart programs to their employees - Provided one property manager in Bowie with RideSmart information in 2017 **Partially Complete**
2. Investigate opportunities for additional commuter parking lots and more effective use of the existing park and ride lot on Northview Drive.	Long-Term	- Investigate/install additional commuter parking lots - Get data of usage for Northview Park and Ride **To Be Implemented - FY 2019**
3. Consider expanding shuttle services for senior and disabled residents.	Long-Term	- Goal is 174 daily ridership increase from 2007 - Total ridership increased from 23,749 passengers in FY 2007 to 31,460 passengers in FY 2017 - About 65 daily ridership in FY 2007 and about 86 daily ridership in FY 2017 **About 12% Complete (21 out of 174 daily ridership increase)**
Goal G. Reduce vehicle miles of travel		
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.	Long-Term	- Goal is 523 additional daily riders from 2007 estimate - Held 1 transportation meeting in 2017 **Partially Complete**
2. Promote walking and biking through events such as Bike to Work Day and Car Free Day.	Short-Term	- Bike to Work Day event held every year since 2004 with about 537 total participants - Both promoted through City resolutions and City media sources using flyers, Facebook, Twitter, website, local newspapers, and cable ads **Complete**
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.	Short-Term	- Guidelines are being used - Bike and pedestrian guidelines applied when reviewing 4 development projects in 2015 and 4 in 2016 - Note: The City's Development Review Guidelines are set to be updated in 2017 **Mostly Complete**
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.	Long-Term	- Goal is 3,489 additional weekly bike trips from 2007 number **To Be Implemented – FY 2018**

SECTOR: Transportation (cont)	Action	Time-Frame	Status
	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.	Short-Term	- City staff currently completes these inventories - In 2015, the City completed an inventory and condition rating of the City's hiker-biker trail system. The inventory shows a listing of trails needing to undergo repair/reconstruction and missing links in the existing trail network - **Mostly Complete**
	6. Encourage Transit Oriented Development at Melford and Bowie Regional Center.	Long-Term	- Currently working with Melford developers - About 2,623 Melford/Regional Center units being created - Staff met with St. John Properties Sustainability Manager in January 2017 **Partially Complete**
	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.	Long-Term	**To Be Implemented - FY 2018**
	8. Work with the State, County, and M-NCPPC to implement roadway infrastructure priorities identified by the Bowie and Vicinity Master Plan.	Long-Term	**To Be Implemented - FY 2018**
	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.	Short-Term	- Goal to have 5 electric charging stations in the City - State incentives available for purchasing electric vehicles and charging stations - State electric vehicle incentives highlighted at Nissan of Bowie booth at Bowie Green Expo - 4 electric charging stations installed within City limits as of June 2017 – Bowie Town Center, Semaconnect, City Hall, Nissan of Bowie **About 80% Complete (4 out of 5 installed)**
	2. Promote the locations of alternative fuel charging stations.	Short-Term	- 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 Facebook page - 2 marketing strategies utilized to promote charging station locations **Mostly Complete**
	3. Explore the possibility of a Zipcar drop off point at the Northview Park and Ride.	Long-Term	-Goal to have 1,117 participants **To Be Implemented - FY 2018**
	4. Educate the public about eco-driving techniques.	Mid-Term	- Ordered 350 Green Bowie tire gauges, distributed all of them with eco-driving tip flyer **Complete**
	5. Explore the potential for reserving hybrid vehicle parking spaces at shopping centers.	Mid-Term	-Reserved hybrid spots currently at City Hall **To Be Implemented – Moved to FY 2018**
	6. Investigate and apply Transportation Systems Management.	Long-Term	**To Be Implemented –FY 2019**

SECTOR: Waste

Action	Time-Frame	Status
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 once-a-month paper shredding and Styrofoam collection events at revolving locations throughout the City.	Mid-Term	- Implemented - Goal to divert 300 lbs per person per year - Larger recycling bins provided to all Bowie households - By increasing recycling tonnage from 23% to 35% of the waste stream by 2014, it was estimated that the City would avoid 396 metric tons of CO_2 equivalent emissions – this is included in the municipal climate actions, however anything beyond 35% rate should be included in community climate reductions - One paper shredding event was held on Sept. 12, 2015 by County, promoted on City Facebook page, with others held by City on June 20, 2015, June 18, 2016, and June 24th, 2017. City events also were for the collection of Styrofoam. There were 5 tons collected for shredding in 2015 and 11 tons in 2016. Also, there was 60lbs of Styrofoam collected in 2016. **Partially Complete**
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.	Mid-Term	- Implemented - Goal to divert 300 lbs per person per year - Sold 550 discounted backyard compost bins to City residents who wanted to start composting since 2015 - Need to investigate homeowner and condo association composting sites **Mostly Complete**
3. Encourage use of reusable grocery bags.	Short-Term	- City webpage created with info about reusable bags - Green Team participated in baseline study for reusable bag use in FY14 – 8% reusable bag use as of 2014 - Highlighted reusable bag use in the May 2014 Bowie Spotlight - Large signs promoting reusable bag use at FY14 and FY15 Green Expo events - Nearly 500 bag tags encouraging reusable bags used were passed out at various Green Bowie events - Over 100 reusable bags passed out at each FY14, FY15, & FY16 Green Expo events with over 300 passed out in total - Farmers' Market reusable bags distributed annually - Highlighted in city-wide mailing about new County Plastic Bag Recycling Law **Mostly Complete**
4. Give educational notices to residents that are not recycling large items.	Mid-Term	- Implemented - Created education notice in June/July 2017 - Started distributing notices in Somerset neighborhood in July 2017 **Partially Complete**

SECTOR: Waste (cont)	Action	Time-Frame	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.	Mid-Term	- An electronics recycling event was held on Saturday, December 6, 2014, at Public Works with the County. Over 200 vehicles arrived at Public Works and approximately 6.25 tons of electronic equipment was collected and recycled - The County continues to host electronics recycling events on regular basis that are available to City residents - City received grant and hosted an electronics recycling event in October 2016 **Partially Complete**
	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.	Mid-Term	- A City-wide mailing that detailed new recycling laws as well as electronics recycling and hazardous waste collection went out in June 2015 **Partially Complete**
	7. Explore cooperation with Prince George's County in enforcing aspects of the Solid Waste Master Plan.	Long-Term	**To Be Implemented - FY 2018**
	8. Work with the Greater Bowie Chamber of Commerce to advise local businesses of County recycling requirements.	Mid-Term	- Worked with County to host and Chamber to promote webinar about Styrofoam ban and business recycling in Oct. 2016 - Distributed a few hundred foam free promotional flyers around at Bowie businesses, libraries, etc. **Partially 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.	Long-Term	- Public Works Dept. study completed in FY17 - Council presentation and educating the public to be completed in FY18 **In Progress**
	2. Install a solar power trash compactor at Jericho Park as a demonstration project and promote this technology to commercial businesses.	Mid-Term	- Solar powered self-contained compacting/recycling receptacles were proposed/investigated for City Hall and the Ice Arena in FY16 but were not completed - In FY17, the City started working with the Town of Bladensburg to obtain one or two solar trash compactors through grant program **In Progress**

SECTOR: Land Use	Action	Time-Frame	Status
	K. Increase tree canopy		
	1. Increase tree canopy by providing financial incentives to residents, HOAs, and organizations for planting trees.	Short-Term	- Goal 1,800 trees including street trees planted - 40 trees planted at All Saints Church in May 2014 - 109 trees planted as part of the City tree rebate program as of June 2017, the program began in FY14 - No Bowie participants in Tree ReLeaf as of June 2017 - About 2,282 street trees planted in Bowie from FY 2008 - FY17 (including 35 trees planted at Yellowstone Place in October 2015 as part of the County's Tree ReLeaf program), and the number of trees planted in FY15 to FY16 nearly doubled - About 775 trees planted though the Arbor Day Foundations' Free Energy Saving Trees Program since 2013 **Complete (achieved over 3,000 trees planted), but need to continue to increase resident, HOA, and organization tree plantings**
	2. Encourage the replacement of trees removed from residential properties.	Mid-Term	- Worked with Chesapeake Bay Trust to receive marketing grant for tree plantings/replacements in Bowie - $12,500 grant received in 2016 to support the creation of a marketing campaign to encourage tree planting - Pilot program completed in Spring 2017 that provided tree replacement information to residents in 2 neighborhoods **Partially Complete**
	3. Publicize local tree planting grants available for businesses, churches, and local organizations.	Short-Term	- Included information about Tree ReLeaf program in Green Bowie e-newsletter - Provided information to one business property manager - Provided information by e-mail to 23 churches - Provided Tree ReLeaf information to over 20 HOAs in the City limits by e-mail - No participants from Bowie yet in Tree ReLeaf as of June 2017 **Mostly Complete**

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 2017

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.

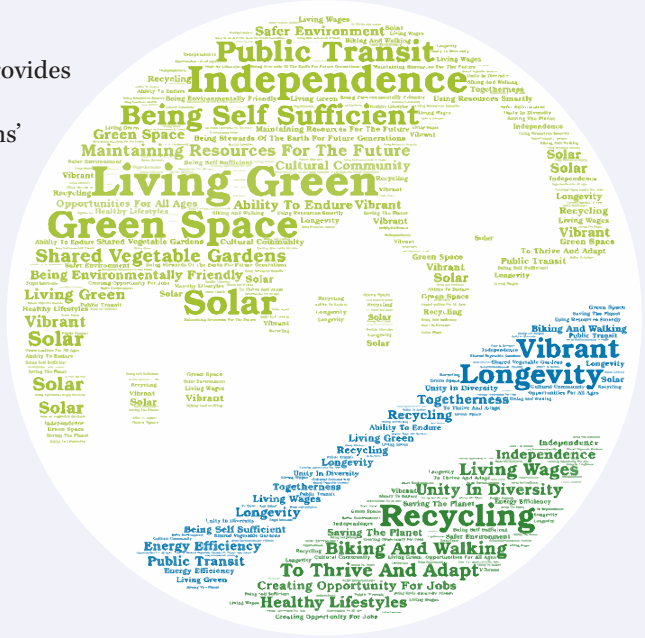
Mission for the City of Bowie

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.
- Has high-quality city services and infrastructure.



Progress Over the Past Year

Progress has been made on:

12 Goals

28 Strategies

44 Actions

In total, there are 25 goals, 57 strategies, and 103 actions that are designated to be completed in a short-term (1–2 years), mid-term (3–5 years), or long-term (6 or more years) time frame over the next 10 years.

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 92.9 percent and office vacancy is 19.6 percent.

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

63 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 is now 5 of 150 Green Bowie Business participants.

Highlights

- Worked with County to host and Chamber to promote webinar about Styrofoam ban and business recycling in Oct. 2016.
- Scheduled one in-person assessment and conducted two meetings with Bowie businesses to help identify ways to go green.
- There were 31 City clients that participated in the Maryland Procurement Technical Assistance Center Counseling Sessions and 32 Bowie clients that participated in the Maryland Small Business Development Center Program.

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.

Bowie Farmers Market attendance estimation is about 600–1,000 people per year. No goal update is available yet.

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

Over 100 residents participated in Walk Wednesdays in FY 2017 compared to 75 in FY 2016. That is an increase of over 20 percent.

Highlights

- City staff began initial research for creating a food forest.
- The Bowie Green Team hosted a Community Supported Agriculture Fair on February 25, 2017 at Bowie City Hall. There were 60 attendees that learned how to get fresh food from local farmers.

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.

No goal update available yet.

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

In FY 2017, 12 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

- New on-line application for tree rebate program is available at www.cityofbowie.org/treerebate.
- City staff implemented a pilot tree planting campaign in two neighborhoods with low tree canopy in spring 2017 (about 800 homes reached). The campaign involved providing tree benefit and planting information.
- The City of Bowie achieved Community Wildlife Habitat designation in November 2016 and applied for re-certification in June 2017.
- In FY 2017, 11 more homes have been certified as NWF Wildlife habitats and a new Monarch Waystation was installed at the Bowie Senior Center.
- The City's Weed Warrior Program continued at Whitemarsh Park with 114 participants and six work days. Since its inception, the program has helped remove English ivy from more than 380 trees at Whitemarsh Park.

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 5,610 subscribers

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

- City Facebook: 3,975
- Animal Control Facebook: 1,601
- Police Facebook: 719
- Total: 8,787
- City Twitter: 1,979
- Green Bowie Twitter: 129
- Police Twitter: 249
- Bowie Gym: 135

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

- Currently: 665

Highlights

- Several department Twitter accounts that will be followed by the City's main account have been introduced (Green Bowie, Police, and Bowie Gym).
- An iPad was purchased to use for electronic Green Bowie e-newsletter signups.

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 2017, 50 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 – No change

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 given several emergency service presentations over the past year, including to the Citizens Police Academy, the Public Safety Committee, and the Green Team, with a total of 50 people attending.
- City staff met with the Prince George's County CERT coordinator to discuss team creation, recruiting, training and retention and are presently exploring the feasibility of creating a team specifically for Bowie or adding to the Prince George's County CERT team with Bowie residents.
- City staff have posted information on the City's website about emergency preparedness and building emergency kits.
- There is a one public art piece in progress that will be installed at Centennial Park.
- The Green Team created a new Sustainability Award Program that recognizes individuals, schools, or groups that contribute to making Bowie a greener and more sustainable community. The first award was presented to Gaye Williams at the Bowie Green Expo in April 2017.

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 12 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 2017.
- 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: 0 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 2017. There were 37 people in attendance.

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 Whitemarsh Park.

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 Stregies 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.

Landfilled waste increased from FY 2016 to FY 2017

Highlights

- The City received a second grant to purchase compost bins at a reduced rate and sell them to residents. There were 280 bins ordered and 230 sold in FY 2017. There have been 550 total residents that have started composting with this program.
- The City started a 6-month pilot food waste curbside program in May 2017 in four neighborhoods (Overbrook, Victoria Heights, Yorktown, and Saddlebrook East) and there are currently 85 participants in the program.

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 Stregies 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: 7 percent

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

Currently: 13 MW

Highlights

- City staff worked with a UMUC graduate class to evaluate the City's Climate Action Plan.
- Progress continues to be made on the City's Climate Action Plan with 35 out of 48 actions implemented and a 7 percent emissions reduction achieved.

Strategy Status

● Completed ● In Progress ○ Not Started

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	○

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	○