

Marblehead Net Zero Roadmap Appendix A – Action Summary Table

	STRATEGY NAME	LEAD	PARTNERS
Implementation	Hire a sustainability coordinator	Select Board, Town Administrator, MMLD	MAPC, NEEP
	Develop a community carbon dashboard	Sustainability staff	
	Provide annual progress updates to the Select Board	GMC, Town staff	
	Periodically update Marblehead's greenhouse gas inventory	Town staff	
Our Homes & Businesses	Create and preserve efficient affordable housing, implement strategies outlined in the Marblehead Housing Production Plan	HPP Implementation Committee	GMC, Town staff, MHA, MAPC
	Partner on clean energy outreach programs that facilitate building electrification and efficiency retrofits	Sustainability staff, GMC	MMLD, Sustainable Marblehead, clean energy vendors
	Incentivize energy efficiency and electrification	MMLD	Town staff, GMC, SM, MMWEC
	Advocate for and adopt the specialized stretch energy code	Select Board, Planning Board	Town staff, Planning Board, GMC, MAPC
	Require energy efficiency licensing for rental units	Select Board, Town staff (Building Inspection)	
	Update zoning laws to account for more housing types, retrofitting for multi-unit dwellings, in-law apartments	Town planner	HPP Implementation Committee, Planning Board
	Allow changes to historic buildings that reduce GHG emissions	Town planner	Historical Commission, GMC, Planning Board
	Provide financing options for Marblehead residents to adopt electric and renewable technologies and invest in energy efficiency	MMLD, Town	MassDevelopment, MMWEC
	Additional actions <ul style="list-style-type: none"> Lead by example on municipal building performance - e.g., retrofit existing municipal buildings and adopt a net zero standard for new municipally owned and funded buildings Create climate overlay zones to reduce GHG emissions from an array of building types Require all new construction and roof replacements to implement an eco-roof (green roof, solar PV, white roof, etc.) Offer reduced permitting fees for net zero emissions buildings and net zero enabling tech Train reviewers and staff on net zero building standards and design principles <ul style="list-style-type: none"> Work with contractors on electrification. Plan reviews with Building Department - informational program to get the word out about electrification options. Add information to Building Department website about building energy code. Use more sustainable, low-embodied-carbon materials for buildings and other projects (e.g., sidewalks, roads) Explore whether Affordable Housing Trust Money can be used to help LMI households retrofit their homes to be carbon free Require EV charger installation at all new and substantially renovated multi-unit residential buildings and office buildings with off-street parking spaces Zoning changes: <ul style="list-style-type: none"> Allow by-right the installation and operation of net zero enabling technologies Exempt net zero enabling technologies from height and setback requirements Include net zero enabling technology and related terms in zoning definitions Incentivize clean heating and cooling technology by including provisions for special permits 		

Getting Around Marblehead	Continue implementation of the Marblehead Complete Streets Prioritization Plan	Town planner	Complete Streets Committee, MassDOT, MAPC
	Develop and implement a bike and pedestrian plan	Town planner	Complete Streets Committee, MAPC
	Promote and incentivize electric vehicles for all Marblehead residents	MMLD	Sustainability staff, GMC, SM, MassCEC
	Explore and implement an EV car sharing program	Sustainability staff	Mobility tech companies, MAPC
	Adopt a zero-emission municipal fleet policy	Select Board	Town staff
	Procure electric school and shuttle buses	MPS	MAPC, US EPA
	Enable and incentivize transit-oriented development (TOD)	Town planner	Planning Board, HPP Implementation Committee, SM
	Advocate for community and regional transit needs	Town planner	MAPC, Boston Region MPO, MBTA, MassDOT
	Expand public EV charging stations	Sustainability, planning staff	MMLD, MAPC
	Advocate for and implement utility rate design changes	MMLD	
	Enforce existing idling law with particular focus on schools	Marblehead PD	SM, MPS
	Additional actions <ul style="list-style-type: none"> • Test feasibility of creating an e-bike share system • Adopt climate-smart parking policies • Create subsidy for town bus passes • Conduct parking study and explore parking charge, other disincentives for parking to increase walking and biking • Adopt EV charging site guidance • Create a database and tracking mechanisms to understand the number of EVs in town • Evaluate GHG emissions contribution of marine engines, diesel and gasoline, inboard and outboard, to emissions in Marblehead harbor and add to GHG inventory • Actively promote the adoption of electric boats • Electrify the waterfront and put charging stations on floats throughout the harbor, connected by underwater cable to electricity. Work with the Harbor and Waters Board and the Harbor Plan Group to implement this. 		
Where Our Energy Comes From	Promote & incentivize solar electric systems for Marblehead residents	Sustainability staff, MMLD	SM
	Establish a Community Solar program	MMLD	Sustainability staff, SM, solar developers
	Maximize the installation of utility-scale solar and battery storage	MMLD	MMWEC, NREL
	Transition MMLD electricity supply to 100% clean energy	MMLD	MMWEC
	Coordinate with utilities to address major gas leaks	Sustainability staff, DPW	SM, National Grid
	Implement public housing solar program	Marblehead Housing Authority	Town staff, MMLD
	Encourage battery storage	MMLD	SM
	Implement new rate structures that help reduce emissions	MMLD	
	Implement and advocate for demand management	Town staff (facilities), MMLD	MAPC, ISO-NE
	Explore a no-cost solar financing model	Town staff	Local financial institutions

	Analyze and upgrade distribution system infrastructure	MMLD	
	Additional actions <ul style="list-style-type: none"> Support pilots of centralized clean heating projects that transition neighborhoods or districts off fossil fuels Maximize renewable energy generation on municipal property Advocate for equitable clean energy access and policy within the community and statewide Align zoning and permitting to support public and private sector centralized clean energy systems Deploy energy storage at critical facilities Develop income-based rates that reduce energy burden for low-income residents 		
Our Natural Systems	Develop a tree planting and maintenance program	Tree Warden	Select Board
	Reuse water and develop water conservation tactics	Sustainability staff	SM
	Significantly increase participation in composting programs	Health Dept	SM, composting companies, other munis (reg. collab.), MA DEP
	Phase out single-use plastic	Select Board	SM
	Create community gardens	Health Dept	SM
	Additional actions <ul style="list-style-type: none"> Promote aquaculture practices that help sequester carbon and/or provide resilience benefits Encourage personal farming 		
Other actions	Advocate for funding options for incentive programs (federal and state grants)	Town staff	Select Board, MMLD, SM, MAPC
	Pass town-wide ban on gas- and diesel-powered landscaping equipment	Select Board, Town Meeting	SM, MMLD
	Provide residents with straightforward carbon emission measuring tool and informational resources about how to reduce emissions	Sustainability staff	SM
	Educate contractors and residents about clean energy and electrification	Sustainability staff	MMLD, SM, MassCEC, Mass Save
	Additional actions <ul style="list-style-type: none"> Encourage green jobs training through local technical schools Consider becoming a Green Community Revisit the GHG inventory and roadmap every five years and track progress to accomplishing goals Evaluate the GHG emissions contribution of commercial gas-powered lawn mowers, leaf blowers, and trimmers by quantifying how many are in use Ask the Select Board to assign responsibility for overseeing roadmap implementation and tracking progress to the Green Marblehead Committee 		