

# Climate Action Plan



STAKEHOLDER WORKING GROUP  
TRANSPORTATION - 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

- 1:00** Welcome and Introductions
- 1:10** Recap and Reflect on the Process to Date
- 1:20** Review and Confirm Criteria
- 1:40** Review and Discuss Climate Action Plan Strategies and Actions
- 1:50** **Small Groups** - Strengthening Alternatives to Driving
- 2:30** **Break**
- 2:40** **Small Groups** - Electrification
- 3:20** **Full Group Discussion**
- 3:50** **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.



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# 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

- Who's going to bear the costs?
- Communicating the cost of doing nothing
- Need public to understand impacts and need for funding roadway improvements

## MITIGATION

- Working to provide the most efficient transit
- Costs related to electric vehicles adoption is still high initially even if they are cost-effective in the long run
- Electrifying fleet vehicles, including transit vehicles, is a part of the solution but comes with unique challenges

The importance of education and outreach was also highlighted both at the government and individual levels.

# 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*





# Transportation

2

GOALS

7

STRATEGIES

30

ACTIONS

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# TRANSPORTATION

Goals

Strategies

**GOAL** Reduce emissions from the transportation sector

## STRATEGIES

- Reduce vehicle miles traveled
- Enhance public transportation, bicycling, walking, and shared transportation options
- Accelerate the electrification of the transportation system
- Make efficiency improvements to the transportation system
- Encourage more efficient land use patterns



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## TRANSPORTATION

Goals

Strategies

**GOAL** Improve the resilience of the transportation system to the impacts of climate change

### STRATEGIES

- Adapt critical transportation infrastructure for climate change impacts
- Design transportation infrastructure for future conditions

## 2 SMALL GROUPS

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**Breakout 1: Reduce Vehicle Miles and Enhance Alternative Transportation**

**Breakout 2: Electrification of the Transportation System**

## HIGHLIGHTED ACTIONS

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**Reduce Vehicle Miles and Enhance  
Alternative Transportation**

Electrification of the Transportation  
System

## GOAL

Reduce emissions from the transportation sector

## STRATEGY

Reduce vehicle miles traveled

## ACTIONS

- Improve broadband access across Cape Cod
- Support work from home policies
- **Explore pricing mechanisms that incentivize GHG reduction strategies and funds other strategies**

## STRATEGY

Enhance public transportation, bicycling, walking, and shared transportation options\*

## ACTIONS

- Encourage carpooling and ridesharing\*
- Expansion and improvements of park and ride facilities
- **Improved coordination between modes**
- Reduce parking standards/requirements
- Improve the public transit network
- **Expand passenger rail service**
- **Expand and improve the bicyclist and pedestrian network as alternate transportation modes**
- **Consider new water transportation options**



## GOAL

Reduce emissions from the transportation sector (cont.)

## STRATEGY

Encourage more efficient land use patterns

## ACTIONS

- Mix land uses where possible
- Promote infill and adaptive use development
- ***Promote Transit Oriented Development (TOD)***
- **Focus Growth in Activity Centers**
- **Consider undevelopment where appropriate**

## HIGHLIGHTED ACTIONS

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**Reduce Vehicle Miles and Enhance  
Alternative Transportation**

Electrification of the Transportation  
System

# BREAK



## HIGHLIGHTED ACTIONS

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Reduce Vehicle Miles and Enhance  
Alternative Transportation

**Electrification of the Transportation  
System**

## GOAL

Reduce emissions from the transportation sector (cont.)

## STRATEGY

Accelerate the electrification of the transportation system\*

## ACTIONS

- **Support investments in EV infrastructure and programs that incentivize EV adoption, including for Cape visitors\***
- **Electrify public transit vehicles\***
- **Electrify vehicle fleets (municipal vehicles, school buses, delivery vehicles...)\***
- **Electrify ocean-based transport (personal watercraft, commercial fleets, improve dockside infrastructure, etc.)\***

## STRATEGY

Make efficiency improvements to the transportation system

## ACTIONS

- Address inefficient traffic signals, upgrades
- Address bottleneck locations
- Upgrade LED for streetlights
- **Improve the efficiency of freight movement (including waste) by all modes (on road, rail, and waterborne)**



## HIGHLIGHTED ACTIONS

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Reduce Vehicle Miles and Enhance  
Alternative Transportation

**Electrification of the Transportation  
System**



# Community

5

GOALS

9

STRATEGIES

18

ACTIONS

# 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

## GOAL

Improve broad public knowledge and understanding of climate change impacts and programs

## STRATEGY

Increase education and communications about climate change mitigation options\*

## ACTIONS

- *Provide guidance for communities that help prioritize actions to reduce greenhouse gas emissions*
- *Identify and distribute a GHG calculator to assess emissions associated with personal travel, consumption choices, etc.*

## GOAL

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

## STRATEGY

Where suitable, identify and adopt regional goals and policies that help advance mitigation strategies and actions

## ACTIONS

- *Adopt objectives in the RPP to promote low carbon transportation alternatives, low carbon technologies for building heating and cooling, to promote carbon sequestration through land use practices, and to promote low carbon energy generation*
- *Develop technical guidance to support the new RPP goal and objectives*

## GOAL

Increase data collection and access

## STRATEGY

Identify more granular, town-specific data of GHG emissions

## ACTIONS

- *Request legislative change to mandate provision of fuel use data at municipal level*

## GOAL

Establish strategic partnerships to advance shared goals

## STRATEGY

Foster collaborations between the public and private sectors\*

## ACTIONS

- *Identify opportunities for strategic partnerships to advance common goals or objectives*

# 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



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

## 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



STAKEHOLDER WORKING GROUP  
TRANSPORTATION - 11/18/2020