



Freeport Climate Action Plan - Appendix A

# IMPLEMENTATION TABLE

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April 2024

Town of Freeport Sustainability Advisory Board

## Implementation Table

The Freeport Climate Action Plan establishes the goals, strategies, and actions outlined in the following tables. The Freeport Town Council will execute these actions at their discretion and guide the work of Town staff and volunteer Boards to meet our goals. Implementing actions in this Plan will require staff resources, external funding, and will be balanced with ongoing projects and priorities of the Town over time. The following Table is meant to as a tool to guide implementation planning by Town Council, staff, and leadership.

**Local government action to address climate change is only one piece of the puzzle.** The municipality can take meaningful steps to adapt policies and provide information to support sustainable choices, but addressing the threat of climate change -and leveraging the opportunities it brings- is a collective effort.

 Community organizations, businesses, and individuals will need to support Town sustainability efforts and take action on issues not reflected in the scope of this Plan.

 Wider change at the State and Federal level and in the private sector is necessary to meet our goals.

## Building Momentum in Year One

There are steps we can take in the first 6-12 months to move the Plan forward while organizing the needed resources for full implementation. Steps for Town operations can be directed by Town Manager and steps for the community can be lead by FSAB, supported by Sustainability staff.

### Town Operations

- Identify high efficiency standards and renewable energy as a priority in upcoming facility upgrades
- Incorporate data from the Vulnerability Assessment into Emergency Management Plan update
- Set up tools and processes for the implementation of the Plan across Town departments and advisory groups
- Create and maintain a 'bank' of ready project ideas for grants
- Map short term actions to grant opportunities and explore staff capacity for grant administration and Plan implementation
- Ensure the Climate Action Plan aligns with -and is integrated into- the Comprehensive Plan update

### Community

- Execute a strategic plan for collaborative public education and awareness campaigns and events
- Update the municipal website with a sustainability page with information and resources.
- Develop action toolkits for residents and businesses
- Create content and a schedule for regular updates through Town communications channels to share information and resources for community members.
- Present Council with quick-win policies

# How to Read the Table

**Actions** are categorized in green or blue highlight.

Quick win: Short-term actions that have the potential to maintain implementation momentum

High impact: Actions that have the potential to get us the furthest toward the town's goals

Actions without highlighting may have lesser calculable impact or be on a longer timeframe.

Potential **benefits** of implementing the action are noted with colored bubbles, representing co-benefits including:

- Equity
- Affordability +
- Economic Vitality
- Community Resilience
- Emissions Reduction
- Healthy Environment

**Relative cost** for implementation is noted in a range from \$ - \$++. This range indicates the level of estimated municipal capital required to implement the action, inclusive of external funding that can be used to offset direct cost.

**Action ID number** consists of the strategy number and the number of the action.

The recommended **timeframe** for completing actions is categorized into:

- Short (2024-2025)
- Medium (2026-2029)
- Long (2030-2035)

Action timeframes are based on the urgency of completing the action balanced with realistic municipal capacity.

**Implementation considerations** are points to be taken into consideration during implementation. These points are based on best practices and ideas and priorities from the community.

	Benefits	Timeframe	Roles	Cost	Implementation Considerations
<b>Goal 3: Buildings in Freeport are designed, built, and maintained to be energy efficient and minimize greenhouse gas emissions</b>					
<b>Strategy 3.1: Pursue deep energy efficiency through retrofits and electrification in existing buildings</b>					
3.1.1	Continue and expand Electrify Everything! as a comprehensive community outreach, education, and incentive program to aggressively encourage energy efficiency and renewable energy.	● Short	FSAB (P)	\$	<ul style="list-style-type: none"> <li>• Include education on financing</li> <li>• Explore financial incentives to encourage community energy memberships for lower income households</li> <li>• Consider battery bulk purchasing program</li> <li>• Focus on multifamilies and supporting renters, those with less access to resources and information</li> <li>• Track State's Home Energy Score program for potential participation</li> </ul>

# CONNECTED MOBILITY & LAND USE

Benefits    Timeframe    Roles    Cost    Implementation Considerations

## Goal 1: Freeport is an EV-ready and friendly community

### Strategy 1.1: Accelerate EV adoption among Freeport residents, businesses, and municipal departments

1.1.1	Amend the Town's Zoning Ordinance to integrate EV charging and readiness requirements for new development and redevelopment.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span>	Short	Planning Staff (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Public chargers support renters and visitors</li> <li>Consider standards for different lot type/use</li> <li>Consider prioritizing higher % of readiness VS installed</li> <li>Bike parking/trees complementary policy</li> <li>Maine Clean Communities resources</li> <li>Complement policy with streamlined permitting and inspection</li> </ul>
1.1.2	Establish a comprehensive EV outreach and education campaign for residents and facilitate the expansion of public charging network with businesses.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span> <span style="color: green;">●</span>	Short	FSAB (P) Sustainability Staff (A)	\$	<ul style="list-style-type: none"> <li>Facilitate and support the expansion of regional EV charging network with businesses (promote funding opportunities)</li> <li>Signage/map for public chargers</li> <li>Complemented by streamlining permitting</li> </ul>
1.1.3	Pursue funding to install networked public EV charging stations at municipal facilities.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span>	Medium	Planning Staff (P) Municipal Facilities Committee (P)	\$	<ul style="list-style-type: none"> <li>Networked chargers can collect funds to pay for their maintenance</li> <li>Can show the Town leading by example</li> </ul>
1.1.4	Adopt a municipal vehicle procurement plan that phases out purchases of fossil-fuel based vehicles, starting with passenger vehicles and moving to medium- and heavy-duty vehicles as feasible across departments.	<span style="color: darkblue;">●</span>	Short	Town Manager (P)	\$\$	<ul style="list-style-type: none"> <li>Monitor funding for medium and heavy duty electric vehicle pilot programs</li> <li>Align with State/Federal EV goals</li> <li>First responder training for EV accidents</li> <li>Requires plan to strategically install chargers to accommodate an all-electric fleet</li> </ul>

## Goal 2: It is easy and safe for residents, workers, and visitors to get around without a car

### Strategy 2.1: Expand infrastructure to support accessible and safe walking, biking and public transportation use

2.1.1	Expand and prioritize complete street principles and non-motorized local and regional trails connecting residential, commercial, and school locations and dedicate funding to leverage State and Federal funding.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span>	Medium	Town Staff (P) Complete Streets Committee (A)	\$\$\$	<ul style="list-style-type: none"> <li>Prioritize existing Complete Street project ideas</li> <li>Make one pilot program downtown to demonstrate safe streets</li> <li>Safe Routes to School</li> <li>Prioritize traffic calming measures</li> </ul>
2.1.2	Explore opportunities to enhance public transit infrastructure, such as shelters, to increase transit use and create connections between existing transit stops and employment or economic centers.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span> <span style="color: green;">●</span>	Medium	Planning and Economic Development Staff (P) Complete Streets (A)	\$\$	<ul style="list-style-type: none"> <li>'Last mile' options to connect transit stops and neighborhoods/destinations enhance equity</li> <li>Incorporate diverse mobility needs</li> <li>Complementary to business TDM programs</li> </ul>
2.1.3	Collaborate with the business community to encourage active transportation and transit use for employees and customers, beginning by developing a Transportation Demand Management (TDM) Program.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span>	Medium	Economic Development Staff (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Use <u>Portland example</u> for policy</li> <li>Support businesses to facilitate public active transportation, such as bike rentals and trail connections to create a niche outdoor economic development opportunity</li> </ul>

### Strategy 2.2: Amend land use policies to reduce reliance on cars and support vibrant and resilient neighborhoods

2.2.1	Update zoning and develop dedicated funding to enable high-density development, attainable housing, and mixed use areas in line with Smart Growth principles and transit-oriented development (TOD).	<span style="color: green;">●</span> <span style="color: darkblue;">●</span> <span style="color: green;">●</span> <span style="color: gold;">●</span>	Medium	Planning Board (P)	-	<ul style="list-style-type: none"> <li>Adjust lot size minimums and support multifamily and infill residential development and workforce housing. Require sidewalks/multi-use paths in new development</li> <li>Focus on sustainable development that is affordable</li> <li>Pair with mechanism that preserves distributed open space</li> </ul>
2.2.2	Amend the Town's Zoning Ordinance to revisit minimum parking requirements, establish maximum parking standards, and integrate bicycle parking and trees in parking requirements.	<span style="color: green;">●</span> <span style="color: darkblue;">●</span> <span style="color: green;">●</span>	Medium	Planning Staff (P) Planning Board (A)	-	<ul style="list-style-type: none"> <li>As complementary policy with EV readiness requirement</li> </ul>
2.2.3	Amend and expand the current anti-idling policy paired with collaborative campaign for enforcing 'no idling zones' in priority locations.	<span style="color: blue;">●</span> <span style="color: gold;">●</span>	Short	Town Manager (P) Ordinance Committee (P)	-	<ul style="list-style-type: none"> <li>Supports clean air</li> <li>Enhancing public awareness is crucial to success</li> </ul>

# EFFICIENCY BUILDINGS & CLEAN ENERGY

		Benefits	Timeframe	Roles	Cost	Implementation Considerations
<b>Goal 3: Buildings in Freeport are designed, built, and maintained to be energy efficient and transition off of fossil fuels</b>						
<b>Strategy 3.1: Pursue deep energy efficiency through retrofits and electrification in existing buildings</b>						
3.1.1	Continue and expand Electrify Everything! as a comprehensive community outreach, education, and incentive program to aggressively encourage energy efficiency, renewable energy, and energy storage.		Short	FSAB (P)	\$	<ul style="list-style-type: none"> <li>Include education on financing</li> <li>Explore financial incentives to encourage community energy memberships for lower income households</li> <li>Consider battery bulk purchasing program</li> <li>Focus on multifamilies and supporting renters, those with less access to resources and information</li> <li>Track State's Home Energy Score program for potential participation/ point-of-sale/rent energy transparency</li> </ul>
3.1.2	Adopt Commercial <u>PACE</u> ordinances and develop supporting outreach to drive participation.		Short	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Model ordinance available from EMT</li> <li>Promote existing residential PACE program</li> <li>Ensure comprehensive info. available</li> </ul>
3.1.3	Pilot a benchmarking program with businesses, that could phase into an <u>Energy Benchmarking Ordinance</u> or voluntary initiative, and promote commercial energy audits and deep-energy retrofits.		Medium - Long	FSAB (P) Sustainability Staff (A)	-	<ul style="list-style-type: none"> <li>Collaborate with large energy-using commercial facilities and multi-family residences to determine feasible energy retrofitting solutions</li> <li>Review guidelines for Design Review and Freeport Village districts to identify potential conflicts with energy-efficiency</li> <li>Emphasize incentives, guidance, and resources available</li> <li>Explore transparency in data for consumers</li> </ul>
3.1.4	Prioritize retrofits for municipal facility upgrades and develop a plan to transition facilities to net zero over time.		Medium - Long	Municipal Facilities Committee (P)	-	<ul style="list-style-type: none"> <li>Efficiency Maine funding available</li> <li>Use the priorities identified in the existing energy assessment</li> </ul>
<b>Strategy 3.2: Require new development and significant renovations to minimize greenhouse gas emissions.</b>						
3.2.1	Develop phased-in requirements paired with incentives for on-site renewable energy generation and storage, EV-ready, renewably-powered heating, and high efficiency standards in new construction and major renovations.		Medium	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Phase in future stretch codes beginning with incentivizing opting-in</li> <li>Explore Sustainability Checklist/points system for flexible requirements</li> <li>Emphasize incentives, guidance, and resources</li> <li>Update TIF development priority to include investing in high performing buildings/ renewable energy</li> <li>Provide information and incentives to local contractors to encourage resilient building practices</li> </ul>
<b>Goal 4: Freeport is powered by local, resilient, renewable energy</b>						
<b>Strategy 4.1: Maximize renewable energy generated locally and explore opportunities to enhance grid resilience</b>						
4.1.1	Implement policies and practices necessary to achieve SolSmart certification, or equivalent, for the Town.		Medium	Planning Board (P)	-	<ul style="list-style-type: none"> <li>Utilize SolSmart resources and technical assistance to amend zoning to reduce barriers to solar</li> </ul>
4.1.2	Amend the existing Municipal Power Purchase Agreement for 100% clean energy for current demand and forecasted need with electrification of facilities and fleet.		Medium	Town Council (P)	-	<ul style="list-style-type: none"> <li>Partner with Revision to update on best practices</li> <li>Understand forecasted demand of electrifying fleet and facilities</li> <li>Site and construct new Town buildings to enable and include renewable energy</li> </ul>
4.1.3	Require all new large developments (commercial, residential, and municipal) to evaluate feasibility of district energy or microgrids powered by renewable energy.		Medium - Long	Planning Board (P)	-	<ul style="list-style-type: none"> <li>Create resources to support this, such as a qualified list of vendors</li> <li>Emphasize incentives, guidance, and resources available</li> <li>Determine building threshold for requirement</li> </ul>
4.1.4	Evaluate feasibility for large-scale community solar projects.		Short - Medium	FSAB (P)	\$	<ul style="list-style-type: none"> <li>Work with expert consultant to identify solar generation opportunities and 3-phase connections</li> </ul>
4.1.5	Develop and implement a Resilient Power Plan to ensure critical facilities have power during emergencies, such as winter storms.		Medium	Municipal Facility Committee (P)	\$\$	<ul style="list-style-type: none"> <li>Batteries at critical facilities</li> <li>Incorporate public-private partnerships for microgrids and distributed energy</li> <li>Integrate electrical infrastructure capacity in planned CIP projects</li> </ul>

# SMART WASTE MANAGEMENT & CIRCULAR ECONOMY

Benefits   Timeframe   Roles   Cost   Implementation Considerations

## Goal 5: Freeport residents and businesses prioritize using resources efficiently

### Strategy 5.1: Minimize waste and foster a resource sharing economy

5.1.1	Phase out single use materials in commercial spaces by expanding single use item bans and promoting reuse systems.		Medium	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Focus on packaging</li> <li>Identify solutions for reporting and enforcement.</li> <li>Emphasize incentives, guidance, and resources available for businesses to phase out single-use waste items faster</li> </ul>
5.1.2	Launch a recognition and outreach program to support businesses to reduce waste and substitute alternatives, especially for single use materials.	 	Short	FSAB (P) FEDC (A)	-	<ul style="list-style-type: none"> <li>Partner with downtown organizations to reach visitors</li> <li>Encourage circular innovation and reuse businesses in town</li> <li>Consider promoting models for food recovery such as <i>Too Good to Go</i></li> </ul>
5.1.3	Assess opportunities to reduce waste from town operations and facilities by tracking waste and developing a zero waste plan and sustainable purchasing policy.		Short - Medium	Sustainability Staff and Town Manager Office (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Valuable for leading by example, potentially lowering operating costs</li> </ul>
5.1.4	Develop an ordinance for all multi-family residences, commercial establishments, and schools that phases in mandatory recycling and composting.		Medium	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Emphasize incentives, guidance, and resources available</li> <li>Engage stakeholders to understand barriers</li> <li>Expand public compost drop off sites, seek partners to expand private curbside composting access</li> </ul>
5.1.5	Adopt a construction and demolition waste recycling and reuse ordinance.	 	Short - Medium	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Require C&amp;D reduction/recycling plans for permits over X sf</li> <li>Provide contractors with resources for reuse</li> <li>Explore coordination with historical preservation for adaptive reuse</li> <li>Emphasize incentives, guidance, and resources available</li> </ul>
5.1.6	Develop a Sustainability Lending Hub that serves as a space to foster opportunities for residents to reuse, repair, and create items and materials.	 	Short	FSAB (P)	\$	<ul style="list-style-type: none"> <li>Serve as hub for engagement and outreach</li> <li>Partner with Schools for education.</li> <li>Create a distinct brand for Freeport circular economy/recycling that has broad reaching signage</li> <li>Explore Transfer Station as site</li> </ul>
5.1.7	Launch a branded, accessible, and widespread outreach campaign on opportunities to reduce, reuse, and recycle.		Short	FSAB (P)	\$	<ul style="list-style-type: none"> <li>Positive behavior change for residents and visitors</li> <li>Explore Transfer Station for opportunities</li> <li>Partner with businesses</li> <li>Could evolve into branded network of recycling bins throughout downtown</li> </ul>

# HEALTHY NATURAL LANDS & WATERS

Benefits	Timeframe	Roles	Cost	Implementation Considerations
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## Goal 6: Freeport employs stewardship practices that ensure the ongoing health and vitality of our shores and waters

### Strategy 6.1: Prioritize green infrastructure

6.1.1	Launch a branded ongoing public education and outreach campaign on sustainable landscaping, green infrastructure, lowering light pollution, and resilient land management practices.	<span style="color: blue;">●</span> <span style="color: yellow;">●</span>	Short	FSAB (P) Sustainability Staff (A)	\$	<ul style="list-style-type: none"> <li>100 resilient yards as model</li> <li>Cultivate community partnerships</li> <li>Interactive trainings, bring in local groups</li> <li>Guidance for Tree/forest management, protection/restoration of erodible bluffs, steep slopes, and shorelines using nature-based-solutions (regrading, tree-planting, retreat) for both private and town-owned lands</li> <li>Use Yardscaping program through the Interlocal Stormwater Working Group</li> </ul>
6.1.2	Incorporate Low Impact Development (LID) best practices in Capital Improvement Plan (CIP) and Town operations as comprehensively as possible.	<span style="color: blue;">●</span>	Medium	Town Staff (P)	-	<ul style="list-style-type: none"> <li>Road management practices, trees and green islands</li> <li>Use Coastwise for tidal crossings</li> <li>Evaluate how much money the Town spends on dealing with stormwater now and how much it will be required to spend in the future</li> <li>Enhance staff capacity to prioritize and complete impounded stream crossing upgrades (pursue DOT funding)</li> </ul>
6.1.3	Review land use ordinances to integrate LID best practices.	<span style="color: blue;">●</span> <span style="color: green;">●</span>	Short	Planning Board (P)		<ul style="list-style-type: none"> <li>Expand impervious surface maximums to all districts and consider opportunities to maximize permeable materials</li> <li>Make municipal separate storm sewer system (MS4) standards apply town-wide</li> </ul>

## Goal 7: Forests, wetlands, and coastal habitats are protected

### Strategy 7.1: Permanently conserve land with a focus on biodiversity and connectivity

7.1.1	Update the Freeport Open Space and Public Access Plan (1999) to develop a comprehensive and forward-thinking roadmap to protect, enhance, and connect natural spaces for people and wildlife.	<span style="color: green;">●</span> <span style="color: blue;">●</span>	Medium	Conservation Commission (P) Community Partners (A)	-	<ul style="list-style-type: none"> <li>Make digital maps available in a GIS format.</li> <li>Collaborate with the Freeport Conservation Trust and other local organizations to inventory open space and identify gaps in habitat connectivity</li> <li>Strengthen Subdivision Ordinance to utilize Open Space plan to prioritize and enforce corridor connectivity</li> <li>Incorporate data for priority conservation/habitat into Town GIS layers and continue to update and track as part of regular Town mapping</li> </ul>
7.1.2	Develop and implement an appropriate tree protection ordinance applying to public and private land that maintains tree cover and values resilience benefits of trees.	<span style="color: yellow;">●</span> <span style="color: blue;">●</span>	Short - Medium	Ordinance Committee (P) Tree Task Force (A)	-	<ul style="list-style-type: none"> <li>Create an inventory, planting, and management plan for all Town trees</li> <li>Include a pest management plan to organize response to invasive species</li> <li>Create a municipal planting policy that prioritizes native species well-suited for anticipated climate changes, different soil types, and supports pollinators</li> <li>Conduct an audit of municipal landscaping practices and create a plan to use sustainable methods of grounds maintenance that supports native landscapes</li> </ul>
7.1.3	Collaborate with regional partners to pursue local, state, and federal funding to achieve the goal of conserving at least 30% of community land by 2030, with an emphasis on connecting preserved land and protecting vulnerable ecosystems.	<span style="color: yellow;">●</span> <span style="color: blue;">●</span>	Long	Community Partners (P)	\$\$	<ul style="list-style-type: none"> <li>Emphasize collaboration and consider dedicating resources to conservation and land stewardship</li> <li>Work with land trust and support protection of marshes (including migration areas) and other priority areas for resilience, habitat, and sequestration</li> <li>Consider protecting existing municipal lands that have high recreation/conservation value</li> <li>Ensure zoning for compact neighborhoods is balanced with conserving land</li> </ul>

# PUBLIC HEALTH & RESILIENT COMMUNITY

	Benefits	Timeframe	Roles	Cost	Implementation Considerations
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## Goal 8: People, services, and infrastructure in Freeport are prepared and resilient to climate change

### Strategy 8.1: Prepare town services and resources for public health and safety risks exacerbated by climate change

8.1.1	Develop a heat wave management plan to prioritize strategies and develop protocols to reduce community vulnerability during heat waves.	 	Short - Medium	Emergency Management Director (P)	-	<ul style="list-style-type: none"> <li>Plan to include cooling centers and cooling features outdoors and coordinated with increased trees/green landscaping</li> <li>Standard operating procedures for cooling centers and outreach</li> </ul>
8.1.2	Create a process for systematically integrating state projections for climate change into the updated Freeport Emergency Management Plan, the zoning code, new capital improvement projects, and development of the annual budget moving forward.		Medium	Town Manager (P)	-	<ul style="list-style-type: none"> <li>Including revisions to evacuation routes/plans</li> <li>Integrate best practices into EMP Climate Annex and mitigation strategies</li> <li>Consider creation of zoning resilience overlays to help protect buildings and neighborhoods from climate emergencies, including sea level rise (SLR), storm surge, and inland flooding</li> </ul>
8.1.3	Create or expand a 'community atlas' resource library for residents including resilience resources, adaptation tools, and public safety and health/emergency management information.	 	Medium	FSAB (P) Community Partners (A)	-	<ul style="list-style-type: none"> <li>Partner with local health and wellness service providers, including educators, to promote access to resources that address chronic stressors, including mental health services</li> <li>Education and broad community engagement/outreach on existing resources</li> <li>Outreach to support residents have resources to last 3-days</li> <li>Could depend on completion of EMP</li> </ul>
8.1.4	Develop neighborhood emergency networks or 'resilience hubs' to distribute information and organize resources during emergencies.	 	Short - Medium	Emergency Management and Public Health (P) Community Partners (A)	\$\$	<ul style="list-style-type: none"> <li>Yarmouth's COVID network as model</li> <li>Model CERT program- identify these individuals with Town credentials such as citizen academy</li> <li>Make sure any volunteers are engaged - a couple times a year are activated for a drill and brought in for training</li> </ul>

### Strategy 8.2: Protect groundwater resources, food networks, and natural working lands

8.2.1	Adopt policies that help preserve existing food system operations, promote programs that facilitate new production, and fill gaps in distribution to residents in need.	 	Medium	Ordinance Committee (P) Community Partners (A)	-	<ul style="list-style-type: none"> <li>Identify local food and aquaculture networks as an economic development priority (TIF policy)</li> <li>Increase year-round community gardens infrastructure, greenhouses; year-round farm to-table hub including indoor and outdoor Farmer's Market with FCS Food Pantry connection / WIC</li> <li>Assess vulnerability of agricultural lands</li> </ul>
8.2.2	Expand fertilizer and pesticide ordinances to reduce runoff pollution.		Short - Medium	Ordinance Committee (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Emphasize incentives, guidance, and resources available</li> </ul>
8.2.3	Enhance the protection of groundwater in zoning.	 	Medium - Long	Planning Board (P) Town Manager (A) Community Partners (A)	-	<ul style="list-style-type: none"> <li>Consider groundwater protection overlay to protect public drinking water sources.</li> <li>Work closely with public drinking water suppliers to identify future needs</li> </ul>

# PUBLIC HEALTH & RESILIENT COMMUNITY

		Benefits	Timeframe	Roles	Cost	Implementation Considerations
<b>Strategy 8.3: Ensure public and private infrastructure is resilient to sea level rise and flooding</b>						
8.3.1	Use the Vulnerability Assessment to prioritize investments for at-risk public infrastructure and community assets and incorporate climate projections into planning.	 	Short	Town Manager (P)	-	<ul style="list-style-type: none"> <li>Link prioritization into CIP and budgeting</li> <li>Conduct review of CAP vulnerability assessment with all leadership (Town, quasi-public entities.) to determine coordinated steps needed for critical asset protection.</li> <li>Lean on existing data and tools (GMRI, etc)</li> </ul>
8.3.2	Establish and implement flood prevention measures that exceed the Town's current standards to be eligible for the FEMA Community Rating System program.	  	Medium - Long	Town Staff (P)	\$	<ul style="list-style-type: none"> <li>Complete the Maine Flood Resilience Checklist and develop an implementation plan to reduce impacts from sea level rise and riverine flooding. Restrict building in high risk areas</li> <li>Assess the vulnerability (current and future) of the town's roads and bridges</li> <li>Restrict building/rebuilding in floodplain</li> </ul>
8.3.3	Assess the needs of the working waterfront, coastal commercial establishments, and public coastal infrastructure and implement strategies that address climate change mitigation or adaptation.	  	Medium	Town Staff (P) Community Partners (A)	-	<ul style="list-style-type: none"> <li>Use Vulnerability Assessment and existing baseline data from GMRI, etc.</li> <li>Engage commercial waterfront property owners to develop resiliency plans</li> <li>Collaborate with regional partners for assessment, data, and best practice solutions</li> </ul>
<b>Goal 9: The Town advocates for broader efforts critical to a healthy and resilient future</b>						
<b>Strategy 9.1: Demonstrate Town support for State and International initiatives to transition away from fossil fuels</b>						
9.1.1	Endorse the Fossil Fuel Non-proliferation Treaty.	   	Short	Town Council (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Demonstrate leadership and kickoff Climate Plan implementation with strong signal of alignment with international commitment</li> </ul>
9.1.2	Divest Town public funding from assets linked to fossil fuels.	  	Short	Town Council (P) FSAB (A)	-	<ul style="list-style-type: none"> <li>Consider a majority percentage of portfolio divested for flexibility</li> <li>Examine other Towns divestment criteria</li> <li>Signal support for State divestment efforts</li> </ul>

# Metrics to Track Progress

Ensuring we reach our goals requires consistently measuring our progress over time. The following metrics represent some of the data we will track in the coming years to measure progress.

Metric	Baseline Data (Year)	2030 Target	2040 Target	2050 Target	Anticipated Data Source
<b>MTCO2e from on-road vehicles by class</b>	53,580 MTCO2e Passenger (light-duty) 21,146 MTCO2e Commercial (medium/heavy-duty) (2019)	~25,000 MTCO2e (combined)	~7,600 MTCO2e (combined)	~500 MTCO2e (combined)	GHG Inventory Update
<b>Vehicle miles traveled (VMT) by fuel type</b>	123,194,163 VMT gasoline 13,940,686 VMT diesel ~0 VMT electric (2019)	60 million VMT gasoline 12 million VMT diesel 67 million VMT electric	29 million VMT gasoline 10 million VMT diesel 103 million VMT electric	~0 VMT gasoline 8 million VMT diesel 139 million VMT electric	GHG Inventory Update
<b>Vehicle Miles Traveled (VMT) per person</b>	16,250 VMT/Person (2019)	Achieve and maintain 10% reduction in VMT per person			GHG Inventory Update
<b># of public EV charging ports</b>	8 Level 2 ports, 0 DC Fast, 8 Tesla Superchargers (2022)	Maintain increasing trend with focus on distribution and access for renters and low-income residents			Plugshare, or other public database
<b>% of vehicles registered in Freeport that are electric (plug in)</b>	2.4% N = 108 BEVs and 101 PHEVs registered (2022)	30%	80%	90%	Annual Electric Vehicle Data, Vehicle Populations by Town, Maine DEP
<b>% of municipal fleet that is electric</b>	0% (2023)	Continue EV replacement as fleet vehicles are retired (as market allows).			Town Manager
<b>% of total housing stock located within 1/4 mile of transit</b>	New Metric	50%	80%	100%	GIS (Town or GPCOG)
<b>Emissions (MTCO2e) from residential and commercial buildings</b>	25,695 MTCO2e residential 21,612 MTCO2e commercial (2019)	14,854 MTCO2e residential 5,984 MTCO2e commercial	7,121 MTCO2e residential 1,721 MTCO2e commercial	~500 MTCO2e residential ~0 MTCO2e commercial	GHG Inventory Update
<b>Heat pump permits issued per year for installation in residential and commercial buildings<sup>15</sup></b>	New Metric	1,757 new residential installs (226 per year between 2024-2030) 1,200 new commercial installs (171 per year between 2034-2030)	1,360 new residential installs (43 per year between 2031 and 2050) 225 new commercial installs (11 per year between 2031 and 2050)	3,112 total new residential installs by 2050 1,425 total new commercial installs by 2050	Codes Department permitting information
<b>% of municipal buildings that are heated with renewable energy</b>	0% (2023)	Target to be determined.	80% <sup>16</sup>	100%	Department of Public Works
<b>% of municipal electricity from renewable energy sources</b>	>70% (2023)	100%	100%	100%	Town Manager

<sup>15</sup> As electrification technology evolves, it may be more accurate to track the percentage of homes using electricity for heating. In 2019, 11.8% of Freeport homes were heated with electricity (or solar) as reported by the US Census American Community Survey.

<sup>16</sup> Aligns with [Federal Sustainability Plan](#) to achieve net zero emissions from federal buildings by 2045

# Metrics to Track Progress

Ensuring we reach our goals requires consistently measuring our progress over time. The following metrics represent some of the data we will track in the coming years to measure progress.

Metric	Baseline Data (Year)	2030 Target	2040 Target	2050 Target	Anticipated Data Source
Emissions (MTCO2e) from municipal solid waste (MSW) incineration	5,248 MTCO2e (2019)		Stable or decreasing trend		GHG Inventory Update
% diversion rate	33.7% (2019)	40%	50% <sup>17</sup>	70%	Town Engineer/Recycling Center
% of permanently protected land	16% of land is conserved	30%	Maintain 30% or adjust based on State targets		Maine Conserved Land GIS Map and Freeport Conservation Trust calculations
% of critical infrastructure at high risk	New Metric		Decreasing trend, as close to 0% as possible		Department of Public Works/ Town Engineer
% of designated critical facilities with backup power	New Metric	50%	100%	100%	Police and Fire and Rescue Departments

## Improved Tracking

Progress on some actions in this plan cannot be monitored by metrics currently being tracked. Developing processes for tracking and monitoring additional metrics will improve the Town's understanding of progress.

- Number of participants in Community Solar programs
- Total kW of distributed solar capacity
- Permits for EV chargers installed by building use type (multifamily, business, residential, affordable housing)
- Residents Commuting in Single Occupancy Vehicles (SOVs), % of modeshare
- # of trips taken on public transit per year, % of modeshare
- Tons of waste generated by sector
- Number of fully electric buildings
- Reported Building Energy Use Intensity (EUI)
- % of residents within 10-minute walk of a park
- Tree canopy coverage
- Miles of bicycle lanes/paths

<sup>17</sup> The State of Maine aims to achieve a 50% diversion rate of MSW and decrease waste per capita.