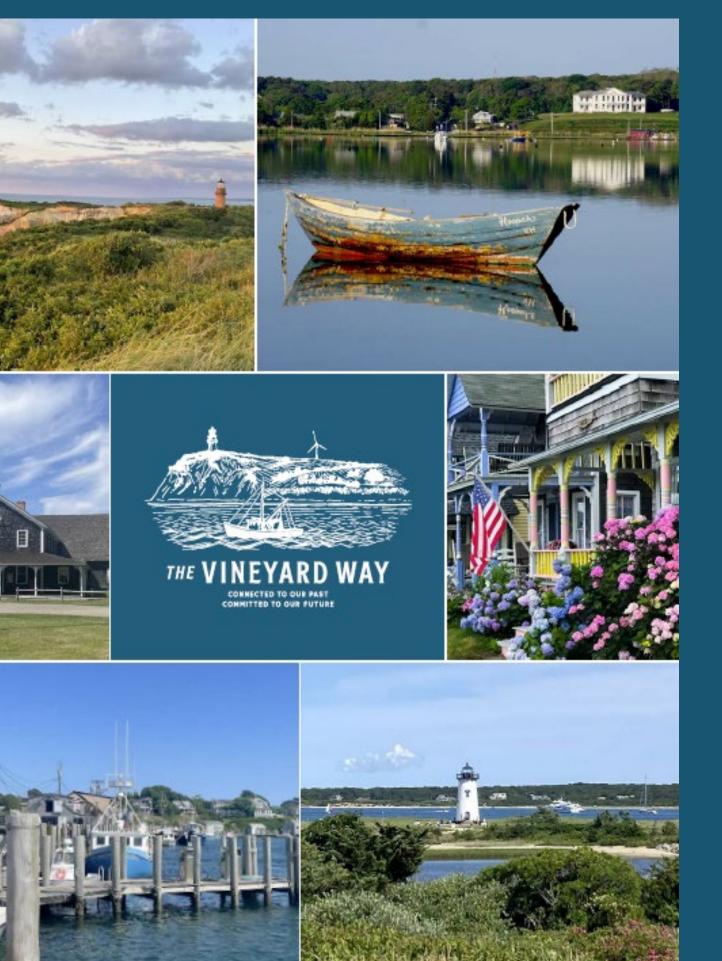
Climate Action Plan THE VINEYARD WAY

CONNECTED TO OUR PAST COMMITTED TO OUR FUTURE

CLIMATE RESILIENCE



October 2021 – August 2022



Climate Action Plan

Today's Objectives:

- Thank you!
- Share the final plan overview
- Discuss town collaboration for implementation



Why Are We Planning for Climate Action?

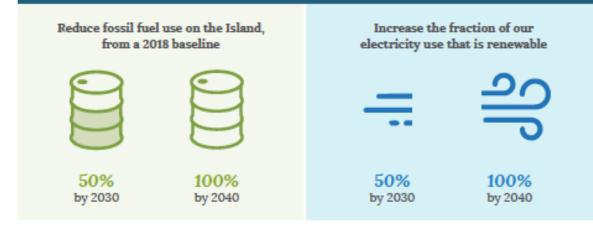
Since the Industrial Revolution human activity is changing our climate through:

- Increased burning of fossil fuels that emit carbon dioxide (CO2) for transportation (e.g., cars, boats, and planes), heating and cooling buildings, and electricity generation.
- Increased methane producing activities including factory farming, landfills, coal mining, oil and natural gas production, and wastewater treatment.

These gasses pollute the atmosphere and are known as "greenhouse gasses" due to their heat-trapping qualities that are causing the Earth to heat much faster than normal patterns. This greenhouse effect is exacerbated by the rapid destruction and loss of natural carbon sinks including wetlands, marshes, and forests, that when healthy can capture and store carbon and other greenhouse gasses.

Like most of the developed world, life on Martha's Vineyard is almost entirely fossil fuel dependent. The cars we drive, the food we eat, the products we buy, the energy we consume, the houses we build, the items we ship, and the ways we travel to and from the Island all rely on fossil fuels.

The Island community is taking steps to reduce its reliance on fossil fuels. As of July 2021, all six towns on Martha's Vineyard and the Martha's Vineyard Commission adopted the following resolutions:



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To measure progress towards these Island-wide goals, it was necessary to first understand our baseline energy use and emissions data for 2018. The MVC Climate Action Task Force (CATF) Energy Working Group completed this baseline assessment, identifying three major categories of "energy use" and "emissions": transportation, building heating and hot water, and electricity.

Energy Use

Converting to a common unit of energy, the CATF estimates that the Island used approximately 945 GWh of energy across the three categories with the following breakdown:



45% Transportation (cars, ferries, planes, boats)



32%

Heating and hot water (oil and propane)





Heating Energy Use Breakdown

Buildings	Million gallons
Fuel Oil	2.49
Propane	7.88

Emissions

The CATF found that the Island emitted approximately 270,000 metric tons (606 million pounds) of CO2 in 2018, equivalent to the emissions of approximately 60,000 cars in one year. Emissions comprise the following figures:



44% Transportation (cars, ferries, planes, boats)



28% Heating and hot water (oil and propane)



28% Electricity

Transportation Energy Use Breakdown

Transportation	Million gallons		
Gasoline	7.23		
Diesel	3.02		
SSA Marine Diesel	146		
MVY Jet Fuel	0.7		
MVY Aviation Gas	0.09		

Plan Overview

- Land Acknowledgement
- Executive Summary
- What Motivates Us
 - MV Climate Emissions Baseline
 - Climate Hazards and Impacts
 - Climate and the Environment 0
 - Climate Equity
- Engaging our Community
- Timeline of Key MV Climate Milestones
- Thematic Group Chapters
- Overarching Goals
- Moving Forward
- Acknowledgements

A Community-Based Process

Pre-Planning Activities

20 listening sessions with 15 stakeholder groups

3 new town Climate Committees formed

6 meetings with Select Boards to introduce the planning process





25 stakeholder group presentations

40 Island newspaper stories and commentaries, magazine stories, and radio reports on climate change issues

19 monthly public events/ presentations (focused on thematic working group



Planning Meetings

thematic working group meetings were held and over 108 participants (including representatives from Towns, the Tribal Community, NGOs, businesses, and students) developed goals, objectives, and actions



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Youth Engagement

- 6 monthly student led climate cafes
- 10 school outreach events
- 64 students submitted art in the Vineyard Conservation Society climate change art contest







Planning Meetings

93

town government board/committee members attended 6 online workshop Planning Meetings

13

participants attended an in-person tribal engagement event



- 7 days with over 40 organizations that hosted events
- 1400 participants attended events
- 90 climate action pledges signed
- 31 electric vehicles (EVs) in the firstever EV Fleet



Thematic Planning Area Sections

- Thematic Area Description and Climate Impacts
- What's Happening Now
- Equity and Questions to Consider
- Goals and Measures of Success
- Objectives, Actions, Leads, Cost, Co-Benefits



Land Use, Natural Resources and, Biodiversity

GOAL #1

By 2040, land use decision-making prioritizes public safety and ecosystem values potentially impacted by climate change.

bjective 1: y 2024, identify and map coastal and inland land vulnerable to flooding, nd vulnerable to extreme wildfire risks, associated ecosystems, and nd suitable for undevelopment that significantly contribute to climate silience and public safety. (Some actions support Overarching Goal 1)	Co-Benefits/ Collaboration:		
Actions	Lead	Due Date	Cost
etion 1.1 I existing, relevant mapping is collected and synthesized.	Martha's Vineyard Commission	2023	0
ction 1.2 equired new mapping is identified, created, and added to the overall rnthesis.	Martha's Vineyard Commission	2023-24	S
ction 1.3 eview maps to identify areas of priority concern related to extreme ooding, wildfire, and contributors to climate resilience.	Martha's Vineyard Commission	2024	0
ction 1.4 ith other working groups, develop a collaborative long-term vision ad land use decision-making framework that builds environmental and scioeconomic resilience.	Martha's Vineyard Commission and all thematic working group reps	2025	SSSS
bjective 2: y 2028, develop tools to protect and enhance prioritized ecosystems that rovide public safety benefits. (Some actions support Overarching Goal 1)	Co-Benefits/ Collaboration:		
Actions	Lead	Due Date	Cost
etion 2.1 omplete pilot Sengekontacket Pond Salt Marsh Migration Study.	OB Planning and Conservation, Martha's Vineyard Commission	2022	S
ction 2.2 esign an education program about the connection between the health of arsh ecosystems, climate resilience, and public safety.	Vineyard Conservation Society	2024	\$\$
ction 2.3 ommission a comprehensive shoreline management plan for future ublic beach and coastal management.	Martha's Vineyard Commission	2025	SSSS
ction 2.4 ssess health and migration potential of Island salt marshes and ID priority lit marshes for restoration.	Martha's Vineyard Commission, Young	2025	SSS



• 15 Goals

- 56 Objectives
- 191 Actions

Lead Organizations/Groups:

Ag Society, C&D Waste Committee, Vineyard Vision Fellowship. Cape Light Compact, Dukes County Emergency Managers Association, Dukes County health sub-committee, local CERT teams, Fire Chiefs, 12, Island Grown Initiative, Island Health Care, Kinship Heals, Morning Glory Farm, MV Center for Education and Training (formerly ACE MV), MV CLC Reps, MV Fishermen's Preservation Trust, MV Shellfish Group, MV Food Waste Initiative Committee, MV Seafood Collaborative, MV Shellfish Group, Cottage City Oysters, MV Tick Program, Martha's Vineyard Commission, MVC Climate Action Task Force, Polly Hill, BiodiversityWorks, President of Health Council, Prospective Emergency Manager, Steamship Authority, Town energy committees, Vineyard Conservation Society, Vineyard Power, Vineyard Sustainable Energy Committee

Town Collaboration: Climate & Energy Committees (on VSEC and CRC)

Land Use, Natural Resources, and Biodiversity

Actions include

- discontinuing or managing development in vulnerable areas (e.g., flood zones);
- preservation of salt marshes for their many community values;
- setting maximum disturbance limits for new development and standards for the use of native plantings; and \bullet
- protecting coastal pond water quality and our drinking water through increased collaboration and enhanced regulations. ightarrow

Town Collaboration for Implementation: Planning Boards, **Conservation Commission**



Transportation, Infrastructure, and Waste

Actions include:

- planning for the protection or relocation of critical vulnerable roads that includes nature-based strategies,
- collaboration with the Steamship \bullet Authority to build resilient port infrastructure.
- assessing and addressing supply chain vulnerabilities, and
- reducing solid waste and increasing self \bullet sufficiency (food & construction waste).

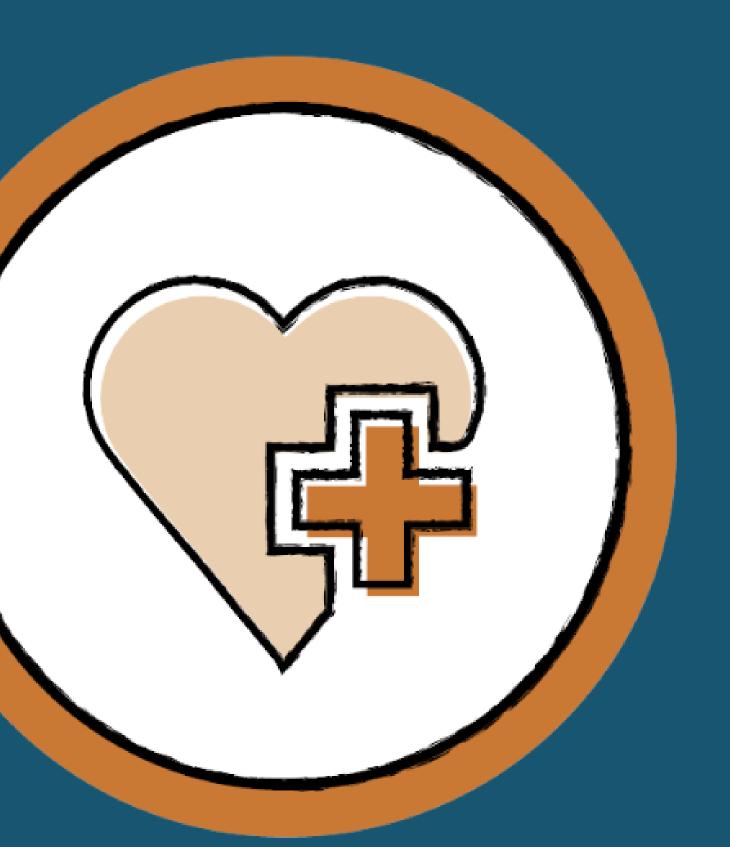
Town Collaboration for Implementation: Department of Public Works, Joint Transportation Committee Representative

Public Health and Safety

Actions include

- bilingual community outreach to the public and health care providers on health-related climate impacts and ways to reduce vulnerability (e.g., heat stress, wildfire, tick borne disease)
- regional database of vulnerable populations
- one or more regional emergency shelters stocked and staffed
- development of an Island-wide emergency preparedness, response and recovery plan; and
- implementation of the regional Community Wildfire Protection Plan.

Town Collaboration for Implementation: First Responders, Board of Health, Town Emergency Managers





Economic Resilience

Actions for a resilient economic future include

- jobs,
- locations)

Town Department Collaboration for Implementation: Finance Committee and Board of Assessors

 assessment of vulnerable businesses and options for new economic conditions (diversifying the economy) training residents for climate-related

assisting the transition of vulnerable businesses (fossil fuel-related businesses and those in at-risk

encouraging businesses to adopt resilient and sustainable practices

Food Security

Actions include

- improving Northeast-based supply chains that minimize risk of disruptions
- developing standards for climate-friendly farming practices;
- increase aquaculture production and local purchase of local seafood
- ensuring that a consistent food supply will be in place for the food insecure and during emergencies;
- increasing access to lands for the Indigenous community;
- increased aquaculture production; and support for careers in commercial fishing.

Town Collaboration for Implementation: Shellfish Constable, Zoning Board





Energy Transformation

Actions include:

- of electric vehicles, and solar energy; increase participation for energy transition assistance to low-and-moderate income residents. microgrids and battery storage at critical facilities (working with emergency management); advocacy for the transition of ferries to electric

- increasing efficient electric home heating, the use 0 \bullet \bullet power;
- collaboration with Eversource for sufficient electric \bullet grid capacity
- towns develop plan for energy resilience with Island \bullet wide guidance
- Aid in implementation of stretch code with outreach \bullet and training

Town Collaboration for Implementation: Building Department/ Inspectors, Select Boards, Planning Boards



How this plan helps you:

- (that help us all)

- planning (e.g., Master Planning)

How you can help with this plan:

- specific actions
- needs

• Grant agencies look favorable on regional projects

• One plan goal is to find sustainable funding Access more technical resources and expertise that support town initiatives and public awareness • Collaboration on specific topics can reduce town staff workloads (e.g., updating floodplain bylaws)
Blueprint for island climate resilience that includes specific "town actions" that can be used for town

• Encourage and support your town staff and boards members to engage in regional collaboration on

• Encourage your finance committee to begin considerations for town and regional climate funding

THANK YOU FOR YOUR TIME & SUPPORT!

Please download the plan and keep checking back on our progress at: www.vineyardway.org

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