

# Climate Action Plan



STAKEHOLDER WORKING GROUP  
ENERGY - 11/18/2020

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# MEETING AGENDA

## Objectives

- Recap Meeting 1 and progress to date
- Review and confirm criteria for use in selecting potential strategies and actions
- Evaluate potential strategies and actions to include in the Cape Climate Action Plan

**9:00** Welcome and Introductions

**9:10** Recap and Reflect on the Process to Date

**9:20** Review and Confirm Criteria

**9:40** Review and Discuss Climate Action Plan Strategies and Actions for the Energy Sector

**Small Group**

**10:30** Break

**Small Group**

**11:20** Discuss Conservation Actions in the Plan

**11:50** Public Comment & Next Steps

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# MEETING GROUND RULES

- Attend all meetings and participate actively in discussions.
- Come prepared having read any draft materials in advance of our meetings and having responded to any facilitator's requests (e.g. surveys providing input on materials in advance of meetings).
- Engage in respectful and constructive dialogue with other participants and seek creative solutions that respond to the interests of your own, as well as others', viewpoints.
- Represent and articulate the diverse range of interests and concerns of the constituencies you represent.
- Seek input from constituents, friends and neighbors, and keep them informed about the discussions and proceedings of the meetings.

A photograph of a marsh landscape with tall, green grasses and a small body of water. The scene is captured in a soft, golden light, likely during sunrise or sunset. The grasses are dense and reach up to the water level. The water is calm and reflects the surrounding greenery and the warm light of the sky.

# Cape Cod Climate Action Plan



Recap and Reflect on the  
Process to Date



# Cape Cod Climate Action Plan

## PURPOSE STATEMENT

- To identify, study and monitor the causes and consequences of climate change on Cape Cod as a basis to guide and develop science-based policies, strategies and actions that governments, businesses, organizations, and individuals can pursue to:
  - improve the region's resilience to climate hazards; and
  - mitigate climate change on Cape Cod through reducing net regional greenhouse gas emissions in support of the framework and targets established by the Commonwealth.





# Cape Cod Climate Action Plan



FALL

Subregional  
Municipal  
Working  
Groups



Stakeholder  
Working  
Group  
#1



Focus Group  
#1



Stakeholder  
Working  
Groups  
#2 and #3

Focus Group  
#2

WINTER



# Cape Cod Climate Action Plan

## FOCUS GROUPS

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Association to Preserve Cape Cod

Barnstable Clean Water Coalition

Cape Cod Chamber of Commerce

Cape Cod Climate Change Collaborative

Cape Cod & Islands Association of Realtors

Community Development Partnership

Compact of Conservation Trusts

Housing Assistance Corporation

## MEETING 1 OBJECTIVES

- Introduce the Climate Action Plan process
- Provide an overview of a range of possible climate strategies, drawn from previous reflections, recent stakeholder meetings and the broader literature review completed
- Identify organizational or network priority issues and actions in the realms of climate adaptation and mitigation
- Reflect on existing organizational and network capacities to act on these priorities and possible support or needs for enhancing action





# Working Group Meeting Series

## MEETING 1

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OCTOBER

Understanding  
Problems



## MEETING 2

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NOVEMBER

Identifying  
Solutions

## MEETING 3

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DECEMBER

Taking  
Action

# STAKEHOLDER WORKING GROUP

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## Meeting 1 Recap

Discuss what is known today about sector contributions to greenhouse gasses and vulnerabilities to future climate impacts

Develop criteria for use in selecting among potential strategies and actions

## ADAPTATION

- Need for affordable housing is an opportunity; development and redevelopment of housing should be in areas away from hazards and include energy efficiency measures and other climate-forward building methods
- There is an important intersection between local food production, land use, and energy
- Grid reliability is a concern and consideration should be given to a more dispersed structure

## MITIGATION

- Responsibility is more personal in this area and changes to individual building energy use must be supported by local and state action; education is needed to adjust expectations and assumptions around reducing energy use
- There is an opportunity to make the Cape more walkable by increasing density in activity centers
- Consider alternatives in home heating

# QUESTIONS



# DISCUSSION

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# Cape Cod Climate Action Plan



Review and Confirm Criteria

# CRITERIA FOR PRIORITIZING ACTIONS

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*Compiled from the  
feedback of all four  
Stakeholder Groups*

## **Feasibility**

- Science-based and data-driven actions
- Responsive to context
- Clarity/ease of implementation pathway

## **Impact**

- Efficiency/effectiveness of action
- Achievement of multiple public benefits
- Planning for future conditions
- Ability to adapt to changing conditions
- Measurability

## **Cost**

- Affordability
- Funding source

## **Equity**

- Meeting the needs of all citizens
- Providing for vulnerable populations
- Who pays?

# QUESTIONS



# DISCUSSION

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# Cape Cod Climate Action Plan

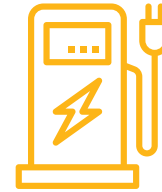


Review and Discuss Climate  
Action Plan Strategies and  
Actions



## **ADAPTATION**

Adjustments in human and natural systems that moderate harm or take advantage of beneficial opportunities



## **MITIGATION**

Limiting or preventing greenhouse gas emissions and enhancing activities that remove these gases from the atmosphere



5  
FOCUS  
AREAS

14  
GOALS

44  
STRATEGIES

131  
ACTIONS

Literature  
Review



Cape Cod Climate Change  
Collaborative



Stakeholder  
Input

**Sector: Natural Resources and Working Lands**



*Support and promote protection, preservation, and restoration of natural ecosystems*



*Support and promote protection, preservation, and restoration of wetland and riparian areas*



*Protect, restore, and enhance freshwater wetlands, including ponds and lakes*



*Protect/restore vegetation around ponds*





# Energy

1

GOAL

4

STRATEGIES

11

ACTIONS

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# ENERGY

Goals

Strategies

**GOAL: Increase the production and use of clean local energy**

**Strategies:**

- Generate cleaner energy and greener power
- Modernize and optimize the grid
- Identify and utilize carbon offsets
- Achieve Green Communities designation in all Cape towns

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# COMMUNITY

## Goals

## Strategies

**GOAL: Improve broad public knowledge and understanding of climate change impacts and programs**

**Strategies:**

- Increase education and communications about climate change mitigation options
- Increase education and communications about climate change adaptation options

**GOAL: Accelerate adoption of emissions reduction strategies and actions across regional and local governments**

**Strategies:**

- Where suitable, identify and adopt regional goals and policies that help advance mitigation strategies and actions
- Create mandates for municipal mitigation actions
- Increase capacity within municipal staffs; provide outside technical assistance

**GOAL: Increase data collection and access**

**Strategies:**

- Identify more granular, town-specific data of GHG emissions

**GOAL: Ensure the health, safety, and equitability of mitigation and adaptation solutions**

**Strategies:**

- Assess opportunities for green economy to create jobs with livable wages

**GOAL: Establish strategic partnerships to advance shared goals**

**Strategies:**

- Foster collaborations between levels of government
- foster collaborations between the public and private sectors

## 2 SMALL GROUPS

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**Breakout 1: renewable/cleaner energy,  
including solar – blue**

**Breakout 2: Infrastructure including EV  
charging, batteries and storage – orange**

## HIGHLIGHTED ACTIONS

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**Renewable/cleaner energy, including solar**

Infrastructure including EV charging,  
batteries and storage

## GOAL

Increase the production and use of clean local energy

## STRATEGY

Generate Cleaner Energy and Greener Power

## ACTIONS

- Facilitate renewable energy investment\*
- **Use clean energy sources in municipal operations\*** (4/9)
- **Identify new fuel sources** (4/9)
- **Encourage community solar and solar car ports that limit new clearing and loss of sequestered carbon\*** (7/9)
- Decarbonize industrial processes
- **Identify affordable renewable energy sources** (7/9)
- **Explore potential offshore wind tech jobs, operations center on-Cape** (4/9)

## STRATEGY

Modernize and Optimize the Grid

## ACTIONS

- Support expansion of EV charging network\*
- Support development of storage capability/battery technology\*
- Understand potential demand and capacity needs and plan for grid upgrades



# BREAK



## HIGHLIGHTED ACTIONS

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Renewable/cleaner energy, including solar

**Infrastructure including EV charging,  
batteries and storage**

## GOAL

Increase the production and use of clean local energy

## STRATEGY

Generate Cleaner Energy and Greener Power

## ACTIONS

- Facilitate renewable energy investment\*
- Use clean energy sources in municipal operations\*
- Identify new fuel sources
- Encourage community solar and solar car ports that limit new clearing and loss of sequestered carbon\*
- Decarbonize industrial processes
- Identify affordable renewable energy sources
- Explore potential offshore wind tech jobs, operations center on-Cape

## STRATEGY

Modernize and Optimize the Grid

## ACTIONS

- **Support expansion of EV charging network\*** (7/8)
- **Support development of storage capability/battery technology\*** (4/8)
- **Understand potential demand and capacity needs and plan for grid upgrades** (5/8)

## HIGHLIGHTED ACTIONS

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**Energy conservation** (identified as missing)

## GOAL

Reduce GHG emissions from the built environment

## STRATEGY

Strive towards Net Zero Energy Buildings; reduce energy consumption in non-residential structures

## ACTIONS

- Ensure new commercial, industrial, and publicly funded construction is built to maximize energy efficiency\*
- Retrofit existing commercial, industrial, municipal and other public buildings\*
- Expand the *Solarize Our Town* program to all Cape communities\*
- Accelerate the decarbonization of industrial uses and processes\*

## STRATEGY

Strive towards Net Zero Energy Buildings; reduce energy consumption in residential buildings

## ACTIONS

- Retrofit existing residential buildings/houses\*
- Support Home Energy Scorecards
- Ensure new residential construction is built to maximize efficiency

## **GOAL**

Reduce GHG emissions from the built environment (cont.)

## **STRATEGY**

Promote efficient land use policies that protect the nature and character of the region

## **ACTIONS**

- Advance sound land use policies within the RPP that promote development within activity centers and reduce sprawl, encourage and reward re-development and discourage new clearing of forested lands

# QUESTIONS



# DISCUSSION

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# Cape Cod Climate Action Plan



Public Comment



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# Cape Cod Climate Action Plan



Next Steps



# Cape Cod Climate Action Plan



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#1



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Stakeholder  
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WINTER



# Cape Cod Climate Action Plan

## Student Climate Ambassador Program



The Cape Cod region is working hard to prepare for climate change and student voices matter. Student Climate Ambassador Program seeks students in grades 9-12 who want to develop a better understanding of climate change, learn what actions can be taken individually and collectively, and prepare to be a community leader.

**6**

**Meetings**

DEC - MARCH

**Topics include** global climate issues, greenhouse gas reduction strategies, adaptation and resiliency planning, equity and climate change, communication...

**1**

**Small Project**

Showing how school communities can take action and impact climate

## Student Climate Ambassador Program



The Cape Cod region is working hard to prepare for climate change and student voices matter. Student Climate Ambassador Program seeks students in grades 9-12 who want to develop a better understanding of climate change, learn what actions can be taken individually and collectively, and prepare to be a community leader.

## Applications and Selection

- One-page letter of interest and teacher's reference
- Applications Due by December 1st
- Program is intended for a small group of students from grades 9-12.
- Selection will be based on regional geographical distribution, grade level distribution, quality of letter of interest, and teacher reference

ARE YOU CURIOUS ABOUT WHAT'S HAPPENING IN YOUR COMMUNITY TO ADDRESS CLIMATE ISSUES?

ARE YOU CONCERNED ABOUT CLIMATE CHANGE OR WOULD YOU LIKE TO LEARN MORE ABOUT IT?

DO YOU WANT TO LEARN HOW TO EFFECTIVELY CREATE CHANGE AND MAKE A DIFFERENCE?

## Become A Climate Ambassador

The Cape Cod region is working hard to prepare for climate change and student voices matter! The Cape Cod Commission is seeking students in grades 9-12 who want to develop a better understanding of climate change, learn what actions can be taken individually and collectively, and prepare to be a community leader.

LEARN MORE >>

## THE CAPE COD COMMISSION IS SEEKING STUDENT VOICES FOR THE CLIMATE AMBASSADOR PROGRAM

### What to Expect

- ≈ Six virtual meetings from December 2020 to March 2021
- ≈ Meetings will run between 2 and 2 ½ hours
- ≈ Discuss and learn about global climate issues, carbon reduction strategies, resiliency planning, equity and climate change, and more
- ≈ Get creative by developing a small project on how school communities can impact climate
- ≈ Meet new friends, make a difference and raise awareness of climate issues!

### How to Apply ( Applications due by December 1st)

Please submit a one-page letter to [frontdesk@capedcodcommission.org](mailto:frontdesk@capedcodcommission.org) and let us know why you're interested in climate change and what you hope to learn or accomplish by being part of the Climate Ambassador Program. Submissions must also include a teacher reference.

**ABOUT:** The Climate Ambassador program is intended for a small group of students from grades 9-12. Selection will be based on regional geographical distribution, grade level distribution, quality of letter of interest, and teacher reference.

**CLIMATE HAZARDS**  
*put vulnerable populations at risk, can cause loss of life, damage important infrastructure, and impact a community's economic, social, and environmental well-being*

**A 4°C TEMPERATURE RISE**  
*can lead to disrupting precipitation patterns and increased frequency and intensity of some extreme weather events*

# Climate Action Plan



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