

Recommended Actions For Evaluation-Municipal / Institutional / Business											
August 17, 2022											
Priority	Score	Action	Proposal	Rationale (give the case data, savings, reduction, etc.) for why we should do this action)	Pillar	Difficulty	Status	Owner	ETA	Community Examples (BHatch)	Author
1	172	Environmental Master Plan	Create a long range, strategic, and ambitious Environmental Master Plan (EMP) for the City of Attleboro that is official approved. The EMP will provide a blueprint for sustainable and resilient growth and is intended to be a comprehensive compilation of actionable recommendations based on six core pillars of focus to guide current and future city governing bodies.	Attleboro does not have a sustainability or resiliency plan to deal with climate change, growth, or development.	Sustainable Development Waste Reduction, Water Security, Renewable Energy, Conservation, Education	2	Underway	EMP Task Force and Advisors	3Q22	Climate Action Plans: Acton, Cambridge, Boston, Worcester, Ipswich, Brookline, Lexington, Westford, Belmont, Arlington, Marblehead, Amherst, Westborough, Weylessee, Greenfield, Gloucester, Winchester, Braintree, Weston, Hingham, Salem, Dedham, Beverly, Concord, Medford, Williamstown, Ayr, Wayland (https://massworksforclimate.org/databse)	MDavis
1	161	Web access to EMP	Post EMP and progress on city website	Like any municipal document supported by resident tax funding, the Environmental Master Plan should be fully transparent to the public. This venue can also serve as a means for members of the public to suggest improvements for future updates.	Education	1	Placeholder at https://www.cityofattleboro.us/1679/Environmental-Sustainability-and-Communi	Management Information Services	2Q22		MDavis
1	158	Identify and implement data collection, data sharing, and data monitoring tools to track EMP progress and compare with other municipalities who are implementing environmental/sustainability programs.	Identify technology tools (software, other programs) and metrics to track relevant data on an annual basis so as to measure progress made on City's EMP goals and objectives; provide relevant training to relevant City employee on same. Share tools and make them accessible to the public.	Establishes a baseline for which to evaluate applicability of proposed EMP and to evaluate progress on EMP in the future; provides transparency on EMP progress and holds the City accountable.	All			Planning Dept.			EMigliaccio
1	158	Identify other MA incentives/programs	Create City position whose job is to monitor environment-specific grant/fund opportunities from private and public sources. Perhaps scale this to a regional effort of the greater Attleboro area.	Seeking funding as a way to reduce the tax burden on residents.				Hypothetical Office of Sustainability, otherwise, Planning Department.		Green Community grants	AFowler
1	157	Comprehensive Plan	Add EMP to Comprehensive Plan.	The EMP is a strategic document, as is the Comprehensive Plan. The EMP should be included as a section of the Comprehensive Plan. Adding the to official Comprehensive Plan gives the EMP a little more teeth.	Education	1	No action	Planning Board	3Q22	East Longmeadow (https://www.mass.gov/doc/final-comprehensive-plan/download); Brookline (https://www.brookline.gov/242/Brookline-Comprehensive-Plan); Cambridge (https://www.cambridgema.gov/cdd/plandmasterplan/ClimateActionPlan)	MDavis
1	154	Green Bonds	Utilize low interest municipal Green Bonds to fund qualified green projects. (https://www.worldbank.org)	Green bonds are becoming a larger part of bank portfolio's. Where green project funding budget might be difficult to justify, consider taking a low cost equity bond. Green projects typically have a far shorter payback period than most other projects.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	2	Not started	Budget office		MA Clean Water Trust (2022);	JHawkins
1	154	HR job descriptions	Add to City job descriptions/qualifications applicable climate change, green or environmental skill sets, at least for senior non-elected personnel.	Hiring qualified personnel requires that the job described include required environmental qualifications. Job descriptions must include environmental expectations, e.g.: DPW workers should be familiar with pollution from catch basins and overflowing detention ponds and understand their job includes preventing such pollution. Every government employee and official should understand the need for adherence to environmental regulations and in order to preserve the future of the city.	Conservation, Water Security, Education, Sustainable Development, Renewable Energy, Waste Reduction	3	No action	Personnel			AFowler
1	152	Wetlands Protection	Increase Wetlands Protection Zone from 25' to 75' in new developments	Increase water security (protection, quality, quantity, flood control, flora & fauna safe guard, future uses) through increase filtering, flood buffer, and drought storage.				Water/Wastewater/DEP		Winchester	BHatch
1	150	Brownfield assessment	Identify and seek funding sources to redevelop brownfields	Brownfields are former industrial or commercial sites that likely contaminated or otherwise not fit for humans or wildlife. Brownfields can be given a new life and use. Attleboro has a long history of industry and other manufacturing and therefore has several contaminated sites that pose health risks (soil, air, water contamination), eyesores, and economic burdens. Fortunately, State and Federal governments have prioritized brownfields for redevelopment. Once targeted, and remediated, brownfields can become an economic engine (jobs, taxes, revenue), ripe for redevelopment, aesthetically pleasing, reduced health impact, and add to water security. https://dec.alaska.gov/sparcsp/brownfields/benefits-of-reuse/#~:text=Cleaning%20up%20and%20addressing%20contamination,life%20for%20the%20local%20community.	All	2	Several projects underway.	Economic Development Attleboro Redevelopment Authority (ARA)	4Q22		MDavis
1	150	Sustainable planning	Develop policies and programs that promote sustainable development planning: e.g., efficient use of water across the city and throughout the cycle of use (freshwater demand, sewer and greywater, and stormwater); transportation planning; urban heat island effects; low impact development; smart growth.	The Environmental Master Plan is not a one-time, stand-alone document. The EMP should be reviewed and updated annually with progress tracked. Climate change is an existential, moving target. Assessing progress of programs and adapting to these changes require continuous sustainable and resiliency planning.	Sustainable Development, Waste Reduction, Water Security, Renewable Energy, Conservation, Education	1	No action	Office of Sustainability	2Q23	Everett, Mills, Lynn, Hingham, Watertown, Dedham, Westwood, Southborough, Framingham, Natick, Weylessee, Chelsea. (https://www.mapc.org/get-involved/metrofuture-our-regional-plan/)	MDavis
1	144	Create a City webpage entitled "Our Environment".	A page to highlight the various ways the City interacts with land and environment, including parks, events (like litter cleanups) sustainability programs (run by schools or residents)), Con Com, and others, including a His Attleboro interactive map (see Brian's action below). And otherwise leverage the City website to educate, promote, and encourage awareness and participation.	Helpful to have a separate sub-page of the City website that links somewhat related environmental topics, and connects interested persons with opportunities (funding, volunteering, participation).	Education/Participation			Mayor's Office / Hypothetical Office of Sustainability.			AFowler
1	143	Charging Stations, powered by renewable energy	Install electric vehicle charging stations that are powered by solar or other renewable energy sources.	Electric Vehicle charging stations are necessary to power these vehicles. The energy source for the stations should be as sustainable as the vehicles that they are powering. Carports with overhead solar panels are commonly employed infrastructure. Making charging accessible encourages more EV driving, saving consumers approximately \$750 per year.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	2	State grant funding 2 stations. More details from Rep. Hawkins. RISE can provide charging stations.	Budget Office	3Q22	43 government-owned properties, including in Acton, Amherst, Belmont, Beverly, Boston, Brookline, Chelmsford, Chelsea, Chilmarr, Concord, Falmouth, Hamilton, Hingham, Ipswich, Lexington, Littleton, Methuen, Middleborough, Millbury, Norwood, Peabody, Quincy, Reading, Sharon, Sherborn, Taunton, Wakefield, West Boylston, Westwood, and Winchester. Private entities will also be installing points in Attleboro, Barns, Barchestown, Bellingham, Billerica, Boston, Boylston, Brewster, Bridgewater, Brockton, Brookline, Burlington, Cambridge, Canton, Centerville, Chatham, Chelmsford, Chelsea, Cheshire, Chicopee, Danvers, Dorchester, East Boston, East Falmouth, Eastham, Fall River, Framingham, Gardner, Great Barrington, Greenfield, Hanover, Holyoke, Hudson, Hyannis, Ipswich, Lakeville, Lenox, Leicester, Littleton, Lynn, Marlborough, Methuen, Milford, Millbury, Nantucket, Natick, North Easton, Northampton, Norwell, Orange, Oxford, Pembroke, Pittsfield, Raynham, Rochester, Sagamore Beach, Salem, Schuette, Somerset, Somerville, South Deerfield, South Dennis, Springfield, Sturbridge, Tewksbury, Uxbridge, Wakefield, Waltham, Wareham, West Boylston, West Roxbury, West Springfield, Westfield, Westwood, Whately, Williamsburg, Wilmington, Winchster, Woburn, and Worcester (https://www.mass.gov/news/baker-pollio-administration-awards-over-13-million-for-electric-vehicle-fast-charging-stations-at-150-locations-across-the-commonwealth~:text=Boston%20and%20the%20state%20of%20Massachusetts,install%20306%20direct%20current%20fast)	JWeber
1	143	Convert Attleboro's Municipal Gas-Powered Fleet to Electric Vehicles	50% of recommended municipal vehicles are electric by 2026. Continue increasing by 5% annually to have 117 vehicles replaced by 2036. Replace retired gas-powered vehicles with electric or hybrid. Start within selected departments (e.g., Police) maximizing currently offered state incentives.	Gasoline security or pricing in the US or regionally is far from guaranteed--just review history of international conflicts and OPEC's control of fossil fuel. Besides savings in gasoline, EVs have two dozen fewer systems to maintain, lowering ownership costs. EVs also have significant tax incentives to offset initial cost (which will reduce as volume increases). Specifically for Attleboro, converting 117 recommended municipal vehicles to EV over 15 years (2022-2036) could reduce GHG emissions by 25,128 Megatons and NOx emissions by 68,649 pounds over 29 years. This is equivalent to removing 5,428 passenger vehicles from the road for one year or equivalent to 414,616 tree seedlings grown for 10 years. With an estimated savings of \$2.9 million for fuel and \$2.3 for maintenance, Attleboro's total cost of ownership savings would be estimated at \$5.2 million by 2050.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	3	National Grid provided Fleet Electrification Assessment (1.13.22); Mayor and Police looking to pilot 2-3 EVs for Police Dept (4.22.22)	Budget Office, Planning Board	1Q24	Nantucket, Westport, Beverly, Ipswich, Marblehead, North Andover, Saugus, Swampscott, Somerville, Topfield, Lexington, Boston, New Bedford, Lowell,	JWeber
1	143	Create a dedicated webpage on the City website.	Clearly shows City's support of sustainability and resiliency planning.	Webpage gives folks a "landing zone" for our marketing materials, mission statement, contact information, and latest (public ready) literature and updates.	Education/Participation			Mayor's Office			AFowler
1	142	Climate action coordinator	Hire a climate action coordinator within the Office of Sustainability to initiate, manage, track, and report progress on related initiatives	Attleboro would benefit from hiring a climate action coordinator or "climate resiliency coordinator" to have the authority to work across municipal departments and coordinate efforts from local groups, organizations, schools, town committees and municipal programs that fall under the umbrella of the Environmental Management Plan. Without leadership to coordinate and communicate clearly identified goals and objectives, actions from these groups may be underappreciated, inefficient and duplicative. Resulting in missed opportunities for additional funding for initiatives important to Attleboro communities.	All	2	Not Started	City of Attleboro	1Q23	Metrose, Natick, Brookline, Newton, Arlington, Needham,	JWeber
1	142	Electric Vehicle Charging Infrastructure in New Development	Update city zoning ordinances to require commercial and residential new developments with off-street parking to equip a certain percentage of parking spaces with EV charging stations and consider requiring that all additional spaces meet EV-ready parameters. New standards will help increase the accessibility of EV charging equipment for renters when applied to multifamily apartment buildings. New standards would also apply to any new city owned facilities.	Even with expanding public access, however, research shows that over 80% of EV owners charge at home, followed second by charging at work, making it important for Attleboro to consider electric vehicle charging infrastructure as an integral part of new development. Cities and states have begun integrating requirements into building codes and local ordinances that parking spaces must include EV charging infrastructure or be "EV-ready," meaning the parking space has the conduit and wiring in place with sufficient electrical capacity to install an EV charger at a later point in time. Studies show that installing the infrastructure upfront during construction can reduce the cost of installation by 64-75% compared to retrofitting a building or parking structure after it integrate charging infrastructure at multifamily housing sites, ensuring that apartment buildings are designed to accommodate EV charging from the outset will be important for expanding access to charging stations for Attleboro's renters.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	4	Not started (At least one parking space in any new commercial construction with over 15 parking spaces must be made-ready for EV charging stations. An electric vehicle-ready space is defined as a designated parking space with a dedicated branch circuit for EV charging stations. Additional terms and conditions apply. (Reference Massachusetts General Laws Chapter 143, Section 94 and 95 and Massachusetts State Building Code 780 CMR 13.00 Subsection C405.10)	Planning Board	1Q24	EV grant cities (Boston)	JWeber
2	142	Obtain fleet of Electric School Buses (ESBs) for Attleboro Public Schools	Acquire electric fleet of school buses for Attleboro Public Schools.	The effects of diesel exhaust are both dangerous & inequitable, as low-income students plus students of color are disproportionately affected by diesel exhaust pollution, a known carcinogen. By electrifying school buses, we can help remove pollution from their environment 180 days or more a year. School districts and fleet operators have now committed 12,276 electric school buses in 38 states as of 6/20/2022. Funding sources include the Infrastructure Investment and Jobs Act, with \$2.5 billion allotted to help school districts adopt zero-emission school buses whether through purchasing new equipment or converting older models from diesel to electric and alternatively fueled. (Dataset of Electric School Bus Adoption in the United States. https://datasets.wri.org/dataset/electric_school_bus_adoption)	Renewable Energy, Conservation, Waste Reduction, Education	3	Not started - Bus contract with H.L. Bloom	Attleboro Public Schools, Planning Board for Infrastructure	3Q24	Arlington, Springfield, Haverhill, Vineyard Haven, Quincy, Boston, Beverly. Municipal Fleet, Electric buses	JWeber
2	140	Electric Vehicle charger installations in private and public lots	Lead an education and outreach campaign across businesses and commercial lots in Attleboro, sharing information on available tax credits, rebates, and grant programs to support EV charger installation. Pair financing information with testimonials and case studies from other local businesses who have installed EV chargers.	Charging one's EV takes more planning than filling up a gas tank, but with the growing demand and incentives for EV's, public charging is becoming a more common site. A widespread, robust, and visible network of electric (EV) charging stations makes electric vehicle ownership easier. It also gives people the confidence that chargers are accessible and that EVs can be a reliable and preferable vehicle option in Attleboro, in other words, the visibility of charging stations at highly frequented locations such as shopping centers, grocery stores, and public lots helps to accelerate EV adoption.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	2	Started (data for how many chargers are currently in Attleboro)	Planning Board	1Q24	Cohasset, Nantucket, Westport,	JWeber

2	140	Sustainable Development	Pursue a strategy of Sustainable Development going forward. Create an Excel that will metric the Cost / Benefit of new developments (residential, commercial, industrial). The CB would have two tabs. Financial & CO2. The goal would be net zero (i.e. sustainable development, no profit/deficit, no environmental impact).	As available land decreases, costs for services increase, and climate change impacts both locally and globally, development projects need further justification. The cost born by City tax payers to support services for new developments should be more transparent (e.g. Fire, Police, Water, Wastewater, Roads, Schools, Government, etc.). Like any well managed project the model should be completed before the project begins and extend through the life of the project.	Sustainable Development, Waste Reduction, Water Security, Renewable Energy, Conservation, Education	3	No action	Planning Board	4Q23	Sustainability Manager (45 Municipalities), Sustainability Committee (118 municipalities)	MDavis
2	139	Neighborhood greenway connectors	Require new subdivisions to connect to greenways. This would require adding a new provision to the zoning ordinances. (Reference Comprehensive Plan, Goal 3, Policies 2 and 4)	An oft-stated informal goal of the City's Comprehensive Plan Land Use subcommittee was that every resident would live within a 10-minute walk of a park or trail. This public good would be advanced by this proposal.	Sustainable Growth	2		Planning Board	4Q24		CAdler
2	138	Open Space Adoption	Increase use of open space. Leverage use of existing open space.	We have not had a great deal of success in our open space design guidelines for subdivisions and we need to revisit our original regulations to encourage this approach and protect our open space especially those areas that contain mature groves of trees. We do have success in encouraging developers to set aside open space but codifying the process will level the playing field and not penalize a developer who is willing to cooperate.						MA Open Space and Recreation Plan, Attleboro plan expired, not yet eligible.	BHatch
2	137	Office of Sustainability	Establishing an Office of Sustainable Development with interdepartmental representation and cooperation. Reorganizes across existing departments to integrate sustainable development into all city functions and decisions. The Office of Sustainable Development will report directly to the Mayor.	In order to successfully achieve the Vision of the EIMP, the Mission needs central coordination. Unlike most municipal departments, the Office of Sustainability has goals that affect all departments. Each department likely has short and long term sustainable goals. In addition the OOS would be responsible for securing grants, establishing and maintaining community partnerships, and assuring economic development progress. Progress on these goals needs to be tracked and more challenging goals should be adopted. Model: Philadelphia, PA	Sustainable Development, Waste Reduction, Water Security, Renewable Energy, Conservation, Education	3	No action	Mayor's office	4Q23	Philadelphia, Cambridge, Somerville, Worcester, Beverly, Frammingham, Melrose, Medford, Natick, Weylesley, Concord, Greenfield, Chelsea, Lowell, Acton, Newton (google search)	MDavis
2	135	Live-work units in downtown and TOD	Adopt an ordinance to allow live-work units in the downtown and the TOD. This would allow someone to live and work in the same unit, whether as an artist, artisan, shop owner, or professional, in designated locations in the downtown and the TOD District.	In other cities, entrepreneur use such spaces to start a new business. A tracking professional might use such a space to utilize a limited practice in a location easily accessible to the public. Proprietors might keep shops on the first floor and live on the second and third floors. Such an ordinance may serve as both a creative option for new construction and an effective way to fill empty storefronts and old factory buildings. (Reference Comprehensive Plan, Goal 9, Policy 11, and Goal 10, Policy 2)	Sustainable Growth	3		Planning Board	1Q25	Complete Street	CAdler
2	134	Adopt Building Energy Reporting and Disclosure Ordinance (BERDO 1.0)	Require commercial and residential buildings to report their yearly energy and water usage. Define parameters of "buildings" such as non-residential buildings 20,000 square feet or larger, residential buildings with 15 or more units, & any parcel with multiple buildings that sum to at least 20,000 square feet or 15 units for reporting. Data collected first year would set benchmarks for BERDO 2.0, where future emissions targets would gradually decrease to net-zero by 2050.	Although GHG emissions from buildings in Boston account for over 70% of total emissions, we do not have the data specifically for Attleboro, or surrounding communities at this time. Data collection is essential to better understand from commercial and residential buildings. Baseline data collected for the first year would help us understand where we are, and how much correction we need to trend towards net-zero. Highlighting individual energy usage and comparison should encourage improvements towards efficiency and develop investment in a green economy.	Sustainable Development, Renewable Energy, Conservation	3	Not Started: Senator Rebecca Rausch filed an energy-efficient building bill 2/19/2021 with multiple representatives (Senate, No. 2322) - as of 11/3/2022, the Bill was reported favorably by committee and referred to the committee on Senate Ways and Means	Owner would depend on if this passes as a bill - Department of Energy Resources or (line 197 of bill says municipalities may request to establish their own programs from the department).	1Q25	Boston, Newton, Cambridge (BEUDO) and Waterfront working towards their own mandates.	JWeber
2	133	Food Waste Reduction / Residential Composting Program	Investigate whether city can add a compost pickup (once per month?) for city residents (at least for dense downtown areas where backyard composting might be infeasible). Consider partnering with private composting companies).	Helps differentiate organic city's waste stream such that the city's waste can be converted to productive soil instead of landfill space or incinerator feed.	Waste Reduction			Solid Waste Dept. Private compost collection businesses		Approximately 100 communities, including Attleboro	AFowler
2	133	Website education	Leverage the municipal website to educate, promote, and encourage environmental action. See other website recommended actions and consider combining elements for broader coverage.	A website for Attleboro residents should be easily navigable, ADA-compliant, and have clearly listed action items. The website should provide clear pathways for individual and community successes to help guide residents who wish to explore personal pathways to energy efficiency and environmental action. The "go-to" resource for Attleboro residents with links to local, state, and federal programs or community can depend on.	Sustainable Growth, Waste Reduction, Water Security, Renewable Energy, Conservation, Education	2	Started: Create unique landing page from the City/Attleboro.us site	City of Attleboro/Civic Plus web designers / MIS / AHS CTE Marketing Students	2Q23	Cambridge, Boston, Worcester,	JWeber
2	131	Adopt Building Emissions Reduction and Disclosure Ordinance (BERDO 2.0)	Require commercial and residential buildings to reduce their energy and water use, with a goal to reduce emissions to net zero by 2050. With defined buildings required to report, and collected data from BERDO 1.0, require use data collected should trend downwards with pre-determined	Large buildings in Attleboro would have already established a first round of data reporting from BERDO 1.0. Data collected would help establish baselines for improvement in efficiency for subsequent years reporting. 5 year incremental GHG reduction benchmarks would give owners time to research and implement energy saving tactics for their buildings. Non-compliance penalties would be the most effective way to encourage good behavior is to recognize and reward that behavior.	Sustainable Development, Renewable Energy, Conservation	4	Not Started: Senator Rebecca Rausch filed an energy-efficient building bill in 2021 with multiple representatives (Senate, No. 2322) - as of January 13, 2022, the Bill was reported favorably by committee and referred to the	Owner would depend on if this passes as a bill - Department of Energy Resources (line 197 of bill	1Q27	Boston, Newton, Cambridge. Energy efficiency upgrade, energy efficiency audits	JWeber
2	130	Recognition	Initiate the Mayor's Environmental award, and other methods for recognizing Sustainable City participation as well as outstanding performance and achievement.		Education	2	No action	Mayor's office	2Q23	Sustainable Business Awards (https://www.sdmass.org/sustainable-business-awards-3/) EPA Awards (https://www.epa.gov/newsreleases/epa-recognizes-seven-massachusetts-organizations-and-citizens-regional-environmental-keep-mass-beautiful) (https://keepmassbeautiful.org/news-events/massachusetts-clean-air-quality-awards.html)	MDavis
2	129	Education (Primary and Secondary School) Integration - Municipal/Institutional/Community	Primarily focusing on middle and high schools. Schools implement a curriculum, especially in April. Curriculum tackles one or more EMP-centric topics, and includes activities/initiatives/competitions. Mayor yearly hands out an award to the class/individuals, with the winning project or accomplishment or inspiration or community service. Awards occur during Earth Week at an all-school event gathering.	Encourage participation by students and their families and friends. Creates prepetual and sustaining participation, and creates future "EMPera" (i.e. students) in the community. Gives students opportunities to put "lines" on their resumes for college applications.	Education			Attleboro area schools, APS, private, home-school community.		25th Annual Secretary's Awards for Excellence in Environmental Education (https://www.mass.gov/news/state-officials-recognize-32-programs-for-excellence-in-energy-and-environmental-education-0)	AFowler
2	128	Food Waste Reduction / School Composting	Integrate existing or new food waste/compost projects at APS with Attleboro's yard waste and composting program, and perhaps use private composting company(ies).	Helps differentiate organic city's waste stream such that the city's waste can be converted to productive soil instead of landfill space or incinerator feed.	Waste Reduction			Solid Waste Dept. APS		Hingham, Abington, Acton, Arlington, Attleboro (St. John's), Boston, Cambridge, Cohasset, Dartmouth, Groton, Haverhill, Lawrence, Medfield, Marblehead, North Andover, North Reading, Northampton, Plymouth, Quincy, Seekonk, Weston, Winchester & more (https://regteam.org/participating-schools/2021-2022-participating-school-list/)	EMigliaccio
2	126	Amend the Open Space Residential Development (OSRD) Zoning Ordinance	Planning Board strongly encourages new subdivision plans to reduce lot sizes and set aside open space, as provided for in the Open Space Residential Development (OSRD) ordinance (updated in 2012). Attleboro's OSRD ordinance is an alternative to conventional zoning. Under this ordinance, lot sizes are reduced and 50% of the land area is set aside for conservation. While OSRD is rarely used in Attleboro, there seems to be a market for this type of development in other communities. Red Mill Village, Norton, is an example of a subdivision designed according to this compact, walkable style of development, which is often referred to as "the new urbanism," while evoking the feel of a traditional New England village center. (Reference Comprehensive Plan, Goal 1, Policy 1, and Goal 12, Policy 1)	This smart growth proposal, conserving open space while at the same time reducing the per capita impact of residential development on the environment, has been widely acknowledged as a good idea, in the City's comprehensive plan and elsewhere, but has failed to gain traction in Attleboro.	Sustainable Growth; Water Security; Conservation	2	Draft amendment to OSRD ordinance submitted by C. Adler to Mayor Heroux on January 14, 2022. Amended ordinance would provide a density bonus as an incentive for developers to utilize OSRD.	Planning Board	1Q23	Norton	CAdler
2	126	Attleboro Business Net-Zero Emissions & Sustainability Pledge Review	Create Attleboro businesses engagement program reviewing Net-Zero Emissions and Sustainability Corporate Pledges	S&P 500 companies with sustainability baked into their strategy perform better than those that don't; they see an 18% higher ROI because they're managing and planning for climate change. According to Jeffrey Hollander, professor of sustainability at NYU Stern, "You will perform better financially by doing things like having a great sustainability program." Worldwide, 1,356 companies have pledged science-based targets and 1,032 have pledged net-zero commitments through the Science Based Target Initiative, launched in 2015. 428 US companies are working within the initiative currently. Some of these companies operate within Attleboro (The Home Depot, McDonalds, Advanced Auto Parts, CVS Health, Staples) to name a few. Discussing how their corporate pledges are pursued locally, and then publicizing improvements could boost business sales and strengthen our relationships moving forward. [bring in quote to discuss greenwashing here if necessary]	Sustainable Development, Conservation, Waste Reduction	4	Not Started	Economic Development	3Q24	Home Depot, McDonald's, Sleep Number, Wendy's, Starbucks, B.U.'s, Ashley Home Store, Kia, Quest Diagnostics, UPS, Dunkin', Marks, CVS, Dominos, Taco Bell, KFC, Pizza Hut, Advanced Auto Parts, Staples - No towns found having discussions with businesses on their pledges.	JWeber
2	126	Solar & Wind Locations	Proactively identify and market optimal sites for solar and wind farms. Utilize tools like EPA's "RE-Powering America's Land Initiative: Siting Renewable Energy on Potentially Contaminated Lands, Landfills and Mine Sites".	Climate change is real. And real solutions start with local action. Not all sites are ideal. Targeting optimal sites will maximize output, secure funding, minimize residential interference, save revenue time etc. Perhaps employ SERPED, contracted consultants, or other agencies. Incentive alternative energy and storage at the local level.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education	3	No action	Office of Sustainability	4Q23	Mount St. Mary's Abbey in Wrentham, Deer Island, Charlestown, Logan Airport, Medford McGlynn School, Lynn, Scituate WWT of the Driftway, Mashpee public park, Fairhaven Water Treatment Plant, Gloucester Blackburn Business Park, Hull, Beverly Highschool, Fairhaven Waste Water Treatment Plant, Medfield, Kingston Capped Landfill, Nantucket High School, Solarize Mass., Renewable energy solutions, municipal solar, municipal wind, renewable heating tech.	MDavis
2	125	Environmental Awareness Education	Promote awareness of EMP and City environmental issues (climate change, etc.) through City website, Mayor social media, public events (perhaps a City-observed "Earth Week"), community conversations, and other highly visible initiatives.	Marketing information and resources accessible and creating forums for learning and talking about the environment and environmental issues helps our community and the individuals living in our community develop skills to investigate their environment and make informed decisions about how to take care of it.	Education			Various, including Attleboro area schools, and hypothetical Office of Sustainability.		Greenfield, Easthampton, Milton, Mattapan, Worcester, Natick, Saugus, Brewster, Lincoln, Belmont	EMigliaccio
2	125	Mass Climate Action Network	Partner with Mass Climate Change Network (https://www.massclimateaction.org/)	MCAN acts as a facilitator for municipal level climate action in towns in Massachusetts by strengthening communication, and reducing development time for town-level projects that decrease climate change-causing pollution and improve communities. Currently working with over 50 groups in Massachusetts. MCAN can help Attleboro strengthen our regional partnerships and work with other towns to help achieve our EMP vision and mission.	Education and Participation	1	Not started	EMP Task Force and Advisors	1Q23	South Shore, Taunton, Middleborough, Lowell. Climate action Plan	JWeber
2	125	Tree Ordinance	Write the tree ordinance requiring replacement, when necessary, with native species. Require developers to remove as few trees as feasible.	Trees not only absorb Carbon, they add beauty and reduce heat concentrations in summer.	Conservation, Waste Reduction	2		Tree Warden		Newton	BHatch
2	123	Stretch Code: integrity structure	Create a Stretch code new building ordinance that assures that a structure integrity is sufficient for solar panel installation. https://www.mass.gov/info-details/building-energy-code	The financial returns for a home solar installation are substantial. New construction should updating building codes that assure a safe solar installation, even if not installed at the outset. Reconstruction after the fact would be far more expensive.	Sustainable Development, Renewable Energy, Conservation, Education	2	Not started	Building inspector			JHawkins
2	122	Carbon Neutrality	The Massachusetts Executive Office of Energy and Environmental Affairs is developing the "2050 Decarbonization Roadmap" to have MA achieve net-zero GHG emissions by 2050. The Clean Energy and Climate Plan for 2025 and 2030 (2025/2030 CECP) sets emission limits. Attleboro can look to the planning and implementation of programs to help MA achieve these goals and be a leader on adopting such programs in our region.	Massachusetts Law signed on 02/08/2021: An Act Creating a Next-Generation Roadmap for Massachusetts Climate Policy" requires the EEA Secretary (Energy and Environmental Affairs) to set interim emissions limits and sector-specific sublimits every 8 years. 2030 emissions limit shall be at least 50% below 1990 baseline, and 2040 emissions 75% below -2050 emissions 100% below. When Attleboro is able to quantify where 100% of our GHG emissions are emitted from, we will also be able to set specific limits and mirror the EEA standards.	Sustainable Development, Renewable Energy, Conservation	4	Not started	Economic Development	1Q24	Beverly, Boston, Cambridge, Lexington, Melrose, New Bedford, Northampton and Somerville. campaign/#~:text=Massachusetts%20communities%20that%20have%20committed,signed%20on%20th%20to%20campaign%20and%20	JWeber
2	122	Municipal Waste Programs	Assess municipal waste streams and burdens and other waste problems, including litter, and identify ways to manage or address them, e.g., widely promoting existing cleanup events (via City's social media platforms), City website, etc.), partnering with organizations (like Terracycle) that can assist with implementing programs to reduce difficult-to-recycle waste streams (like cigarette butts), identifying State programs or other sources of funding to address solid waste issues.	Promotes City greening by bringing state and private resources to aid the City and its committed "litter buster" teams.	Waste Reduction			Solid Waste Dept		Single use plastic ban (approximately 123 communities)	EMigliaccio

2	119	Finalize, and then Begin Implementing the City's Draft Final Hazard Mitigation Plan and Municipal Vulnerability	and tools that can be used to reduce dangers to life and property from natural hazard events. Future EMP work can use/leverage the Plan in order to target specific projects or initiatives to help achieve same. Plan found here: https://www.cityofattleboro.us/166/Hazard-Mitigation-Plan	Disaster readiness planning can help achieve the EMP's goals of community resilience and sustainable growth. Being "Sustainable by Design" also means having a plan/design for address setbacks from natural or community hazards.	Sustainable Growth, Education	1	A "Draft Final HMP and MVP Report" has already been finalized and uploaded to the City website.	Mayor's Office; Planning Office				AFowler	
2	118	Heritage Trail	Re-establish and expand a heritage trail. Downtown loop would pass by historic downtown locations. River loop would extend to Blackinton Pond and Highland Park. Both loops would begin and end at Robbins Riverside Park. (Reference Comprehensive Plan, Goal 10, Policies 1 and 5, and Goal 14, Policy 2)	This trail has already been established twice, then forgotten. Permanent interpretive kiosks and signage would educate the public about the historical importance of the river, and the trade-offs between environmental stewardship and economic development.	Sustainable Growth; Education	3	On November 4, 2021, C. Adler presented a conceptual plan for such a trail to the Attleboro Historical Commission	Conservation Commission	3Q23			CAlder	
2	116	Create Volunteer "Bulletin Board"	City provides a forum for groups to post/promote their upcoming volunteer activities. And/or City promotes/advertises upcoming volunteer activities. Mayor and others share same through social media outlets.	Encourage participation by students and their families and friends. "If you build it they will come!"	Education/Participation			Mayor's Office / Communications Office				AFowler	
2	115	Attleboro Business Waste Generation	Attleboro businesses to track waste generation and pledge to reduce	10,418 tons of trash and 5,940 tons of recycling in Attleboro were collected in 2020 through the municipal program, including materials collected from residents, municipal buildings, schools, and businesses. But not all businesses participate in this program, so the total amount of waste generated yearly in Attleboro is unknown. Businesses who track their generated waste through online platforms that use standard sets of metrics make it easier to share that information with community stakeholders. Knowing how much waste is generated and pledging to decrease waste by a certain percentage each year will help improve corporate image, reduce greenhouse gas emissions, cut disposal costs and increase profitability all while attracting quality tenants and positively engaging employees. The average annual cost savings depends on how much waste your business generates, but it's not uncommon to see savings anywhere between \$3,000-\$4000 per year just by simply recycling cardboard and paper.	Sustainable Development; Conservation, Waste Reduction	4	Not started	Economic Development	4Q23	Waste Wise City of Easthampton, Lowell, Newburyport, Dean College, Dunkin, Sturdy Memorial, Stop & Shop, Hamilton, Seekonk https://recyclingworksmas.com/wastewise/#members		JWeber	
2	115	Detention Ponds, catch basins: Maintenance, Post approval	Assign the contract engineering firm evaluate best practices for development ponds (forebay, detention, retention, etc.) that removes City responsibility in developments. DPW currently lacks the resources to routinely clean out catch basins, so we need a schedule and budget to get this done.	The City should not bear the expense or responsibility for development site ponds; Workload is already beyond what the City can manage; The ponds are an eye-sore; The ponds are a safety concern and liability. Resident complaints are frequent and compounding. Water security depends on keeping the pollutants that catch basins trap from overflowing into local wetlands and streams. [H]incavage: movement at the state to set a different "design storm" standard – the city can keep up with this change as it occurs in local bylaws so that new construction has to be able to absorb more stormwater to be compliant.]	Sustainable Development	3	Not started	Budget Office	1Q25	SRPEDD		BHatch	
2	115	Food Waste Reduction / Municipal Composting	Same for other municipal sources of food waste.	Helps differentiate organic city's waste stream such that the city's waste can be converted to productive soil instead of landfill space or incinerator feed.	Waste Reduction			Solid Waste Dept			Acton, Attleboro, Cambridge, Boston, Medford, Ipswich, Brookline, Middlefield, Saugus, Lynn, Belmont, Arlington, Auburn, Newburyport, Gardner, Northampton, Marblehead, Chelsea, Tewksbury, Newton, Northbridge, Amherst and many more. (https://masswasteforclimate.org/database/)		EMigliaccio
2	114	Higher Education Integration - Municipal/Institutional/Community	Help implement a program, club, or avenue for community service re: EMP-centric activities or initiatives or competitions. Also, City seek research help/partnership with such professors and students. Primarily focus on local colleges.	Encourage participation by students and their families and friends. Creates perpetual and sustaining participation, and creates future "EMPer's" (i.e. students) in the community. Gives students opportunities to put "lines" on their resumes for grad/job applications.	Education			Attleboro area schools and colleges.				AFowler	
2	114	Open Space Advisory Committee	Establish Open Space Advisory Committee (OSAC) by ordinance. (1) Protecting more land: -The committee would identify and monitor potential opportunities for the City to acquire more open space, such as land being taken out of Chapter 616/6A/6B and land in tax title proceedings. -Where developers have agreed to set aside open space, the committee would monitor compliance with these agreements. (2) Promoting passive recreational use of City land: -The committee would help to maintain conservation land owned by the City, including the development of trails. Additional duties could include making recommendations for use of public lakes, rivers, and streams for recreational purposes such as canoeing. (References -Comprehensive Plan, Goal 12, Policy 6 -2009 Open Space and Recreation Plan, Goal 8.1.1, Objective a.)	This specific action item has appeared in the City's Comprehensive Plan and its Open Space and Recreation Plan.	Sustainable Growth; Conservation	2	Draft ordinance language submitted by C. Adler to Mayor Heroux, and forwarded to city solicitor Cynthia Amara on March 7, 2022.	Mayor; Municipal Council	4Q22			CAlder	
2	114	Renewable contracts	City Gov't set a goal of purchasing 10% of its annual electrical energy from renewable sources by 2025 and 20% by 2028 (Power Purchase Agreements).	Power Purchase Agreements are becoming a popular method for municipal governments to reach sustainability goals and lower overall energy costs. According to the Center for Climate and Energy Solutions "As cities make commitments to acquire cleaner sources of electricity, the PPA can serve as a useful tool to bring financial, economic, and environmental benefits to their communities."	Sustainable Development; Waste Reduction; Renewable Energy; Conservation, Education	2	No action	Budget Office	2Q24			MDavis	
2	112	Community Preservation Act	Adopt the Community Preservation Act	The Community Preservation Act, establishes a property tax adder to fund a number of community actions including space acquisitions, protect watersheds, affordable housing, and historical areas. The state adds to the funding through income from property recordings etc. This will take some heavy lifting with the mayor and council with the new high school override already creating pain. The act also exempts low income and seniors from paying the tax.	Sustainable Development; Waste Reduction; Water Security; Renewable Energy; Conservation, Education	2	Not started	Conservation Commission	4Q26	CPA cities		MDavis	
2	112	Purchase Locust Valley	Before 2025, review the city's TWO legal options for preserving Locust Valley. [Option 1] City has right of first refusal to purchase at market value under Chapter 61B. [Option 2] City also holds a deed restriction on the 121-acre 9-hole golf course. (See Book 6565, Page 217, and Book 6702, Page 9.) This 30-year restriction expires in 2025, but the City may have the right to renew it for successive 20-year periods. Lot 175-1A (16.8 acres) is under a similar restriction. The city lawyer should check on this, as it could limit the land's market value. It should be noted that there is no deed restriction on 65 acres of land owned by the golf course owners on South Main Street and 8 acres on Locust Street.	It would be a disservice to the public interest for the City to fail to understand and take full advantage of the legal rights it holds and the ability it has to control the future of the 121-acre former golf course.	Conservation; Water Security	3	Currently studied by Mayor, Mass Audubon and Land Trust. Option 2 Documentation received by Mayor Heroux from C. Adler on June 29, 2021, and forwarded to Assessor Hobson. Status of Option 1 is unclear.	Mayor	4Q25			CAlder	
2	112	Streamline Applications	Reduce time, money in permitting acceptable projects. For example, an application to put up fencing requires ConComm and the Planning Board to approve through two different applications and permit fees.	Making it difficult to do acceptable projects only encourages residents to circumvent or avoid the system. Reduce hesitancy by streamlining the process.								AFowler	
2	110	Environmental Justice Planning	All recommended actions from the EMP should affirmatively work to reduce the disproportionate environmental burdens (e.g., heat, pollution, access) encountered by Environmental Justice communities.	Are all voices being heard during the initial phase of evaluating our EMP recommended actions? How can we work to improve the diversity and perspectives that are represented, such as notices for meetings distributed in all major languages spoken in our area? Will interpreters be available for meetings? How can we build new relationships with others in our community? Who has benefited from similar policies in the past? For example, many clean energy actions are only accessible to high-income households. How can we update policy to ensure that it's accessible to low- and middle-income residents? What funding resources could we utilize to increase accessibility? Are there grants that can help improve equity?	All	1	Unknown	All groups	Begin Now	Boston, Lynn, Lawrence, Weymouth, Fairhaven, Chelsea, Pittsfield, Milton, Somerville, Revere, New Bedford, Ashland, Bourne, Dennis, Salem, Holyoke, Chicopee, Springfield, Falmouth, Gill, Haverhill, Medway		JWeber	
2	109	Environmental Justice Initiative: assess equity stats	Assess equity impacts as part of the annual budget cycle, and report how expenditures, levels of service, and other infrastructure conditions vary by neighborhood, ethnicity, and other demographic categories.	Environmental hazards often disproportionately impact low-income communities and communities of color. Studying and tracking EMP efforts through the equity lens will help shape policies that can empower communities, particularly low-income households, to access clean technologies and infrastructure.	All			Planning Dept.			Boston, Lynn, Lawrence, Weymouth, Fairhaven, Chelsea, Pittsfield, Milton, Somerville, Revere, New Bedford, Ashland, Bourne, Dennis, Salem, Holyoke, Chicopee, Springfield, Falmouth, Gill, Haverhill, Medway (https://masswasteforclimate.org/database/)		EMigliaccio
2	104	Pedestrian bridge	Construct a pedestrian bridge linking the TOD to the County St neighborhood. Construct pedestrian bridge, including bicycle lane, over Ten Mile River at East Fourth Street. This would provide residents in the County Street neighborhood with a direct walkable route to the train station and Robbins Riverfront Park. Such a route would also benefit whatever use is put to the Old High School site. (Reference Comprehensive Plan, Goal 10, Policies 1 and 4.)	This would remove an obstacle to pedestrian circulation in a high-density location. It was part of the TOD conceptual plan created by the Goody Clancy design team.	Sustainable Growth	3	On November 13, 2020, Mayor Heroux told C. Adler that the city does plan to construct this bridge.	Mayor; Attleboro Redevelopment Authority	3Q25			CAlder	
2	103	Upgrade standards for sidewalks and trees in downtown and TOD	In the downtown and the TOD District, revise ordinances to provide for wider sidewalks and healthy, shade-providing trees. Recommended changes: -Increase minimum sidewalk width from 5 feet to 10 feet. -Plant no tree closer than 10 feet from a building wall. -Increase minimum sidewalk opening for a tree to 5 feet by 5 feet. -Choose tree species with spreading profiles. (Reference Comprehensive Plan, Goal 10, Policies 1, 4, and 5)	The lack of meaningful standards in the City's zoning ordinances for pedestrian walkways and associated landscaping is a serious omission which should be corrected before any more of the land in the TOD District is put out to bid.	Sustainable Growth	2		Planning Board	3Q24			CAlder	
2	99	Geothermal heat and electric pumps	Linked geothermal heat pumps for new developments or gas line replacements.	Eliminate fossil fuel with an innovative technology that used subterranean temperature to heat and cool buildings. National Grid and Enversource are partnering on a \$100 home and business installation in Frammingham. Once installed fossil fuel heat and cooling costs are eliminated. Utility companies are currently on track to spend/waste \$20 billion on 500 miles of new and gas line replacement. By law, signed in by Governor Baker, the Commonwealth of Massachusetts must reduce emission by 50% from 1990 values by 2030 and by 85% by 2050. Google see Sources for more information.	Sustainable Development; Waste Reduction; Renewable Energy; Conservation, Education	5	Not started	Planning Board	3Q23	Attleboro Housing Authority (Sun Chronicle). Hudson-geothermal heat pump rebates		BHatch	
2	99	Underground utilities	Buried electrical becomes the standard requirement in any new street or development.	Eliminate power disruptions from storms. Eliminate pole and wire maintenance, Aesthetics; Reduce carbon footprint (once & done). See case notes. Nat Grid says Attleboro is the last city/town in the region to adopt this action. This serves both Sustainable and Resiliency targets.	Renewables, Waste Reduction, Sustainable Development	1	Partial: Being reviewed by the Planning Board	Planning Board	4Q22	Springfield, Pittsfield, Bedford, Concord, Duxbury, Nantucket, Randolph, Wellesley, and Westwood, Chelmsford, Hingham, and North Andover		MDavis	
2	96	Improving City's ability to identify MA incentives/programs, and ability to plan for improved resilience and adaptation.	Action speaks for itself, and perhaps accomplished by creating a City position - perhaps in a new Office of Sustainability - whose job is to monitor environment-specific grant/fund opportunities from private and public sources, and to develop short- and long-range plans. Maybe scale this to a regional effort of the greater Attleboro area.	Seeking funding as a way to avail Attleboro of public and private improvement programs, and as a way to reduce the tax burden on residents. This should build off the good work already being done by the Planning Department.	All			Hypothetical Office of Sustainability; otherwise, Planning Department.			PACE, properly assessed clean energy. Worcester, Beverly, Frammingham, Melrose, Medford, Natick, Wellesley, Concord, Greenfield, Chelsea, Lowell, Acton, Newton		AFowler

2	90	Encourage the use of Reclaimed Water	Provide in zoning code incentives for new development/redevelopment to employ "grey" and/or "reclaimed" water system (as allowed by 214 Code of Mass. Regs. 20).	Saves fresh water for what's necessary.	Water Security			Planning Board, DEP			A Fowler
2	90	Walkability plan for TOD	Because "walkability" is an essential feature of a TOD District, the ARA and the Planning Board should work together to develop an overall plan for the entire District before any more land is sold to developers. The plan should include streets, bike paths, pedestrian walkways, and a focal point where pedestrian routes intersect. A public square should be a focal point for residents of the TOD District, for rail commuters, and for pedestrians on their way to any retail establishments in the District. The public square should include a sidewalk cafe, landscaping, and public art or a fountain. Some features of this overall plan might best be translated into ordinance provisions. Other desired features might best be expressed as bid requirements, since the City owns the land. The starting point for discussion should be the conceptual plan done by Goody Clancy for the ARA in 2006. (Reference Comprehensive Plan, Goal 10, Policies 1 and 5)	The importance of such a public space cannot be overstated, not just as a pedestrian thoroughfare, but as an expression of civic identity and pride, with social and cultural importance.	Sustainable Growth	2		Planning Board; ARA	2Q23	Complete Street	CAdler
2	84	Hike Attleboro	Develop the plan to connect existing and future hiking trails throughout Attleboro. Create an interactive map showing existing and proposed trail paths.	Hiking is a personal connection with nature. Most of the hikes in Attleboro are short 1 mile "walks", barely enough to commune. Connecting many smaller walks allows for a better appreciation for woodlands, Attleboro's history, and personal health.	Conservation, Education	2	Started	Attleboro Land Trust	3Q22	Westborough charm bracelet	BHatch
2	81	PACE (Property Assessed Clean Energy) Massachusetts	Property Assessed Clean Energy (PACE) Massachusetts is an innovative program to help commercial and industrial property owners in Massachusetts finance energy improvements.	Property Assessed Clean Energy (PACE) Massachusetts is an innovative program to help commercial and industrial property owners in Massachusetts finance energy improvements. The program lets you agree to a betterment assessment and lien on your property, sufficient to repay the financing extended by a private capital provider. If the property is sold before the financing has been repaid, the assessment stays and is transferred to subsequent property owners. PACE enables owners to use energy savings to undertake more comprehensive energy upgrades with financing terms of up to 20 years. Attleboro business owners looking for energy improvements to a building and exploring ways to pay for them could use PACE Massachusetts as a resource.	Renewable Energy, Conservation, Waste Reduction	1	Unknown	Business Owners	1Q23	Acton, Agawam, Amesbury, Amherst, Barnstable, Bellingham, Beverly, Boston, Brockton, Chelsea, Chicopee, Clinton, Concord, Easton, Fall River, Franklin, Gardner, Hudson, Lowell, Middleborough, Milton, New Bedford, Norwood, Orange, Peabody, Pittsfield, Plymouth, Randolph, Rockland, Salem, Somerville, Taunton, Wakefield, Weymouth, Westborough, West Springfield, Yarmouth (https://www.massdevelopment.com/what-we-offer/key-initiatives/pace/)	JWeber
2	74	Green courtyards in downtown and TOD	In the downtown and the TOD District, residential units should be grouped around green courtyards, rather than around parking areas. Green courtyards would include landscaping and pedestrian walkways. Where the ARA is selling the land to a developer, such as in the TOD, this requirement could be included in bid specifications, without the need for an ordinance change. (Reference Comprehensive Plan, Goal 10, Policies 1 and 5)	Urban residential housing does not have to be sterile and monolithic. Landscaping standards should be built in to urban development planning, not left to the discretion of the developer.	Sustainable Growth	2		Attleboro Redevelopment Authority, Planning Board	1Q23	Complete Street	CAdler
2	74	Light pollution	Adopt a fully-shielded lighting ordinance to reduce light pollution of the nighttime sky. Require fully-shielded lighting fixtures for all newly-installed and renovated outdoor lighting on commercial, industrial, and municipal properties. (Reference Comprehensive Plan, Goal 13, Policy 5)	There is no need to aim lighting into the nighttime sky, nor into neighboring properties where it is not wanted. Doing so amounts to wasted energy.	Sustainable Growth; Conservation	2		Planning Board	2Q23		CAdler
2	72	Increase local food system resilience.	Prepare for and plan for food crisis or disruption	What is food system resilience? Resilience is the ability to prepare for, withstand, and recover from a crisis or disruption. A resilient food system is able to withstand and recover from disruptions in a way that ensures a sufficient supply of acceptable and accessible food for all. Research is needed on how Attleboro can prepare for food shortages	Waste Reduction, Conservation, Education and Participation	2	Attleboro area received grant in 2020 to address food insecurity. MA State awarded \$22.5 million in funding to food producers across MA to address food insecurity (4/18/22)	Planning Board	2Q23	Worcester Regional Food Hub	JWeber
2	70	Bicycle accommodation in TOD District	In Transit-Oriented Development (TOD) District, require facilities for residents to use, park, and store bicycles. In TOD District, require facilities for residents to use, park, and store bicycles. --Residences must provide convenient indoor storage facilities for bicycles, as well as bike racks for temporary use by residents and visitors. --Bike racks must also be located near all businesses and public buildings. --Bike paths must connect all buildings in TOD zone. Since the ARA owns the TOD District, this could be included in bid specifications for developers, without the need for an ordinance change. (Reference 2012 Comprehensive Plan, Goal 3, Policy 2)	Residents of the TOD, by definition, should be provided with facilities that reduce dependence on automobile transportation. Just moderate increase in bicycle use in the US is estimated to reduce CO2 by 6-14 million tons per year. In addition to CO2, other harmful chemicals are also reduced. Fuel reductions of 0.7-1.4 billion gallons per year adds to US energy security.	Sustainable Growth; Conservation	2		Attleboro Redevelopment Authority	2Q23	Complete Street	CAdler

Recommended Actions For Evaluation-Personal					
August 3, 2022					
Priority	Author	Action	Proposal	Rationale	Pillar
	AFowler	Bike	Use two wheels instead of four!	The City is becoming more bike friendly, and can become even more so if more bikers are prevalent.	Sustainable Development
	AFowler	Conserve water	When possible, reduce your gallons per day in your home and personal water use.	Better for our watershed, better your wallet. Follow City water department directives on lawn irrigation windows; and do not irrigate around rainy days. Especially in times of drought, it is important to ensure that water is available for critical needs.	
	AFowler	Join a "litter buster" team	Join a local chapter of various litter-cleanup groups.	Groups like Litter Busters or Keep Massachusetts Beautiful (Attleboro chapter) or Friends of the Ten Mile River organize yearly or twice-yearly clean-ups around town. The more the merrier!	Conservation, Education
	AFowler	Laundry	Use cold or warm water instead of hot.	Conserve energy and save money without compromising on cleanliness. Many detergents are effective in cold water.	Waste Reduction
	AFowler	Pesticides	Reduce or eliminate your pesticide use.	This reduces accidental ingestion from pets, wildlife, and children, and allows a natural predator-prey cycle. Ask your landscaping company to refrain from chemical applications.	Sustainable Development, Conservation
	AFowler	Refillable water bottles	Make sure a reusable water bottle is part of your daily routine.	Save money and landfill space when you change from bottled to tap water. The tap water supplied by municipalities is rigorously tested for impurities. Bottled water is not subject to the same testing requirements, and so not necessarily safer.	Waste Reduction
	AFowler	Reusable bags	Keep your favorite reusable bag in the car, and use it with pride!	Save the waste and hassle of disposing of loose, single-use bags. If you must use single-use plastic bags, bring them back to the grocery store for recycling.	Waste Reduction
	AFowler	Solar panels	Consider adding solar panels to your roof or yard.	Well-sited solar installations can lower your home energy bills, and send surplus energy to the grid. Renters, be sure to encourage your landlord to explore this option.	Sustainable Development, Renewable Energy
	JHawkins	Green Loans	Utilize low interest Green Loans to fund qualified green projects around the home	Green loans are becoming a larger part of bank portfolio's. Where green project funding capital might be difficult, consider taking a low cost equity loan. Green project typically have a far shorter payback period than most other home projects. Further, when a home is ready to go on the market, new buyers will favor a purchase where the home (or business) that has a track record of lower expenses.	Sustainable Development, Waste Reduction, Renewable Energy, Conservation, Education
	JWeber	Energy Star LED lighting	Change all lighting fixtures in your home from incandescent light bulbs to Energy Star certified CFL or LED bulbs	Households use around 15% of their electricity on lighting. When we replace old incandescent bulbs to new CFL or LED bulbs, households can save an average of \$225 a year. "An ENERGY STAR certified light bulb uses about 70 to 90 percent less energy and lasts 10-25 times longer". (https://www.energystar.gov/campaign/waysToSave). Free LED lightbulbs are available from MassSave when replacing incandescent during your scheduled energy audit https://www.masssave.com/saving/energy-assessments/homeowners)	Conservation, Education, Waste Reduction
	JWeber	Grow food	Build a small garden in your yard, purchase a large planter to put on a porch, or create potted garden to grow your own vegetables.	The EPA states 25 percent of carbon emissions comes from industrial production of food and locally grown vegetables reduce carbon emissions from burning fossil fuels. No plastic packaging is required when you harvest vegetables straight from the garden, which also reduces fossil fuel inputs. Pesticide and other chemical inputs can be much less in a small, well-tended garden than even a small farm. Growing your own food reduces carbon emissions, provides better nutrition and tastier food for your family, fosters a connection with nature, and provides educational opportunities. If you grow an abundance of food, you can donate to neighbors or a local food pantry. Beyond the food itself, working a garden provides exercise and fresh air. https://www.thegardencontinuum.com/blog/the-6-environmental-and-health-benefits-of-growing-your-own-food	Conservation, Education; Waste Reduction
	JWeber	Plant a tree	Plant a tree in your yard, or donate funds to help organizations with reforestation.	Planting trees provides tremendous benefits as they clean the air we breathe, provide natural cooling and shade, give shelter to wildlife, provide food, control erosion and help filter water. If you wish to plant in your yard, pick a spot, contact DigSafe to check for underground utilities, and purchase your tree from a local store. If you are unable to plant a tree in your own yard, consider volunteering to help plant trees in your town, or donate to reforestation efforts around the world (https://onetreepanted.org/) or (https://www.nature.org/en-us/get-involved/how-to-help/plant-a-billion/). Arbor Day is celebrated on the last Friday in April where you can plan a tree planting event, check for local tree planting organizations, use a seed library or exchange, watch for free tree promotions, or ask a neighbor for free tree saplings.	Conservation, Education, Water Security
	JWeber	Recycle	Resolve to Recycle More	Attleboro, MA is home to over 44,800 people, and recycling is part of our duty as residents. We participate in Single Stream Recycling where all recyclables go into a single container for collection and processing. It costs less to recycle more so you don't pay for bagging additional garbage. "Recycling helps Massachusetts residents reduce the equivalent of 2 million metric tons of carbon dioxide annually". Directions on recycling are mailed yearly and can be found at www.cityofattleboro.us/221/Recycling-Rubbish	Waste Reduction, Conservation, Education

	JWeber	Reduce your carbon footprint	Calculate and then work to reduce your carbon footprint over time	A carbon footprint is the total amount of greenhouse gases (including carbon dioxide and methane) that are generated by our actions. The average carbon footprint for a person in the US is 16 tons, one of the highest rates in the world. Globally, the average carbon footprint is closer to 4 tons. To have the best chance of avoiding a 2 degree C rise in global temperatures, scientists estimate that we need to decrease our footprint to under 2 tons by 2050. If you follow the Environmental Management Plans (EMP) Personal recommend actions, you would be well on your way to reducing your carbon footprint. To get started, calculate your carbon footprint here: https://www3.epa.gov/carbon-footprint-calculator/ .	Sustainable Development, Waste Reduction, Water Security, Conservation, Education
	JWeber	Track energy usage	Use an app to track your energy usage		Conservation, Education, Waste Reduction,
	MDavis	Combine errands and trips	Plan local vehicle trips so as to optimize the lowest mileage.	"Combining trips can save you time and money by avoiding unnecessary stopping and starting of your vehicle, which can be an issue in colder climates where it takes longer for your engine to reach its most fuel-efficient temperature. Shorter trips can use twice as much fuel as one long, multi-purpose trip that covers the same distance, when the engine is warm and at its most fuel-efficient temperature. Engine and transmission friction increases with cold engine oil and other drive-line fluids, making the engine less efficient. Trip planning can reduce the distance you travel and the amount of time you drive with a cold engine." (https://afdc.energy.gov/conserve)	Waste Reduction, Conservation, Education
	MDavis	Compost	Compost non-meat food waste, and use compost in gardens and potted plants.	Composting is the recycling of organic matter. 33% of food is thrown away, Only 4% of food waste is composted annually. 800 tons of compost is manufactured annually. The benefits of home composting include: Reducing the volume that ends up in a landfill; Reduces the use of fossil fuels to manufacture compost used in gardens and potted plants; Reduces the amount of methane via anaerobic decomposition in a landfill; Saves water since organics retain water. Attleboro offers composting barrels for only \$25. An option is to contract a composting company like Black Earth Compost (https://blackearthcompost.com/)	Waste Reduction, Water Security, Education
	MDavis	Digital holiday cards	Instead of mailing physical greeting or holiday cards, send digital cards for a significant reduction of CO2 and expenses.	Mailing greeting holiday cards generate significant CO2. 31 pounds of CO2 are generated for each 100 holiday cards mailed. A study conducted by the U.K.'s Exeter University found sending one card produces about 0.3086472 pounds of carbon dioxide. The U.S. mails around 1.3 billion holiday cards a year—the same amount of CO2 emissions as charging 22 billion smartphones or 22,000 homes' energy use for one year. Digital cards can be made far more personal than physical. Digital cards allows for expanded messaging and photos of family updates.	Waste Reduction; Education
	MDavis	Dryer filters	Clean dryer filters at each cycle.	The most environmentally friendly option is to dry clothes outside. If that is not a reasonable option, be sure to take a moment to clean the dryer filter at each cycle. Cleaning the lint trap has the following benefits: Save energy, improving dryer efficiency by 75%; Prolongs the life of the dryer; Dries the clothes more quickly; Reduce fire hazards.	Conservation, Education
	MDavis	Energy audit	Contact MassSave to conduct an energy audit and install energy saving fixes at significantly discounted cost.	Energy saving improvements in the home have a significant return on the investment. Working with MassSave (https://www.masssave.com/save/faq) and installed their recommended improvements can result in significant savings on energy bills. Some improvements are given from free (LED bulbs, digital thermostat, etc.). If you used MassSave once, invite them back for more improvement recommendations.	Sustainable Development, Waste Reduction, Water Security, Renewable Energy, Conservation, Education
	MDavis	Food choices	Reduce carbon footprint with food choices	Purdue University studied 57,000 homes and found that 71% could reduce their carbon footprint with only three food choices that have excessive processing and packaging: Skip unhealthy snacks; Buy in Bulk; Reduce ready-made foods. These three changes could reduce 25% of emissions from household food consumption (36 million tons).	Waste Reduction, Conservation, Education
	MDavis	Full wash loads	Wash laundry and dishes to the full capacity of your washer, dryer, and dishwasher.	Laundry washer and dishwashers use the same amount of energy and water to wash on sock/one dish or to wash full loads. Full loads can lead to significant savings. Contrary to belief, hand-washing dishes uses more electricity (to heat water) and water than to wash a full load in a dishwasher. Other tips are to: use fewer, unneeded washing cycles, warm (versus hot) water, eco-mode setting (if available), use the proper amount of detergent (reducing the rinse cycles), wash at night when rates may be lowest.	Waste Reduction, Conservation, Education
	MDavis	High SEER AC	If central air conditioning is desired, make sure to evaluate a high SEER (Seasonal Energy Efficiency Ratio) unit.	Today's appliances have high efficiency options for a little more investment. That investment typically has a very high return, and sometimes a cash rebate to cover the investment! Comparing a 3 ton, 8 SEER and a 16 SEER central air unit the energy savings can be \$660 annually of nearly \$14,000 over the twenty year life span of the unit. Compare your investment at : https://hvcdirect.com/seer-efficiency-savings-calculator.html	Waste Reduction, Conservation, Education
	MDavis	Hot water at 120°F	Set your hot water heater temperature to no greater 120°F	The hot water heater accounts for nearly 20% of an electrical bill. The optimal temperature to reduce electrical use, prevent scalding and prevent bacteria build up is 120 °F. Most water heaters are factory set at 140°F and need to be cooled with cold water to be comfortable, a preventable waste of electricity. Another option is a tankless water heating system that heat the water only as needed.	Waste Reduction, Conservation, Education
	MDavis	House temperatures	Reduce daytime winter heating temperatures to ≤68°F in winter, and summer cooling temperatures to ≥78°F. Make further adjustments at night and when away.	Use an energy-saving programmable digital thermostat (free through MassSave) to adjust home temperatures. Wwww.energy.gov estimates a 10% energy savings by adjusting winter/summer temperatures settings by 6-8°F. As electric bills continue to rise, this is a good measure to help your budget and the environment.	Waste Reduction, Conservation, Education

	MDavis	Hybrid heat pump water heater	Upgrade to a hybrid (or heat pump) water heater.	The next time you need a hot water heater, consider a hybrid unit. A MassSave rebate may cover the increased cost. The additional annual savings have financial and environmental return. A heat pump water heater uses the heat from area (e.g., basement) and a compressor to heat cold water. A reduced amount of electricity is used to augment heating (i.e. hybrid). Also, you can get rid of the expensive energy consuming dehumidifier in the process saving up to 60% of its energy costs (not including the dehumidifier).	Waste Reduction, Conservation, Education
	MDavis	Inflate tires	Maintain the proper tire pressure on your vehicle.	Winter and summer temperatures can dramatically affect tire pressures--lower in the winter, higher in the summer. This is not only a safety issue, but an environmental one as well. Under-inflated tires cost you money. The U.S. Department of Energy says that for every 1 psi missing from your car's set of 4 tires, you lose 0.1 percent of your gas mileage. (Every psi lost also means that tires wear 10 percent faster.) By properly inflating your tires, you can improve your gas mileage by 3.3 percent.	Waste Reduction, Conservation, Education
	MDavis	Insulation	Add more insulation to walls, ceiling, doors.	Insulation not only keeps your home warmer in the winter, but cooler in the summer. What was acceptable amount and location of insulation years is no longer considered adequate. Contact MassSave for a free audit on what improvements can be made at highly discounted prices. The EPA estimates that the average homeowner can save 15% on heating and cooling costs (11% of total energy costs) by adding insulation in attics, crawl spaces, and basement rim joists. For most folks, that's about \$200 in savings per year.	Waste Reduction, Conservation, Education
	MDavis	Lawn mower blades higher	Set your lawn mower height to 3.5-4"	Setting mower height higher reduces water loss through evaporation and transportation. Michigan State advises that a lawn cut less than 3" stresses the grass, requiring more water, fertilizer, pesticides, and herbicides. What good for the lawn is good for the environment.	Sustainable Development, Waste Reduction, Water Security, Conservation, Education
	MDavis	Library	Borrow rather than buy books from the library (physical & e-books)	Every time a book is reused, the paper, packaging, shipping, and energy is reduced by half, and so is the associated carbon footprint. The impact is even greater if an e-book or audio book is borrowed. And you save money!	Waste Reduction, Conservation, Education
	MDavis	Lights out	Shut lights off when leaving a room	Shutting off lights when leaving a room is a small, but forgettable act that can save a significant amount of energy. The stakes are higher in more modern homes where one light switch controls many lights.	Waste Reduction, Conservation, Education
	MDavis	Limit irrigation	Install a rain gauge sensor to control irrigation systems	Few actions are more visibly wasteful than a lawn irrigation system spraying treated water on a lawn while it is pouring. A rain sensor set at a low setting eliminates the wasted water. Other tips include: adjusting the watering time and zones depending on the time of year when rain and heat are a factor, and water early in the morning when evaporation and community use are less of a factor.	Waste Reduction, Conservation, Education
	MDavis	Low flow toilets	When renovating or updating the bathroom, replace older, high flow toilets with low flow toilets.	A low flow toilet use ~1.6 gallons of water per flush, which is less than half the volume of older high flow toilets. The EPA estimates savings of \$110 per toilet, per year. There are also rebates likely available as an incentive to go green. Conclusion: go low flow or you are flushing money and you're your environmental concern down the toilet!	Waste Reduction, Water Security, Conservation, Education
	MDavis	Rain barrels	Use rain barrels to collect roof runoff and water plants	Rather than use chlorine-treated drinking water to water garden and potted plants, use rain barrels to collect free water that runs off your roof. It's better for your plants and your wallet.	Waste Reduction, Conservation, Education
	MDavis	Spread the word	Help spread the word on environmental actions	One person makes a difference. Educating others to do the right thing doubles the impact. Ass more are educated, and they educate others, the difference made is enormous. Tell family members and friends, use social media, start an action group in school, church, or neighborhood, write a letter to the editor. Spread the word for a bigger impact.	Sustainable Development, Waste Reduction, Water Security, Conservation, Education
	MDavis	Straws	Do not use plastic straws	The US uses 500 million single-use plastic straws every day (180 billion/yr.). Fossil fuels are used to make and produce single-use plastic straws. While it has a short life span in a glass, it lasts 200 years in a landfill. Refuse a straw when given. It's not needed. Choice ranking: eliminate straws altogether, use stainless, or paper straws.	Waste Reduction, Conservation, Education
	MDavis	Vegan, Vegetarian	Go or add vegetarian diet, better yet, vegan	18% of all greenhouse gases come from animal agriculture. A plant-based diet is more environmentally sustainable and produces 250% less carbon footprint than an animal-based diet. A plant-based vegetarian diet can save an average of \$750 annually because animal protein is more expensive. There are other benefits as well: said diets are proven healthier (fewer calories, less fat, less sugar).	Waste Reduction, Water Security, Conservation, Education
	MDavis	Water flow reducers	Install water flow reducers in showerhead and sink faucets	Lower flow water restrictors are a low cost fix that can save up to 40% of water coming out of a showerhead or sink faucet, saving thousands of gallons annually. The reduction is barely noticeable but the water savings and heating bills are very noticeable. MassSave may offer the restrictors at no cost.	Waste Reduction, Water Security, Conservation, Education
	MDavis	Work from home	If your job description allows it, arrange to work from home.	The recent pandemic demonstrated that many jobs can be done remotely with commuting energy and time eliminated. Forbes reports that the average work saves \$4,000 per year in commuting costs and personal spending by working remotely, with workers far happier in their roles. This represents a big advantage to workers and the environment.	Waste Reduction, Conservation, Education