

February 2024

PRELIMINARY DRAFT



Acknowledgements

Residents, businesses, organizations, and Town staff have taken meaningful steps through the years to care for the environment, reduce greenhouse gas emissions, and enhance the health, safety, and wellbeing of our community. These efforts have fostered a shared vision of a sustainable future for our town.

Freeport Sustainability Advisory Board (FSAB)

Mandy MacPherson, Co-Chair Valy Steverlynck, Co-Chair Kristen Dorsey Susana Hancock Josh Olins, Ex Officio Jim Reinertsen Megan Shore Bob Stevens

Town Staff

Meddy Smith, Sustainability Coordinator Cecilia Smith, Assistant Planner Adam Bliss, Town Engineer Caroline Pelletier, Planning Director Paul Conley, Chief of Fire/Rescue Department Sophia Wilson, Town Manager We express our thanks to the dedicated Town staff and community volunteers for their commitment, collaboration, and knowledge in this important endeavor. We also extend our gratitude to community members and stakeholders who actively participated in the process, providing valuable input that ensured this plan aligns with the priorities and values of our community.

Consultant Team

Sara Mills-Knapp, GPCOG Director of Sustainability Kelly Rehberg, GPCOG Sustainability Program Manager Anna Paddock, Sustainability Associate Jonathan Gagne, Sustainability Program Coordinator



Photos were provided by Town Staff unless otherwise noted.



Freeport Climate Action Plan

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Freeport is a unique community. We enjoy a picturesque coastline and strong connection to our natural environment, a vibrant culture and economy, and an engaging community - making this town special not only to those who live here year round but also those who come to visit for a day. To safeguard Freeport's values and vital assets for future generations, we must come together to bolster our resilience against the increasing threats of climate change, such as rising seas, severe storms, and heightened public health risks. Addressing this challenge is an opportunity for individuals, businesses, and community leaders to collectively shape a healthy and just future for generations to come.

The Town of Freeport, like other local governments, can lead and empower our community to reduce our contribution to climate change while adopting proactive policies and providing services for a safe and livable tomorrow.

PLANNING OUR FUTURE

This Plan fits into an evolving landscape of thoughtful efforts that guide the Town forward. Just before this Climate Action Plan process began, the Town completed the Freeport Downtown Vision Plan and in 2023 the Town embarked on a process to update the Comprehensive Plan. These plans, among others, strive to guide growth, adapt to change, and maintain a high quality of life in the town. The Climate Action Plan, working together with other planning efforts, will shape actions across our community, ensuring a robust and resilient economy, protecting our natural environment, and supporting a safe and healthy Freeport for future generations.

The time to act is now, and Freeport is forging a path forward.



NAVIGATING THE PLAN

See the highlights

Read the executive summary to get an overall view of the plan. Alternatively, a summary of key facts and concepts can be found at the start of each chapter.

Learn how to become part of the solution

Each chapter contains concrete suggestions and further resources for readers who wish to take action.

Dive into one topic

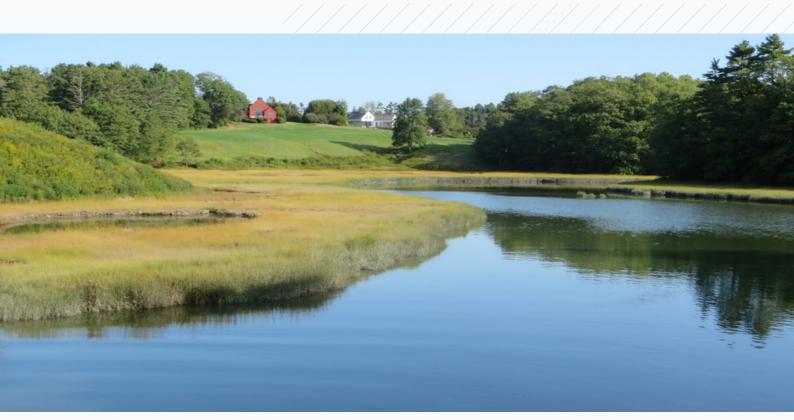
Within this document, you can skip ahead to whichever topic is of most interest to you. Each chapter contains information about the relevant impacts of climate change and proposed actions.

Discover how the Plan was created

Read the Developing the Plan section to learn about the people and processes involved in creating this document.

Dive into the details

Data which helped shape our baseline knowledge can be found in the appendices. There is also an Implementation Table, which lays out all the proposed actions.





1 THE CONTEXT

Climate Change in Freeport

Greenhouse gases (<u>GHGs</u>) play a crucial role in supporting life on Earth by trapping heat in the atmosphere and acting as a thick 'blanket' to regulate the planet's temperature.

Unfortunately, human activities - mainly deforestation and burning <u>fossil fuels</u> such as coal, oil, and gas - have drastically increased the concentration of GHGs in the atmosphere. This excess of GHGs trap even more heat which disrupts climate patterns around the world. The result is more extreme heat, intense storms, rising sea levels, and changing ocean conditions that Freeport is already experiencing.



Temperatures along coastal Maine have risen 3.2° F since 1895 and every year since 1997 has been above the yearly average.¹Warmer temperatures are bringing more risk of respiratory illness and mosquito-borne diseases (like Lyme).

By 2050, Freeport can expect up to 30 more days over 90°F each year.²

High temperatures intensify the need for emergency services (like cooling centers), increase the health risks for vulnerable residents, jeopardize water supplies, and stress the electricity grid.



SEA LEVEL RISE

The water levels in Casco Bay have risen by 7.5 inches since 1912.³

The State urges communities to commit to manage 1.5 feet of sea level rise by 2050 and 3.9 feet of sea level rise by 2100.

Rising sea levels will impact Freeport's coast and tidal rivers, causing erosion, groundwater contamination, loss of dry beach area, destruction to habitat, and damage to coastal property and marine infrastructure.

Sisks to Freeport

- ¹ Maine Won't Wait <u>Dashboard</u>
- ² Maine Public Radio, <u>Maine Winters are Shortening</u>, 2022
- ³ Maine's Climate Future 2020 Update
- ⁴ Maine Won't Wait Climate Action Plan, Maine Climate Council, 2020



Total annual precipitation (rain and snow) in Maine has increased 15% (~6 inches) since 1985, but snowfall has decreased by 20% - meaning we are experiencing more frequent extreme precipitation events but less snow.⁵

By 2050 we could see a 50% decrease in <u>snowpack</u> and more heavy and damaging rainstorms.⁵

Intense storms bring high winds and flooding which disrupt access to essential public services, cause power outages, and create costly damage to Freeport homes, businesses, and critical infrastructure such as roads and bridges.



CHANGING OCEAN CONDITIONS

The Gulf of Maine has warmed faster than 99% of the global oceans, and Casco Bay water temperature has increased 2.5°F (1.4°C) in the last decade. Species are moving northward and invasive species are increasing.

Warming and acidifying ocean conditions will continue to effect marine ecosystems and only accelerate as the climate changes.

Shifting species and degrading Casco Bay habitat will impact the livelihoods of residents that depend on our marine economy, including shellfish and tourism industries.





In 2100, Maine's climate could feel like present day Rhode Island.

WHAT WE HEARD

Quotes from the Community Survey

"There has seemed to be less snow and when we do get snow, the warmer temperature means rain is often mixed in." "More ticks makes it more difficult to enjoy the Maine outdoors, even more so when I take my dogs."

"[I have] more concern about our traditional industries like fishing and lobstering."

- 5 Maine's Climate Future 2020 Update
- 6 Annual Warming Update, Gulf of Maine Research Institute, 2022
- ⁷ Maine Won't Wait Climate Action Plan, Maine Climate Council, 2020



We Are Experiencing the Impacts

Freeport is already experiencing the negative impacts of climate change such as flooding, higher temperatures, and changing ocean conditions, and they will intensify in the coming years. Freeport has an elevated coastline and relatively <u>low social vulnerability</u>, which support our overall ability to respond to climate impacts. However, the burden of climate change will not be felt equally across our community. People with existing social vulnerabilities, such as senior citizens, families managing disabilities, or cost-burdened households, will be disproportionately impacted by <u>climate hazards</u> and climate-related health risks. As we take steps to protect our community from climate impacts, we have an opportunity to address existing inequities and pursue a more just future benefiting everyone.

There are several priority strategies Freeport can pursue to prepare for climate hazards:



Ensure key travel roads and critical infrastructure such as bridges and culverts are prepared to withstand increased precipitation and sea level rise so emergency management and the community have access to neighborhoods and services during storms



Protect inland and coastal waters to ensure safe water quality and preserve the coastal-dependent economy



Make sure the community has the information and resources they need to be healthy and safe, especially during times of extreme heat



Conserve land, protect natural systems, and expand <u>green infrastructure</u> to support clean air and water, recreation, and <u>carbon sequestration</u>

A healthy tomorrow begins with action today.

The efforts we take today to lower emissions that cause climate change and to prepare for impacts and challenges to come will help ensure Freeport is healthy, vibrant, and safe for generations to come. We need to take steps to protect our future now, because, according to the top 2,000 climate scientists in the world, our window for action is closing.

WHAT WE HEARD

Quotes from the Community Survey

"Climate changes will affect populations with less resources at a higher scale. We should prioritize having resources readily available for everyone."

"Taking action now to anticipate further flooding, fires, drought, and coastal erosion to keep ahead of the impacts will save time and money in the long run."

⁹ IPCC, Sixth Assessment Report, Climate Change 2022: Mitigation of Climate Change, 2022.



⁸ Freeport Vulnerability Assessment, GPCOG, 2024



The cost of inaction

We usually focus on the immediate costs of taking action. Yet not taking action on climate change comes with its own price. The consequences of inaction are already visible—more damaging floods and storms, exacerbated health issues taking physical, mental, and financial tolls on families, and people losing their livelihoods because of warmer seas and changing industries.

We can save money in the long run by reducing our dependence on fossil fuels, strategically planning our transition to efficient, renewably-powered buildings and vehicles, and shifting to a less wasteful circular economy. As the technology, funding, and affordability of the 'low carbon' economy evolves, we can be ready to leverage opportunities as they come.

"While mitigating the causes of climate change and better preparing Maine for its impacts will require significant public and private investment,

inaction will cost Maine substantially more, and those costs will accelerate over time."

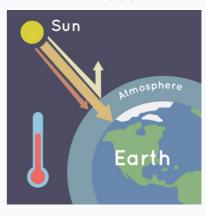
- Maine Won't Wait, State Climate Action Plan 2020



REDUCING OUR CONTRIBUTION

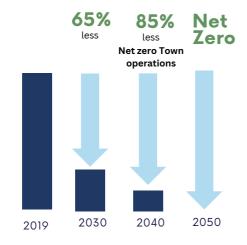
Greenhouse gas (GHG) emissions are pollutants that are created by burning fossil fuels, like oil and gas. They stay in our atmosphere where they trap the sun's heat and disrupt climate patterns, such as temperature and precipitation. These changing climate conditions are causing hazards that we experience such as extreme heat, drought, flooding, and other negative impacts to our public health, safety, economy, natural ecosystems, and quality of life.

THE 'GREENHOUSE EFFECT'



To address these hazards, the global scientific community has reached consensus that we must tackle the source of climate change by urgently and dramatically reducing GHG emissions. Action at the local, regional, and national level by governments, individuals, and businesses to reduce GHG emissions can help avoid the worst effects of climate change. As a first step to reducing emissions, communities are committing to targets that will guide how much, and how fast, they want to reduce emissions.

Net Zero is when the greenhouse gases going into the atmosphere are balanced by reduction and removal from the atmosphere.



Freeport Community-wide GHG Reduction Targets from a 2019 Baseline

SETTING OUR TARGETS

Leading up to the launch of the Climate Action Plan, the Freeport Town Council endorsed a set of targets to reduce community-wide and municipal GHG emissions to net zero, by 2050 and 2040 respectively. These targets will help guide the Town's efforts to minimize its contribution to climate change, serving as benchmarks to measure progress and establish long-term commitments for a sustainable future.

This Climate Action Plan lays out the first steps toward reaching Freeport's targets.

MEASURING LOCAL EMISSIONS

We can't manage what we don't measure! The Town conducted a GHG Inventory* using a 2019 baseline year that:

- pinpoints the major sources of emissions in Freeport,
- identifies our biggest opportunities to reduce emissions, and
- acts as a baseline for measuring progress on our targets.

The inventory also served as the foundation for the many high-impact strategies and actions outlined in this Plan.

Freeport Climate Action Plan

HOW DO YOU MEASURE GHGs?

To understand how a given entity produces GHG emissions, current best practice relies on developing an inventory model (i.e., estimate) of the emissions that are created from various activities using available data. GHG Inventories take into account the activities that occur within a boundary and use standard assumptions to model what emissions are produced at a snapshot in time. Inventories are not a way to track individual carbon footprints, but are rather a tool to understand the relative amount of energy for different sectors and activities, such as energy used to heat homes and operate businesses, and fuel used for different types of vehicles. The modeling takes the energy used and converts it to a common unit of emissions, MTCO2e (defined below).

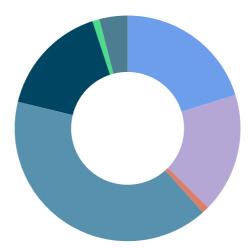
Climate-disrupting greenhouse gases (GHGs) come from many sources, but in large part from burning polluting fossil fuels to power our homes, businesses, and vehicles. The sooner and more aggressively we take action to reduce our emissions, the better chance we have of slowing down climate change to a manageable pace.

EMISSIONS BY SECTOR

In Freeport, the majority of emissions (58%) come from transportation. Fossil fuel use in residential, industrial, and commercial buildings accounts for the second-largest source of emissions (38%).

EMISSIONS BY SECTOR*

- 20% Residential Buildings
- 17% Commercial Buildings
- Industrial Buildings
- 40% Passenger Vehicles
- **16%** Commercial Vehicles
- 1% Buses
- ▲ >1% Marine Vessels
- **5%** Waste





Emissions from Town operations contribute 1% of the community-wide total. Most of municipal emissions come from fossil fuels used for vehicles in the Town fleet.

Figure 1. Emissions by Sector, 2019

132,638 MTCO2e

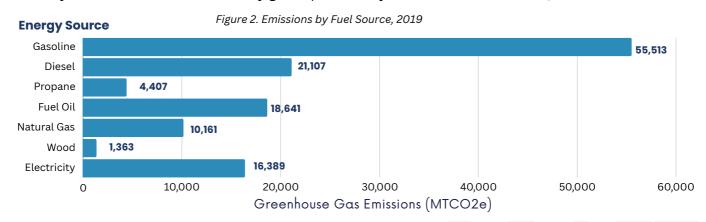
Of greenhouse gases in 2019

GHG emissions are measured in **metric tons of carbon dioxide equivalent** (MTCO2e). The tonnage of other greenhouse gases (e.g. methane, nitrous oxide) is adjusted to the equivalent tonnage of carbon dioxide necessary to produce the same warming effect so everything is reported in the same units.

EMISSIONS BY SOURCE

Analyzing energy sources and amounts of emissions helps pinpoint the activities that are driving emissions. Gasoline used for vehicles is the largest portion of emissions compared to other energy sources, and nearly all of this gasoline is for light-duty vehicles (i.e., passenger cars). Diesel for heavier-duty vehicles is the second largest source of emissions, and building heating fuels, especially oil and gas, make up a significant portion.

Electricity also contributes emissions because it is still generated using fossil fuels. Emissions from electricity will decrease as our electricity grid is powered by more <u>renewable sources</u>, like wind and solar.



^{*}Emissions modeling methodology and limitations are detailed in the Greenhouse Gas Inventory Report in the Appendix.

Vehicle Trips

Since a large portion of our community-wide emissions come from fuel used for transportation, looking more closely at how and when vehicle travel occurs helps us understand traffic patterns and opportunities for reducing emissions.

As in many destinations across Maine, significantly more trips are taken around Freeport in the summer months and winter holidays, reflecting the busier season for recreation, tourism, visiting stores and restaurants, seasonal employment, and other factors (figure 4).

Light-duty vehicles (including passenger cars) account for about 90% of all vehicle miles traveled (VMT) throughout 2019 within Freeport. Although medium- and heavy-duty vehicles make up roughly 10% of trips, they account for 28% of transportation emissions, largely because they are less efficient and use more polluting fuels, such as diesel.

Figure 3. Emissions by Vehicle Class, 2019

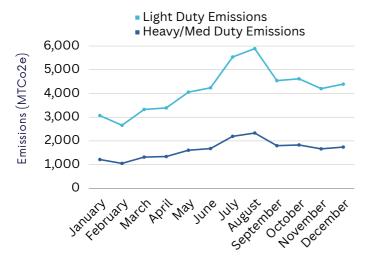
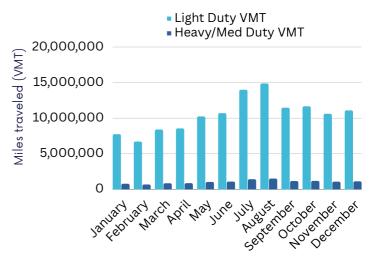


Figure 4. Vehicle Miles Traveled by Vehicle Class, 2019



Light-duty vehicle category includes most vehicles manufactured primarily for the purpose of carrying passengers, including motorcycles and all two-axle vehicles.

Heavy- and medium-duty vehicle category includes single-unit trucks (single frame with two to four axles), and combination trucks with five or more axles.

See more data on transportation in the Appendix.





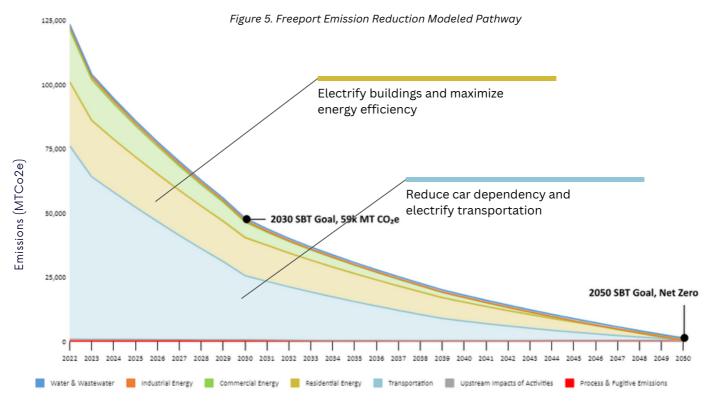
Burning fossil fuels to power vehicles is by far the biggest source of emissions in Freeport.

Gasoline alone accounts for 42% of all emissions in Freeport.



PATHWAY TO ZERO

Reducing our reliance on fossil fuels across all sectors will be critical to lower emissions and meet our targets. The graph below models one potential pathway for how we could reduce community-wide emissions to net zero by implementing essential strategies between now and 2050.



SBT refers to the 'Science-based Targets' for reducing emissions that Freeport adopted for 65% reduction in community-wide GHG emissions by 2030 and net zero GHG emissions by 2050.

Reducing emissions to net zero in line with our targets will require our community to move quickly to adopt solutions that maximize energy efficiency, transition transportation and heating to run on renewable energy, and reduce our reliance on car travel. Implementing these essential strategies can also align with -and complement- other community priorities such as sustainable economic development, affordable and healthy housing, safer streets for walking and biking, equity, and quality of life.

Efforts in these areas are already underway in Freeport, such as the Electrify Everything! program and Complete Streets initiatives. As we continue to work together to implement these essential strategies, we will also be relying on another overarching effort - transitioning our electricity to 100% renewable energy such as solar or wind - which is supported by State efforts to 'green the grid'.*

If Freeport successfully implements all objectives in this Climate Action Plan, we will move forward on our pathway to reach our net zero emissions target.

^{*}Maine electric suppliers are required to provide an increasing amount of new renewable energy to Maine consumers, reaching 80% total renewable energy provided by 2030. Maine is on track to meet the standard as required by statute and reached 51% in 2023. Local efforts to increase clean energy support this goal. (Maine Won't Wait Progress Report, 2023)



FREEPORT'S COMMITTMENT TO CLIMATE ACTION

Addressing sustainability and climate change has been a focus in Freeport in recent years - both in the local government and wider community. Alongside consistent efforts among the community to steward our environment, save energy, and support resilience, municipal staff, volunteer boards, and Town leadership have achieved notable progress in recent years. This plan builds off past and ongoing efforts from the Town, local organizations, and individuals striving for a sustainable, just, safe, and healthy future for Freeport.

2020 2021

Adopted Complete Streets Policy and established Tree Task Force

Purchased hybrid vehicles for Fire and Police Chiefs

Established standards for solar installations

Allocated funding for biking and walking infrastructure on major highway bridges



2022 COMMUNITY
RESILIENCE PARTNERSHIP

Enrolled in Community Resilience Partnership (CRP)

Won CRP grant award with Yarmouth to hire a shared Sustainability Coordinator

Accomplishments before 2020, such as the successful SolarizeFreeport campaign in 2015, helped lay the foundation for recent progress.



Adopted emissions reduction targets and began development of the Climate Action Plan

Launched Electrify Everything! Town rebate program to empower low- and moderate-income residents to invest in electric and efficient services and equipment. Initiated by citizen group FreeportCAN.

In response to a citizens petition drive conducted by FreeportCAN, the Town adopted the IECC 2021 'Stretch' code to enhance efficiency in new construction and renovations.



Supporting State and Federal Commitments

Freeport is not alone in addressing climate change. Tackling climate change requires decisive action across federal, state, regional, and local governments. In 2020, Maine's Climate Council released the State's first Climate Action Plan - Maine Won't Wait. The State committed to reducing GHG emissions by at least 80% by 2050 from 1990 base levels and reaching net zero by 2045. In 2021, the federal government pledged to reduce GHG emissions 50% by 2030 from 2005 levels and to reach net zero emissions by 2050 at the latest.¹⁰

By achieving the goals set in Freeport's Climate Action Plan we will support state and federal climate commitments.

At the same time, state and federal government action can enable Freeport to make progress by creating funding opportunities, fostering regional partnerships, and developing emerging technologies. By having a Plan, Freeport is well positioned to take advantage of opportunities as they become available by leveraging associated grants and technical support.

Funding Opportunities







Bipartisan Infrastructure Law (BIL)

Provides grants to help municipalities establish programs to reduce emissions from transportation and buildings as well as technical assistance to help communities become more resilient to climate hazards. Also requires other funded entities (states, non-profits, and companies) to consult with relevant communities and develop Community Benefit Plans (CBP). This Climate Action Plan positions Freeport to leverage additional resources through CBPs.



Provides tax credits and direct payments to tax-exempt entities to reduce the costs of investing in electric vehicles (EVs) and clean energy. Like the BIL, the IRA also requires CBPs.

FEMA BRIC and Hazard Mitigation Grants

Building Resilient Infrastructure and Communities (BRIC) grants to support communities undertake hazard mitigation projects to reduce the risks from disasters and natural hazards.







Maine Community Resilience Partnership

Provides grants for municipalities to upgrade facilities, invest in resilient public infrastructure, encourage community climate action, and more.

Maine Infrastructure Adaptation Fund

Funding for municipalities to adapt critical infrastructure to reduce vulnerability to climate change resulting from extreme weather, sea level rise, inland and coastal flooding, and severe heat.

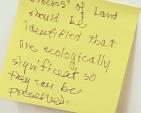
Coastal Community Grants

Provides grants for municipalities to improve water quality, increase adaptation to erosion and flooding, restore coastal habitat, promote sustainable development, and enhance the coastal-dependent economy.

Shore and Harbor Planning Grants

Grants for shoreline access planning, waterfront and harbor planning, and efforts for resilient waterfront infrastructure.











to articulate the value of conserved lands to the Community

2 THE PROCESS

DEVELOPING THE PLAN

This Plan was developed with input from Town departments, resident committees, community stakeholders, and members of the public. Throughout the process, we strove to reach people with different experiences, backgrounds, and priorities to understand current needs and capture ideas and creative solutions.

The Freeport Sustainability Advisory Board (FSAB) is a Town volunteer resident board that advises

the Freeport Town Council on sustainability and resiliency policy and practices, collaborates to advance climate solutions, and provides outreach and education. FSAB developed the recommendation for emission targets adopted by the Town Council and led the Climate Action Plan process.

OUR TIMELINE

Getting the Team in Place Dec 22 - Mar 23

Community Resilience Grant Award, begin work with GPCOG and hire part-time Sustainability Coordinator Data Collection and Analysis Feb - Dec 23

GPCOG collects data to analyze emissions and assess vulnerability

Developing the Plan Sep 23 - Mar 24

Developing and refining actions with Town Staff and public and stakeholder input

Engaging the Community

Mar - Oct 23

Crafting strategies and actions tailored to our community through workshops, surveys and polls, and direct outreach to stakeholders and the public



Community Workshops
Community Survey

Action Feedback Polls

Town-wide mailer with link to Action Polls

Direct outreach and conversations with stakeholders





COMMUNITY ENGAGEMENT

Staff and FSAB led direct individual and group conversations with

30+

stakeholders (Town committees, local organizations, businesses, State representatives, nonprofits etc.) across 8 months.

Residents, businesses, community organizations, and Town committees and staff all had opportunities to guide this plan. Through workshops, surveys, and conversations our community shared their priorities and ideas to help refine the actions recommended in this plan and shape our efforts to address climate change.

FSAB partnered with the Chamber of Commerce and ClimateWork Maine for business events Town mailer with information went out to

4,359

addresses



respondents to surveys, polls, and online activities

Two yearlong permanent displays at the Freeport Community Library and displays at the Town Hall lobby The Plan was discussed at

Municipal meetings, including Town Council and FSAB monthly meetings Announcements shared

~150

participants at 3 community workshops

Announcements shared via the Town's electronic sign, Town newsletter, and social media 700+

Climate Action Plan Community Workshop

May 15th, 6-8pm

contacts reached through the FSAB newsletter list

FSAB tabled on Election Day in 2022 and 2023

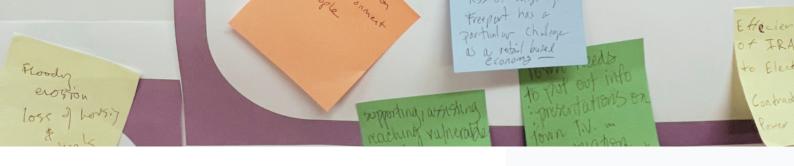
ONLINE PRESENCE

The project website has been a hub since early 2023 for sharing information, hosting surveys and polls, and displaying project updates. Information about the project was also shared on the Town's social media and through the Town bulletin and FSAB newsletter, for a combined total reach of over 3,000 contacts through those outlets alone.

STAFF AND COMMITTEE INPUT

Throughout the process, Town staff shared their feedback to help co-create the plan. Staff have intimate knowledge of the resources required to accomplish actions and an understanding of the landscape of other Town projects, priorities, and policies. Staff and resident committees will ultimately be responsible for implementing actions in this plan and success depends on our ability to collaborate, share information, and align on projects to meet our shared goals.





WHAT WE HEARD

More than 100 people responded to a community survey at the beginning of the planning process. This feedback was paired with what we heard at workshops, events, tabling, and in stakeholder and staff conversations to help shape the Plan.

Top 4 Concerns

Changing Ocean Conditions

Extreme Weather Events

Saa Laval Rise

Extreme Heat

Leading the Way

66%

of respondents want the Town to have a more aggressive emissions target than the State

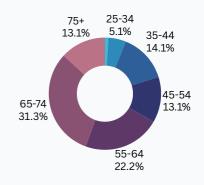
Respondents want the Town to be a leader in climate action.

- 30% leader in the State
- 17% leader in the County
- 16% leader in New England
- 11% leader among neighboring towns
- 8% national leader
- 7% international leader

46%

of survey respondents have lived in Freeport more than 20 years

Age Distribution of Survey Respondents



Residents are taking action.

47% of respondents have installed a heat pump

58% of respondents try not to buy things they don't need

82% of respondents switched to efficient lights (LEDs)

58% of respondents strive to reduce wasted food

And we heard so many other actions Freeporters take for a healthy future.



"More businesses leading the way, more and more local contractors understanding high efficiency best practices. More and more restaurants embracing local food." Survey respondent

fossil fuels and as rapidly as possible reduce our carbon footprint. Make sure all town buildings - including schools - are sustainable." Survey respondent



"We look closely at the local things we can do and partner with neighboring towns for an exponentially greater impact." Survey

GUIDING PRINCIPLES

FSAB selected four Guiding Principles to shape the planning process and set priorities for implementing the Freeport Climate Action Plan.



Greenhouse Gas Emissions Reductions

Reducing the town of to climate change



Equity and Inclusion

Ensuring that Town policies, projects, and Freeport's contribution programs are fair, inclusive of diverse voices and experiences, and reduce disparities in our community



Social, Economic, and **Environmental Resilience**

Increasing the capacity of social, economic, and natural systems to thrive in the face of climate impacts



Collaboration and **Transparency**

Communicating openly about plans and progress and fostering a culture of dialogue and partnership

WHAT THIS PLAN OFFERS

AN ACTIONABLE ROADMAP

This Plan is an actionable roadmap that will guide Freeport towards reaching our emission reduction targets and prepare our community for the intensifying impacts of a changing climate.



A FRAMEWORK

Town leadership will use this plan as a framework for making decisions for policy, investment, and projects. Like any public decision-making process, there will continue to be community dialogue and stakeholder engagement. The Plan is intended to be flexible and will be revised at regular intervals as progress on actions and trends in data are assessed. As better data or tools become available or as new technologies and opportunities emerge, the Town will update the Plan to follow best practices.



A TOOL FOR COMMUNITY ENGAGEMENT

The climate crisis requires bold and urgent action across our whole community. As the Town implements the Plan, there is an opportunity to bring in more voices, support residents and businesses to take action, and continue to foster a culture of collaboration, justice, and inclusivity in town.





3 THE ROADMAP

GOALS AND STRATEGIES

This Plan is organized into **five focus areas** that address our biggest opportunities for reducing emissions and preparing for climate impacts. FSAB selected the five focus areas based on the priorities that emerged from the GHG Inventory and assessment of our vulnerabilities. Topics in these areas overlap and taking action in one area can advance goals in other areas.

Connected Mobility & Land Use

KEY AREAS

- · Infrastructure for walking & biking
- · Electric vehicles
- Public transportation
- Land use policy

Efficient Buildings & Clean Energy

KEY AREAS

- Energy efficiency
- Local renewable energy, energy supply & grid resilience
- Policies guiding new development

Smart Waste Management & Circular Economy

KEY AREAS

- Reuse systems & reducing consumption/waste
- · Recycling & composting
- Waste policies

Healthy Natural Lands & Waters

KEY AREAS

- Land conservation
- Biodiversity & habitat protection
- Land stewardship practices

Public Health & Resilient Community

KEY AREAS

- Emergency preparedness
- Health & wellness
- Neighborhood connections
- · Critical infrastructure

Benefits

Implementing actions in these areas bring various benefits to our community that overlap with our Guiding Principles. By implementing these actions, we can bring benefits such as equity, affordability and economic vitality, community resilience, healthy environment, and emissions reductions.





CONNECTED MOBILITY & LAND USE

Transportation contributes almost two thirds of our total GHG emissions. The way we design the connections between neighborhoods, businesses, and amenities plays a crucial role in determining how we get around, our emissions, and community character.

Freeport's emissions are predominantly 'driven' by transportation, making up 58% of the total. Gasoline-powered light duty vehicles contribute the most emissions in this sector, followed by heavier duty vehicles, while buses, marine vessels, and the municipal and school fleets have a smaller impact.

Significantly reducing transportation emissions requires electrifying every <u>vehicle mile traveled</u> (VMT) and reducing total VMT. We can do this by promoting walking, biking, and public transportation, along with transitioning to zero-emission vehicles.

Thoughtful land use policies and development practices are crucial to accommodate our growing community while minimizing the long-term contribution of our transportation system to climate change. In addition to changing how residents get around town, we will need to support commuting options that aren't dependent on <u>single-occupancy vehicle</u> travel as well as regional public transit initiatives to reach our goals. We will also need to work closely with the business community to find creative solutions to move visitors, tourists, and shoppers around town in a way that minimizes fossil fuel pollution.

By transitioning to zero-emission transportation and promoting land use practices that are not reliant on cars, we can simultaneously decrease emissions and cultivate a vibrant, well-connected community.



BY THE NUMBERS

58%

of total community-wide emissions from transportation

40%

of total community-wide emissions from light-duty vehicles, 16% from heavy/medium-duty vehicles, and 2% from buses and marine vessels

Approximately

50%

of workers in Freeport commute between 10-24 miles (and the same is true for Freeport residents commuting out of town)



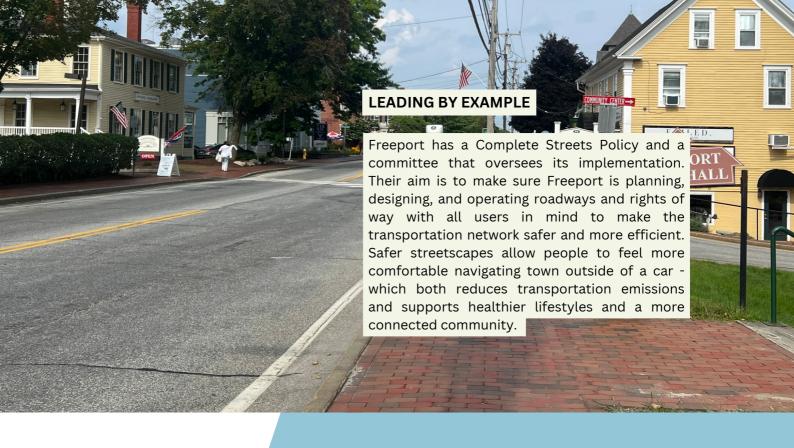
Action Table

The Freeport Climate Action Plan establishes the following goals, strategies, and actions for Connected Mobility and Land Use.

Implementation Considerations
 Standards for different lot type/use Consider prioritizing higher % of readiness VS installed
 Facilitate and support the expansion of regional EV charging network with businesses Pursue funding to install public EV charging stations at municipal facilities
Monitor funding for medium and heavy dut electric vehicle pilot programs
ithout a car
 Collaborate with Complete Streets and regional partners to prioritize existing project ideas Make one pilot program downtown to demonstrate safe streets
Last mile options Incorporate diverse mobility needs
Support business community to facilitate public active transportation, such as bike rentals and trail connections
 Adjust lot size minimums and support smaller homes and workforce housing. Focus on sustainable development that is affordable Pair with mechanism that preserves distributed open space
Complementary policy with EV readiness requirement
implement "no idling zones" at specific areas

Additional action details, including more implementation considerations, are in the Implementation Table.





Be Part of the Solution



Swap one local driving trip each week for walking or biking



Commute by <u>public</u> <u>transportation</u> or <u>carpool</u>



Switch your next car to electric - see <u>rebates and resources</u> from Efficiency Maine

Funding Opportunity Examples

There is federal, state, and local funding available to finance climate action projects that can help Freeport implement this Plan. Below are examples of funding opportunities.

- Maine received another \$15 million to channel into rebates and grants for EV charging networks.
- Maine Jobs and Recovery Plan allocates \$8 million to expand municipal and public charging stations
- Maine Jobs and Recovery Plan has set aside \$5 million to fund innovative public transportation options.





EFFICIENT BUILDINGS & CLEAN ENERGY

Our buildings use lots of energy. Heating systems, appliances such as washers, dryers, and cookstoves, and lights all use energy that mostly comes from fossil fuels. In Freeport, buildings account for 38% of total emissions.

To decrease emissions from buildings, we need to accelerate our efforts to maximize energy efficiency and ensure that homes and businesses in Freeport are able to rely on renewable energy for power, heating, and cooling.

In anticipation of climate change impacts, Freeport's buildings and power systems must also be resilient to intensifying storms, potential flooding, and higher temperatures.

The state's initiative to transition the electricity grid to renewable sources by 2050 will help ensure our electricity needs are met with clean energy. Ensuring that our regional grid is reliable is crucial. The Town can contribute to reliable and resilient electrical infrastructure by exploring opportunities for local renewable energy, <u>battery storage and micro-grids</u> (closed-loop energy systems), and supporting relevant state policies that advance energy affordability and resilience.



BY THE NUMBERS

20%

Of total community-wide emissions come from homes and 18% come from non-residential commercial buildings, including industrial facilities and schools. Most of these emissions are from fossil fuels used for heat.

50%

Of homes use fuel oil or kerosene for heat, 23% use propane, and 7% use natural gas

40%

of homes were built before 1970, making them strong candidates for <u>retrofits</u>, <u>weatherization</u>, <u>and</u> <u>electrification</u>.¹²

¹¹ Renewable Portfolio Standard, Governor's Energy Office

¹² Freeport Vulnerability Assessment, GPCOG, 2024

Action Table

The Freeport Climate Action Plan establishes the following goals, strategies, and actions for Efficient Buildings and Clean Energy.

Goal 3: Buildings in Freeport are designed, built, and maintained to be energy efficient and minimize greenhouse gas emissions						
	3.1: Pursue deep energy efficiency through retrofits and electrification in buildings	Implementation Considerations				
3.1.1	Continue and expand Electrify Everything! as a comprehensive community outreach, education, and incentive program on energy efficiency and renewable energy	 Focus on renters and lower-income households Consider battery bulk purchasing program 				
3.1.2	Adopt Commercial and Residential PACE ordinances and develop supporting outreach to drive participation.	Partner with business leaders and organizations to promote				
3.1.3	Pilot a benchmarking program with businesses that could phase into an Energy Benchmarking Ordinance for larger commercial, residential, and municipal facilities.	 Collaborate with large energy-using commercial facilities and multi-family residences to determine feasible retrofit solutions Review zoning to ID potential conflicts with energy-efficiency 				
3.1.4	Prioritize retrofits for municipal facility upgrades and develop a plan to transition facilities to net zero over time.	 Efficiency Maine funding available Use the priorities identified in the existing energy assessment 				
Strategy	3.2: Require new development and significant renovations to minimize green	house gas emissions.				
3.2.1	Develop phased-in requirements for on-site renewable energy generation and storage, EV-ready, and renewably-powered heating in new construction and major renovations.	 Emphasize incentives, guidance, and resources Provide information and incentives to local contractors to encourage resilient building practices 				
Goal 4:	Freeport is powered by local, resilient, renewable energy					
Strategy	4.1: Maximize renewable energy generated locally and explore opportunities	to enhance grid resilience				
4.1.1	Implement policies and practices necessary to achieve SolSmart certification, or equivalent, for the Town.	Utilize SolSmart resources and technical assistance to amend zoning to reduce barriers to solar				
4.1.2	Enter into a Power Purchase Agreement for 100% clean energy for current demand and forecasted need with electrification of facilities and fleet.	 Understand forecasted demand of electrifying fleet and facilities Site and construct new Town buildings to include solar (or be solar-ready) 				
4.1.3	Require all new large developments (commercial, residential, or municipal) to evaluate feasibility of district energy or microgrids powered by renewable energy.	 Create resources to support this, such as a qualified list of vendors Emphasize incentives, guidance, and resources available 				
4.1.4	Evaluate feasibility for large-scale community solar projects.	Work with expert consultant to identify solar generation opportunities and 3-phase connections				
4.1.5	Develop and implement a Resilient Power Plan to ensure critical facilities have power during emergencies, such as winter storms.	 Batteries at critical facilities Consider public-private partnerships for microgrids and distributed energy 				



Be Part of the Solution



See rebates and resources for investing in efficient <u>home</u>, <u>business</u>, and <u>apartment</u> upgrades



See the <u>Home Action</u>
<u>Guide and Mainer's Guide</u>
<u>to Climate Incentives</u>



Learn if it makes sense to install solar on your home - Energy.gov

Funding Opportunity Examples

There is federal, state, and local funding available to finance climate action projects that can help Freeport implement this Plan. Below are examples of funding opportunities.

- Efficiency Maine is the primary distributor of energy efficiency, weatherization, and building electrification rebates and grants.
- Energy Efficiency Revolving Loan Fund Capitalization Grant provides money to the state to support residential and commercial energy efficiency projects.
- Maine biennial budget has funds to support power sector transformation, grid modernization and offshore wind.
- Energy Efficiency and Conservation Block Grant Program (EECBG) provides grants to communities for clean energy programs and projects.
- Maine Jobs and Recovery Plan has set aside \$50 million to match funds for municipal efficiency projects.
- The Federal Department of Energy offers an Energy Storage Demonstration and Pilot Grant Program.





SMART WASTE MANAGEMENT & CIRCULAR ECONOMY

The waste we produce in Freeport accounts for 5% of total emissions - but this figure only accounts for the collection and processing of waste, not the emissions generated from producing, storing, and transporting materials and products we consume and throw away.

Our current take-make-waste <u>linear economy</u> model is largely based on using finite resources and then ultimately disposing of the products made from these resources - often after only a single use. From furniture and packaging to school supplies, clothes, and food, the materials and items we use each day have a footprint of emissions - largely hidden from us - before they end up as waste.

There is an opportunity to realize the full value of our resources and stimulate innovation and circularity in our local economy by reducing our consumption, buying still-functional used items, reusing goods and materials as many times as possible, and diverting remaining waste to recycling and composting.



13 The New Reuse Economy, Upstream

BY THE NUMBERS

34%

of waste was diverted from incineration through recycling in 2019

1,950 MT CO2e

was avoided by our recycling in 2019, the equivalent of 1% of our total annual greenhouse gas emissions

50%

of glass produced, 10% of wood harvested, 20% of aluminum mined, 40% of plastic (created from petroleum) goes primarily to make single-use packaging¹³



Action Table

The Freeport Climate Action Plan establishes the following goals, strategies, and actions for Smart Waste Management and Circular Economy.

Goal 5: Freeport residents and businesses prioritize using resources efficiently						
Strategy 5	Implementation Considerations					
5.1.1	Phase out single use materials in commercial spaces by expanding single use item bans and promoting reuse systems.	 Focus on packaging Identify solutions for reporting and enforcement. 				
5.1.2	Launch a recognition and outreach program to support businesses to reduce waste and substitute alternatives, especially for single use materials.	 Partner with downtown organizations to reach visitors Encourage circular innovation and reuse businesses in town Consider promoting models for food recovery such as <u>Too Good to Go</u> 				
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.	Valuable for leading by example, potentially lowering operating costs				
5.1.4	Develop an ordinance for all multi-family residences, commercial establishments, and schools that phases in mandatory recycling and composting.	 Emphasize incentives, guidance, and resources available Engage stakeholders to understand barriers 				
5.1.5	Adopt a construction and demolition waste recycling and reuse ordinance.	 Provide contractors with resources for reuse Explore coordination with historical preservation for adaptive reuse Emphasize incentives, guidance, and resources available 				
5.1.6	Develop a library of things that serves as a space to foster opportunities for residents to reuse, repair, and create items and materials.	 Serve as hub for engagement and outreach Create a distinct brand for Freeport circular economy/recycling 				
5.1.7	Develop a network of recycling bins throughout downtown with wayfinding and unique brand.	 Positive behavior change for residents and visitors Partner with businesses 				





Be Part of the Solution



Learn more about what a Circular Economy looks like



Reuse 101 from Upstream



Check out ecomaine's Recyclopedia

Funding Opportunity Examples

There is federal, state, and local funding available to finance climate action projects that can help Freeport implement this Plan. Below are examples of funding opportunities.

- Maine DEP Solid Waste Diversion Grant
- USDA Compost and Food Waste Reduction (CFWR) pilot projects to support food waste diversion
- EPA Recycling Education and Outreach Grant Program to encourage recycling through education
- EPA Solid Waste Infrastructure for Recycling Grants for Communities to support building a circular economy





HEALTHY NATURAL LANDS & WATERS

Freeport's natural environment has shaped our history, economic interests, and plays a vital role in our community identity. The impacts from a changing climate, such as rising seas and extreme storms, threaten the health of our treasured lands and waters.

The spaces and features of our natural environment are not only an essential piece of our town's identity, but they also provide many benefits to our community. Natural areas clean our air and water, reduce flooding during storms, keep us cool in the summer, and provide critical habitat for native species. Changing rainfall and temperature patterns pose risks to the health of our natural lands and waters.

We can strive to ensure that the natural environment around us is healthy and resilient for future generations to enjoy. We can balance the needs of our growing community with being responsible stewards of our water, trees, parks, and open spaces. We can focus conservation efforts to create vibrant, connected habitats while adopting sustainable practices to manage our lands and waters.



14 Maine Stream Habitat Viewer, Maine Inland Fisheries and Wildlife

BY THENUMBERS

The State's climate plan, Maine Won't Wait, recommends communities conserve

30% of land by 2030.

93%

of the 45 stream crossings listed in Freeport are listed as a "Barrier" to habitat connectivity (20) or a "Potential Barrier." (22)"

Nearly

1,800

acres of land are conserved and stewarded by the Freeport Conservation Trust. Several large parcels of recreational land and open space in town are not permanently protected from development.



Action Table

The Freeport Climate Action Plan establishes the following goals, strategies, and actions for Healthy Natural Lands and Waters.

Goal 6: Freeport employs stewardship practices that ensure the ongoing health and vitality of our shores and waters

Strategy	6.1: Prioritize green infrastructure	Implementation Considerations
6.1.1	Conduct a review of land use ordinances and Capital Improvement Plan (CIP) to maximize the comprehensive implementation of Low Impact Development (LID) best practices.	 Road management practices, trees and green islands Coastwise for tidal crossings
6.1.2	Launch a branded ongoing public education and outreach campaign on sustainable landscaping, green infrastructure, lowering light pollution, and resilient land management practices.	 Interactive trainings, bring in local groups Guidance for tree/ forest management Promote guidance for protection/restoration of erodible bluffs, steep slopes, and shorelines

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.	 Collaborate with the Freeport Conservation Trust and other local organizations to inventory open space and identify gaps in habitat connectivity Strengthen Subdivision Ordinance to utilize Open Space plan to prioritize and enforce corridor connectivity
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.	 Create an inventory, planting, and management plan for all Town trees Include a pest management plan to organize response to invasive species
7.1.3	Pursue local, state, and federal funding to achieve the goal of conserving at least 30% of community land by 2030, with an emphasis on collaborating with regional partners to connect preserved land and protect vulnerable ecosystems	 Emphasize collaboration and consider dedicating resources to conservation and land stewardship. Support private easements and support protection of marshes (including migration areas) and other priority areas Permanently protect existing municipal lands





Be Part of the Solution



Consider enrolling your natural or working lands in Maine's current use tax program and/or establishing a conservation easement



Attend a local workshop to learn more about sustainable landscaping



Experiment with ideas for making your lawn more wild, in favor of biodiversity and native plants.

Funding Opportunity Examples

There is federal, state, and local funding available to finance climate action projects that can help Freeport implement this Plan. Below are examples of funding opportunities.

- National Coastal Resilience Fund awards funding to improve environmental resilience and protect coastal wildlife habitats.
- State biennial budget has funds to upgrade municipal culverts at stream crossings.
- The USDA offers a Community Forest and Open Space Conservation Program.





PUBLIC HEALTH & COMMUNITY RESILIENCE

Hazards from a changing climate - such as sea level rise and more frequent and intense storms - will bring challenges across our community. We have an opportunity to protect the people and places of Freeport while fostering a connected, empowered, and just community for all.

A certain degree of impacts from climate change are unavoidable due to the amount of pollutants already in the atmosphere. As we reduce emissions to avoid the most dire consequences, we will need to take action to ensure our community is prepared to thrive with the impacts we're projected to experience.

As temperatures and precipitation patterns change, there will be more direct health risks of tick-borne illness, poor air quality, extreme heat, and more indirect impacts to livelihoods, financial security, and wellbeing. Not everyone in the community will experience these impacts the same way - people who are already facing challenges, like seniors living alone or low-income families, might have a harder time dealing with issues caused by climate change, such as economic disruptions, storm damage to their home, or rising energy costs from AC needed to stay cool during hotter summers.

To keep our community safe and healthy, we need to protect the important services, infrastructure, and resources we rely on and prepare for increasing needs. In doing this, we aim to make sure that everyone can get the help they need during emergencies and that our community is strong and able to handle both short-term interruptions and longer-term disruptions.



BY THE NUMBERS

Over

20%

of Freeport adults who are older than 65 live alone.

23%

of total households are <u>cost burdened</u> - 16% of homeowners and 46% of renters.

Freeport can expect up to

30

more days each year of high heat (over 90 degrees) by 2050.

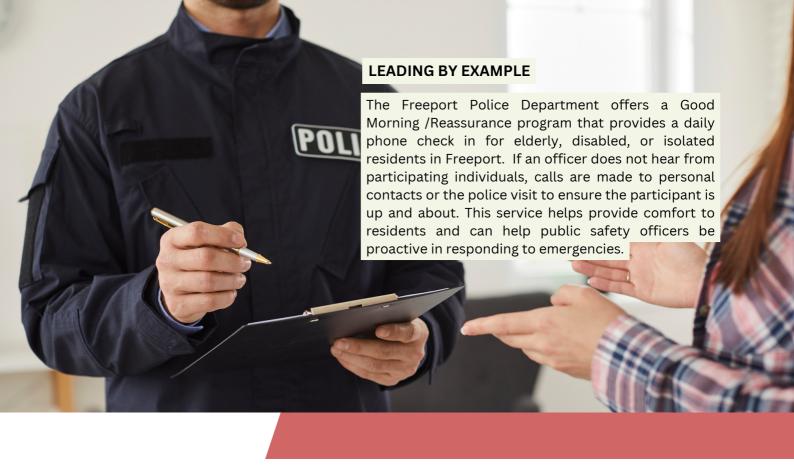


Action Table

The Freeport Climate Action Plan establishes the following goals, strategies, and actions for Public Health and Community Resilience.

	8.1: Prepare town services and resources for public health and as exacerbated by climate change	Implementation Considerations
8.1.1	Develop a heat wave management plan to prioritize strategies and develop protocols to reduce community vulnerability during heat waves.	 Plan to include cooling centers and cooling features outdoors Standard operating procedures Enhancing early warning signals
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.	Including revisions to evacuation routes/plans
8.1.4	Create a 'community atlas' resource library for residents including resilience resources, adaptation tools, and public safety and health/emergency management information.	Education and broad community engagement on existing resources
8.1.5	Develop neighborhood emergency networks or 'resilience hubs' to distribute information and organize resources during emergencies.	Model CERT program- identify these individuals with Town credentials such as through a citizen academy
9.1.1	Adopt policies that help preserve existing agriculture operations and promote programs that facilitate new food production and fill gaps in distribution to residents in need.	 Identify local food and aquaculture networks as an economic development priority (TIF policy) Increase year-round community gardens infrastructure
9.1.1	operations and promote programs that facilitate new food	
9.1.2	Expand fertilizer and pesticide ordinances to reduce runoff pollution.	Emphasize incentives, guidance, and resources available
9.1.3	Enhance the protection of groundwater in zoning.	
rategy 9	9.2: Ensure public and private infrastructure is resilient to sea le	vel rise and flooding
9.2.1	Use the Vulnerability Assessment to prioritize investments for at-risk public works infrastructure and incorporate climate projections into future infrastructure assessment and projects.	leadership (Town, quasi-public entities.) to determine coordinated steps needed for critical asset protection.
9.2.1	Use the Vulnerability Assessment to prioritize investments for at-risk public works infrastructure and incorporate climate projections into future infrastructure assessment	 coordinated steps needed for critical asset protection. Proactively plan to replace storm drains, culverts, and catch basins to avoid disasters Require all critical infra. projects to mitigate existing and potential future impacts of flooding and erosion. Ensure that culverts are properly sized (CoastWise +





Be Part of the Solution



211 Maine helps connect you to the resources you need. Find health, financial, and education services via phone, text, or by searching the online directory.



Learn more about how climate change impacts health and wellbeing



<u>Learn more and sign up for</u> <u>the Reassurance Program</u>

Funding Opportunity Examples

There is federal, state, and local funding available to finance climate action projects that can help Freeport implement this Plan. Below are examples of funding opportunities.

- FEMA BRIC and Hazard Mitigation Grants for projects that reduce risks from disasters
- Shore and Harbor Planning Grants for resilient waterfront infrastructure
- Coastal Community Grants for coastal resilience and marine economy
- Maine Infrastructure Adaptation Fund to adapt critical infrastructure to reduce vulnerability to climate change



MOVING FORWARD

This Climate Action Plan will be a dynamic, living document that will evolve with Freeport.

To successfully accomplish strategies and actions outlined in this Plan, Town staff, stakeholders, and the wider community will need to actively champion its implementation. This Plan is not meant to sit on a shelf, but will be integrated into annual work plans, capital budgets, decision-making processes, and regional collaborations.

This Climate Action Plan is a framework for the Town to implement, refine, and update over the years. As technology, funding opportunities, and community priorities evolve, this plan should be revisited and adjusted to meet the needs of the community and the capacity of municipal resources.





Dedicate staff and resources to oversee existing and future climate programs, implement a comprehensive public outreach on climate-related topics, integrate within regional partnerships, pursue grant funding, and be a point of contact for community members and stakeholders.

Amend FSAB's charter to include an ongoing responsibility of collaborating to implement the Climate Action Plan and leading future updates to the Plan.



TRACK AND SHARE PROGRESS

Track progress annually on key metrics, presented to Town Council in time to inform the following year's budget cycle.

Conduct a deeper review of the plan every three years in order to increase attention to areas that are falling short. Strategies and actions will be revised where context or technology has changed in order to strengthen the plan's ability to guide the Town Council toward meeting the 2030, 2040, and 2050 targets.



Build on Freeport's Brand as a Sustainable Community

Lean into a strong sustainability 'brand' for Freeport, in partnership with the business community, as a sustainable town and destination. Consistent, comprehensive, and accessible messaging and campaigns integrated across municipal and private spaces will build public trust and civic engagement, attract green business and tourism activity, and support community action to achieve our goals.





MAXIMIZE COLLABORATION

The roles for accomplishing actions in this Plan span across Town departments, resident volunteer committees, and external organizations. Consistent and proactive collaboration among internal and external stakeholders will be necessary for success.

ENSURE A FINANCIALLY RESPONSIBLE APPROACH

The Town is mindful of the fact that implementing this Plan will require some amount of funding. To meet our 2030 target and longer-term goals, we will need to make consistent progress, be adaptable to new solutions as they arise, and maximize external funding sources. Dedicating a resource or position to pursue grant opportunities can facilitate success. To ensure that the Town continues to be a responsible steward of taxpayer dollars, the Town will:

Employ a strategic approach to implement actions along a timeline that is both technologically and economically feasible;

Leverage maintenance as an opportunity to enhance efficiency, resilience, and sustainability of municipal buildings, vehicles, and infrastructure;

Explore available funding opportunities at state and federal levels to do this work.



BUILD CAPACITY WITH RESOURCES AND EDUCATION

The full implementation of this Plan is contingent upon the support of Freeport residents and businesses. Certain actions will necessitate that our community adopts new behaviors and adjusts to new policies, which may impact their daily lives. The Town recognizes the challenges that these transitions may present and is dedicated to empowering our community with the necessary education and resources to make this process smoother. Outreach should be comprehensive, consistent, and accessible. It should highlight local successes and the benefits from taking action, prioritize the connection across topics, and point to valuable resources and funding opportunities.



ALIGN WITH STATE AND REGIONAL EFFORTS

The Town should continue integrating projects and policies to support regional and state priorities and rely on updated data, assessment, and analysis by the state, including work of the Maine Climate Council (MCC).

In 2024, the MCC is beginning work to update Maine Won't Wait - **Maine's Climate Action Plan**.

Freeport will continue to track updates in the State's plan to evaluate how they interact with this Plan.



Center Equity and Inclusion in Implementation

As core values of the Town and this Plan, Equity and Inclusion will be prioritized throughout implementation to strive for a <u>just transition</u>. This means action implementation will be guided by an equity assessment, and will employ inclusive processes to identify ways in which community members may be impacted and that promote solutions that provide multiple benefits, with a focus on reducing inequities.



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
MTCO2e from on-road vehicles by class	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
Vehicle miles traveled (VMT) by fuel type	123,194,163 VMT gasoline 13,940,686 VMT diesel~0 VMT electric (2019)	60 million VMT gasoline12 million VMT diesel67 million VMT electric	12 gasoline10 ~ 0 VMT gasoline8 MT million VMT illion diesel103 million VMT electric		GHG Inventory Update
Vehicle Miles Traveled (VMT) per person	16,250 VMT/Person (2019)	Achieve and m	naintain 10% reduc person	tion in VMT per	GHG InventoryUpdate
# of public EV charging ports	8 Level 2 ports, 0 DC Fast, 8 Tesla Superchargers (2022)		sing trend with foc renters and low-ir		Plugshare, or other public database
% of vehicles registered in Freeport that are electric (plug in)	2.4%N =108 BEVs and 101 PHEVs registered (2022)	30%	30% 80% 90%		Annual Electric Vehicle Data, Vehicle Populations by Town, Maine DEP
% of municipal fleet that is electric	0% (2023)		lacement as fleet tired (as market ws).	Town Manager	
% of total housing stock located within 1/4 mile of transit	New Metric	50%	80%	100%	GIS (Town or GPCOG)
Miles of bicycle lanes/paths	New Metric	Increasing tre	end, milestones to	be established	Planning Department
Emissions (MTCO2e) from residential and commercial buildings	25,695 MTCO2e residential21,612 MTCO2e commercial(2019)	14,854 MTCO2e residential5,984 MTCO2e commercial	7,121 MTCO2e residential1,721 MTCO2e commercial	~500 MTCO2e residential~0 MTCO2e commercial	GHG Inventory Update
Heat pump permits issued per year for installation in residential and commercial buildings	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 20501,425 total new commercial installs by 2050	Codes Department permitting information
% of municipal buildings that are heated with renewable energy ¹⁵	0% (2023)	Target to be determined.	80% ¹⁶	100%	Department of Public Works
% of municipal electricity from renewable energy sources	_ (2023)	100%	100%	100%	

¹⁵ 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.

¹⁶ Aligns with <u>Federal Sustainability Plan</u> to achieve net zero emissions 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)	Stal	ble or decreasing t	GHG Inventory Update	
% diversion rate	33.7% (2019)	40%	50%	70%	Town Engineer/Recycling Center
% of permanently protected land	14% of land is conserved	30%		r adjust based on targets	Maine Conserved Land GIS Map
Tree canopy coverage					
% of residents within 10-minute walk of a park	New Metric				GIS (Town or GPCOG)
% of critical infrastructure at high risk	New Metric	Decreasing t	rend, as close to C)% 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 trips taken on public transit per year
- Tons of waste generated by sector
- Number of fully electric buildings
- Reported Building Energy Use Intensity (EUI)

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





A **micro-grid** is a self-contained electrical network that allows you to generate electricity on-site and use it when you need it most, like when the grid goes down or prices peak.

Adaptation is the process of adjusting to or preparing for changing conditions to reduce the vulnerability of impacted assets.

Carbon sequestration is a natural or artificial process by which carbon dioxide is removed from the atmosphere and held in solid or liquid form, which serves to help slow the pace of global warming.

Circular economy is a system where the natural environment is regenerated by ensuring that human-made materials never become waste by keeping materials and products in circulation through processes like reuse, refurbishment, maintenance, remanufacture, and composting.

Climate-related hazards are a physical process or event, exacerbated by climate change, that can bring harm to people, communities, or ecosystems.

Climate-related impacts refer to the potential effect a climate hazard can have on human or natural assets and systems.

Climate-related risk refers to the potential for negative consequences where something of value is at stake. In the context of the assessment of climate impacts, risk can be assessed by multiplying the probability of a hazard by the magnitude of the negative consequence or loss.

Climate-related shock refers to acute events occurring over a specific period of time, such as heatwaves or dangerous weather events, made more severe or frequent by climate change.

Climate-related stressors refer to a chronic condition or trend related to climate change that can exacerbate pre-existing hazards.

Cost burdened refers to spending more than 30% of income on housing.

Electrification is the process of powering by electricity and, in many contexts, the introduction of such power by changing over from an earlier power source.

Equity is impartiality, fairness, and justice for all people in social policy. Social equity takes into account systemic inequalities to ensure everyone in a community has access to the same opportunities and outcomes. Equity of all kinds acknowledges that inequalities exist and works to eliminate them.

Fossil fuels are energy resources formed from the remains of ancient plants and animals, such as coal, oil, and natural gas, which are extracted for human use. When combusted to create energy, they emit greenhouse gas emissions.

Green infrastructure refers to interventions that rely on natural solutions (trees, ponds, etc.) to absorb stormwater and reduce the impacts of flooding.

Just transition is a concept that refers to meeting climate goals by ensuring the whole of society – all communities, all workers, all social groups – are brought along in the pivot to a net-zero future.

Land conservation refers to setting aside parcels of land for permanent protection through fee acquisition or a conservation easement, a binding legal agreement with accompanying tax benefits that protects natural resources.

Linear economy refers to our current economic model in which finite resources are extracted to make products that are used and then thrown away.

Marsh migration refers to the process of marshes gradually shifting inland to formerly dry land due to rising sea levels. Sea level rise threatens to drown tidal marshes, and adjacent development can inhibit natural migration.

Metric tons of carbon dioxide equivalent (MTCO2e) is the standard measurement for greenhouse gas emissions (GHGs). The tonnage of other GHGs (e.g., methane, nitrous oxide) is adjusted to the equivalent tonnage of carbon dioxide necessary to produce the same warming effect, so everything is reported in the same units.

Mobility refers to the ability to move easily from one place to another, typically describing the degree of freedom in movement around places. Active mobility refers to any form of transportation that involves physical activity, such as walking or biking.

Net Zero is when the greenhouse gases going into the atmosphere are balanced by reduction and removal from the atmosphere.

Renewable energy is energy from a source that is not depleted when used, such as wind or solar power.

Resilience refers to the capacity of communities or natural environments to adapt and/or recover quickly from impacts.

Retrofit refers to adding a component or accessory to something that did not have it when manufactured. For example, putting in additional insulation to improve the energy efficiency of a house.

Snowpack is the seasonal accumulation of snow in mountainous areas, supporting winter recreation and providing a crucial water source as it melts.

Social vulnerability refers to factors that may weaken a community or individual's ability to adapt to or recover from a disaster. Factors like age, financial stability, social networks, and access to resources could make it more difficult to be resilient.

Stewardship focuses on preserving the health of our ecosystem through measures such as protecting wildlife corridors, removing invasive species, and preventing water and soil contamination.

Vehicle Miles Traveled (VMT) is the total distance covered by all vehicles in a specific area over a set time. This measurement helps assess our reliance on vehicles to get around.

Vulnerability is the measure of risk to a threat, incorporating the likelihood of the threat occurring and the severity of the impact if it occurs.

Weatherization projects reduce the amount of heat lost from a building by updating the building's infrastructure, such as adding insulation or updating windows. Retaining heat for longer can save money and energy.

Implementation Table

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Benefits:

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

Equity

Affordability +
Economic Vitality

Emissions Reduction

Complete-by Timeframe: Short (2024-2026) Medium/med (2027-2030) Long (2030-2050) Relative Cost: \$ - \$\$\$ indicates level of estimated municipal capital required to implement the action Roles: Primary lead entity (P) and support entity (S)

Economic Vitality

Community Resilience

Healthy
Environment

		Benefits	Timeframe	Roles	Cost	Implementation Considerations		
Goal	Goal 1: Freeport is an EV-ready and friendly community							
Strate	Strategy 1.1: Accelerate EV adoption among Freeport residents, businesses, schools, and municipal departments							
1.1.1	Amend the Town's Zoning Ordinance to integrate EV charging and readiness requirements for new development and redevelopment.	•	Short	FSAB (P) Planning (S)	-	Consider standards for different lot type/use Consider prioritizing higher % of readiness VS installed Bike parking/trees complementary policy		
1.1.2	Establish a comprehensive EV outreach and education campaign for residents and facilitate the expansion of public charging network with businesses.	•	Short	FSAB (P)	\$	Facilitate and support the expansion of regional EV charging network with businesses Pursue funding to install public EV charging stations at municipal facilities Continue rebates through Electrify Everything Signage/map for public chargers		
1.1.3	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 and strategically install chargers to accommodate an all-electric fleet.	•	Medium	Town Manager (P)	\$\$	Monitor funding for medium and heavy duty electric vehicle pilot programs Align with State/Federal EV goals First responder training for EV accidents		
Goal	2: It is easy and safe for residents, workers, and	/isitors	to get arou	und without	a car			
Strate	egy 2.1: Expand infrastructure to support accessible and safe	walking, l	biking and pu	blic transporta	ation us	ie		
2.1.1	Expand and prioritize Complete Streets and non-motorized local and regional trails connecting residential, commercial, and school locations and dedicate funding to leverage State and Federal funding.	•	Medium	Complete Streets (P) Planning (S)	\$\$\$	Prioritize existing project ideas Make one pilot program downtown to demonstrate safe streets Safe Routes to School		
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.		Medium	Planning (P)	\$\$	Last mile options to connect transit stops and neighborhoods/destinations Incorporate diverse mobility needs		
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 Program.	•	Short	FSAB (P) FEDC (S)	-	Use <u>Portland example</u> Support businesses to facilitate public active transportation, such as bike rentals and trail connections to create a niche outdoor economic development opportunity		
Strate	egy 2.2: Amend land use policies to reduce reliance on cars an	d suppor	t vibrant and	resilient neigh	borho	ods		
2.2.1	Update zoning and develop dedicated funding to enable high-density development and mixed use areas in line with Smart Growth principles and transit-oriented development (TOD).		Short	Planning (P)	-	Adjust lot size minimums and support smaller homes and workforce housing. Require sidewalks/mulit-use paths in new development Focus on sustainable development that is affordable Pair with mechanism that preserves distributed open space		
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.		Medium	FSAB (P)	-	As complementary policy with EV readiness requirement		
2.2.3	Amend and expand the current anti-idling ordinance paired with collaborative campaign for enforcing 'no idling zones' in high-idling locations.		Short	FSAB (P)	-			

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Equity Affordability + Economic Vitality

Emissions Reduction

Relative Cost: \$ - \$\$\$ indicates level of estimated municipal capital required to implement the action Roles: Primary lead entity (P) and support entity (S)

Healthy Community Resilience Environment

		Benefit s	Timeframe	Roles	Cost	Implementation Considerations		
Goal	3: Buildings in Freeport are designed, built, and mainta	l ained to	be energy e	fficient and	 minim	l ize greenhouse gas emissions		
Strate	Strategy 3.1: Pursue deep energy efficiency through retrofits and electrification in existing buildings							
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)	\$	Include education on financing Explore financial incentives to encourage community energy memberships for lower income households Consider battery bulk purchasing program Focus on multifamilies and supporting renters, those with less access to resources and information		
3.1.2	Adopt Commercial <u>PACE</u> ordinances and develop supporting outreach to drive participation.	• •	Short	FSAB (P) FEDC (S)	-	Model ordinance available from EMT		
3.1.3	Pilot a benchmarking program with businesses that could phase into an <u>Energy Benchmarking Ordinance</u> for larger commercial, residential, and municipal facilities	•	Medium	FSAB (P) Planning, FEDC (S)	-	Collaborate with large energy-using commercial facilities and multi-family residences to determine feasible energy retrofitting solutions Review guidelines for Design Review and Freeport Village districts to identify potential conflicts with energy-efficiency Emphasize incentives, guidance, and resources available		
3.1.4	Prioritize retrofits for municipal facility upgrades and develop a plan to transition facilities to net zero over time.	•	Medium	Public Works (P)	-	Efficiency Maine funding available Use the priorities identified in the existing energy assessment		
Strate	gy 3.2: Require new development and significant renovations	to minir	nize greenho	use gas emissi	ons.			
3.2.1	Develop phased-in requirements paired with incentives for on-site renewable energy generation and storage, EV-ready, renewably-powered heating in new construction and major renovations.		Medium	Planning (P)	-	Emphasize incentives, guidance, and resources Amend into building code Update TIF development priority to include investing in high performing buildings/renewable energy Provide information and incentives to local contractors to encourage resilient building practices		
Goal 4	: Freeport is powered by local, resilient, renewable energy							
Strate	gy 4.1: Maximize renewable energy generated locally and exp	lore opp	ortunities to	enhance grid r	esilien	ce		
4.1.1	Implement policies and practices necessary to achieve SolSmart certification, or equivalent, for the Town.		Short	Planning (P)	_	Utilize SolSmart resources and technical assistance to amend zoning to reduce barriers to solar		
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	FSAB (P)	-	Partner with Revision to update on best practices Understand forecasted demand of electrifying fleet and facilities Site and construct new Town buildings to enable and include solar arrays		
4.1.3	Require all new large developments (commercial, residential, or municipal) to evaluate feasibility of district energy or microgrids powered by renewable energy.	•	Medium	Planning (P) Codes (S)	-	Create resources to support this, such as a qualified list of vendors Emphasize incentives, guidance, and resources available Determine building threshold for requirement		
4.1.4	Evaluate feasibility for large-scale community solar projects.		Short	FSAB (P)	\$	Work with expert consultant to identify solar generation opportunities and 3-phase connections		
4.1.5	Develop and implement a Resilient Power Plan to ensure critical facilities have power during emergencies, such as winter storms.		Short	Town Manager (P) Fire, Police (S)	\$\$	Batteries at critical facilities Incorporate public-private partnerships for microgrids and distributed energy Integrate electrical infrastructure capacity in planned CIP projects		

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Equity

Affordability +
Economic Vitality

Community Resilience

Emissions Reduction

Healthy

Environment

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		Benefits	Timeframe	Roles	Cost	Implementation Considerations			
Goal	Goal 5: Freeport residents and businesses prioritize using resources efficiently								
Strate	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.	•	Short	FSAB (P)	-	Focus on packaging Identify solutions for reporting and enforcement. Emphasize incentives, guidance, and resources available for businesses to phase out single-use waste items faster			
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 (S)	_	Partner with downtown organizations to reach visitors Encourage circular innovation and reuse businesses in town Consider promoting models for food recovery such as Too Good to Go			
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.	•	Medium	FSAB (P) Public Works (S)	-	Valuable for leading by example, potentially lowering operating costs			
5.1.4	Develop an ordinance for all multi-family residences, commercial establishments, and schools that phases in mandatory recycling and composting.	•	short	FSAB (P) Planning (S)	-	Emphasize incentives, guidance, and resources available Engage stakeholders to understand barriers Expand public compost drop off sites, seek partners to expand private curbside composting access			
5.1.5	Adopt a construction and demolition waste recycling and reuse ordinance.	•	Short	FSAB (P) Codes (S)	-	Require C&D reduction/recycling plans for permits over X sf Provide contractors with resources for reuse Explore coordination with historical preservation for adaptive reuse Emphasize incentives, guidance, and resources available			
5.1.6	Develop a library of things that serves as a space to foster opportunities for residents to reuse, repair, and create items and materials		Short	FSAB (P)	\$	Serve as hub for engagement and outreach Partner with Schools for education. Create a distinct brand for Freeport circular economy/recycling that has broad reaching signage			
5.1.7	Develop a network of recycling bins throughout downtown with wayfinding and unique brand.	•	Short	FSAB (P)	\$	Positive behavior change for residents and visitors Partner with businesses			

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Equity

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Affordability +	Reduction
Economic Vitality	Healthy
Community Resilience	Environment

		Benefits	Timeframe	Roles	Cost	Implementation Considerations
Goal	6: Freeport employs stewardship practices that ensur	e the on	going hea	lth and vitali	ty of o	ur shores and waters
Strate	egy 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.	•	Short	FSAB (P) Town Engineer (S)	\$	100 resilient yards as model Interactive trainings, bring in local groups Guidance forTree/ 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 Use Yardscaping program through the Interlocal Stormwater Working Group
6.1.2	Conduct a review of land use ordinances and Capital Improvement Plan (CIP) to maximize the comprehensive implementation of Low Impact Development (LID) best practices.	•	Medium	Town Engineer (P)	-	Road management practices, trees and green islands Coastwise for stream crossings Improve stormwater capture by commissioning an assessment/feasibility study Stormwater management techniques Evaluate how much money the Town spends on dealing with stormwater now and how much it will be required to spend in the future
Goal 7	: Forests, wetlands, and coastal habitats are protected					
	Strategy 7.1: Permanently conserve land with a focus on bio	diversity	and conne	ctivity		
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.	•	Medium	Planning (P)	_	Make digital maps available in a GIS format. Collaborate with the Freeport Conservation Trust and other local organizations to inventory open space and identify gaps in habitat connectivity Strengthen Subdivision Ordinance to utilize Open Space plan to prioritize and enforce corridor connectivity Incorporate data for priority conservation/habitat into Town GIS layers and continue to update and track as part of regular Town mapping and regulation/monitoring
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.	•	Short	Tree Task Force (P)	-	Create an inventory, planting, and management plan for all Town trees Include a pest management plan to organize response to invasive species Create a municipal planting policy that prioritizes native species well-suited for anticipated climate changes, different soil types, and supports pollinators Conduct an audit of municipal landscaping practices and create a plan to use sustainable methods of grounds maintenance
7.1.3	Pursue local, state, and federal funding to achieve the goal of conserving at least 30% of community land by 2030, with an emphasis on collaborating with regional partners to connect preserved land and protect vulnerable ecosystems.	•	Medium	Planning (P)	\$\$	Emphasize collaboration and consider dedicating resources to conservation and land stewardship Monitor permanently conserved lands. Work with land trust and support private easements and support protection of marshes (including migration areas) and other priority areas Easements to protect existing municipal lands. Ensure zoning for compact neighborhoods is balanced with conserving land

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Emissions Reduction Healthy Community Resilience Environment

		Benefit s	Timeframe	Roles	Cost	Implementation Considerations			
Goal	Goal 8: People, services, and infrastructure in Freeport are prepared and resilient to climate change								
Strate	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	Fire and Police (P) Town Manager (S)	-	Plan to include cooling centers and cooling features outdoors and coordinated with increased trees/green landscaping Standard operating procedures for cooling centers and outreach			
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.		short	Town Manager (P)	-	Including revisions to evacuation routes/plans Integrate best practices into EMP Climate Annex and mitigation strategies			
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.		Short	FCS (P)	-	Partner with local health and wellness service providers, including educators, to promote access to resources that address chronic stressors, including mental health services Education and broad community engagement/outreach on existing resources Outreach to support residents have resources to last 3-days			
8.1.4	Develop neighborhood emergency networks or 'resilience hubs' to distribute information and organize resources during emergencies.		Short	FCS (P) Town Manager (S)	\$\$	Yarmouth's COVID network as model Model CERT program- identify these individuals with Town credentials such as citizen academy Make sure any volunteers are engaged - a couple times a year are activated for a drill and brought in for training			
Goal 9	Goal 9: People, services, and infrastructure in Freeport are prepared and resilient to climate change								
	Strategy 9.1: Enhance local food networks and protect groun	ıdwater r	resources						
9.1.1	Adopt policies that help preserve existing agriculture and aquaculture operations and promote programs that facilitate new production and fill gaps in distribution to residents in need.	•	Medium	Planning (S) FEDC (S) FCS (S)	-	Identify local food and aquaculture networks as an economic development priority (TIF policy) 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			
9.1.2	Expand fertilizer and pesticide ordinances to reduce runoff pollution.		Short	FSAB (P)	-	Emphasize incentives, guidance, and resources available			
9.1.3	Enhance the protection of groundwater in zoning.		Short	Planning (P)	-				
Strate	egy 9.2: Ensure public and private infrastructure is resilient to	sea leve	l rise and f	looding					
0.21	Use the Vulnerability Assessment to prioritize investments for at-risk public works infrastructure and incorporate		Short	Town Engineer	-	Link prioritization into CIP and budgeting Conduct review of CAP vulnerability assessment with all leadership (Town, quasi-public entities.) to determine coordinated steps needed for			
9.2.1	climate projections into planning.			(P) Planning (S)		critical asset protection. • Lean on existing org assessment (GMRI, etc)			
	·		Medium	Town Engineer (P) Planning (S)	\$,			
9.2.2	Climate projections into planning. Establish and implement flood prevention measures that exceed the Town's current standards to be eligible for the FEMA Community Rating System program. Assess the needs of the working waterfront, coastal commercial establishments, and public coastal		Medium	Town Engineer	\$	Lean on existing org assessment (GMRI, etc) 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 Assess the vulnerability (current and future) of			