

CITY OF CARMEL-BY-THE-SEA CLIMATE COMMITEE

Contact: 831.620.2000 www.ci.carmel.ca.us/carmel

All meetings are held in the City Council Chambers
East Side of Monte Verde Street
Between Ocean and 7th Avenues

REGULAR MEETING Thursday, February 20, 2020

4:00 PM

CALL TO ORDER AND ROLL CALL PUBLIC APPEARANCES

Members of the public are entitled to speak on matters of municipal concern not on the agenda during Public Appearances. Each person's comments shall be limited to 3 minutes, or as otherwise established by the Committee. Matters not appearing on Committee's agenda will not receive action at this meeting but may be referred to staff for a future meeting. Persons are not required to give their names, but it is helpful for speakers to state their names so that they may be identified in the minutes of the meeting.

ANNOUNCEMENTS

ORDERS OF BUSINESS

Orders of Business are agenda items that require Committee discussion, debate, direction to staff, and/or action.

- 1. Review of Revised Priority Hazards and Assets Matrix, Data Sources and Gaps
- 2. Consideration of Consultant Support Services
- 3. Review of the Draft List of Community Organizations and Regional Partners for the Climate Action and Adaptation Plan Project
- **4.** Review of the Draft Work Plan for Developing a Climate Action Plan

AGENDA ITEMS FOR NEXT MEETING

ADJOURNMENT

This agenda was posted at City Hall located on Monte Verde Street between Ocean and 7th Avenues, Harrison Memorial Library located on the NE corner of Ocean Avenue and Lincoln Street, and the Carmel-by-the-Sea Post Office located on 5th Avenue between Dolores Street and San Carlos Street, and the City's webpage http://www.ci.carmel.ca.us/carmel/ on in accordance with the applicable legal requirements.

SUPPLEMENTAL MATERIAL RECEIVED AFTER THE POSTING OF THE AGENDA

Any supplemental writings or documents distributed to a majority of the Climate Committee regarding any item on this agenda, received after the posting of the agenda will be available at the Public Works Department located on the east side of Junipero Street between Fourth and Fifth Avenues during normal business hours.

SPECIAL NOTICES TO PUBLIC

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the City Clerk's Office at 831-620-2000 at least 48 hours prior to the meeting to ensure that reasonable arrangements can be made to provide accessibility to the meeting (28CFR 35.102-35.104 ADA Title II).



February 20, 2020 ORDERS OF BUSINESS

TO: Climate Committee Members

SUBMITTED Agnes Martelet, Environmental Compliance Manager

BY:

SUBJECT: Review of Revised Priority Hazards and Assets Matrix, Data Sources and Gaps

RECOMMENDATION:

Review and provide comments on the revised matrix of priority hazards and assets at risk, and on the draft list of data sources and data gaps.

BACKGROUND/SUMMARY:

A draft list of priority hazards and assets at risk was provided at the previous Climate Committee meeting for review. Comments from the Committee have been incorporated in the revised matrix included in Attachment 1.

The matrix of priority hazards and assets at risk was used as the basis to develop a draft table of data sources and data gaps, which is included in Attachment 2. Data sources identified in the table include locally-created documents and publicly available regional and statewide data sources. Important assets and hazards for which no information source was identified were included on the list of data gaps.

FISCAL IMPACT:

N/A

ATTACHMENTS:

Attachment 1 - Priority Hazards and Assets

Attachment 2 - Data Sources and Data Gaps

				Priority Hazards			
Priority Assets at Risk	Sea Level Rise	Ocean Warming	Wildfires	Stronger Storms & Higher Windspeeds	More Variable Rainfall	Increased Temperature	Fog changes
Natural Assets							
Mission Trail Nature Preserve			Х	Х	Х	Х	Х
North Dunes	Х				Х	Х	Х
Urban Forest			Х	Х	Х	Х	Х
Marine Sanctuary		Х		Х	Х	Х	Х
Carmel Beach	Х	Х		Х			Х
Community							
Persons with disabilities			Х	Х	Х	Х	
Elderly Population			Х	Х	Х	Х	
Visitors	Х	Х	Х	Х			
Local Businesses	Х	Х	Х	Х		Х	
Utilities							
Water Supply (Drought Tolerance)			Х		X	X	
Electrical Energy Transmission (Electric Vehicles, safety power shutoffs, outages)			Х	Х	V	Х	
Sanitary Sewer System	X				Х		
PG&E underground infrastructure	X X		Х	X	Х		
Storm drainage system				^	^		
Regional Infrastructure							
Wastewater Treatment Facility	Х			Х	Х	Х	
Transportation Infrastructure	Х		Х	Х	Х		
Hospital and emergency medical care facilities			Х	Х		Х	
Landfill & Waste Management				X	Х		
Local Infrastructure							
Scenic coastal trail, public restrooms and							
beach access infrastructure	Х		Х	Х	X	X	Х
Coastal roadways and parking	Х			Х	Х	Х	
Seawalls and revetments	Х			Х	Х		
Other city streets				Х	Х		
Private property (including many second homes)	X		X	х	Х	X	

		Data Sources for I	Hazards			
			Data		7	
Priority Hazard	Priority Assets at Risk from Hazard	Source	Precision	Reliability	Data sources for assets at risk	Data Gaps
Sea Level Rise	- North Dunes	- USGS CosMos	Regional	Moderate	- Del Mar Master Plan, 2009	- PG&E infrastructure resilience and
	- Carmel Beach	- State of California Sea-Level Rise			- Shoreline Management Plan, 2003 (seawalls &	potential issues
	- Visitors	Guidance, 2018 Update			revetments, Scenic Coastal Trail)	- Evaluation of coastal infrastructure
	- Local businesses	- Cal-Adapt			- CAWD WWTP Sea Level Rise Study, 2018	based on new sea level rise
	- Sanitary sewer system				(WWTP and sewer system)	modeling
	- PG&E underground infrastructure				- North Dunes Restoration Plan, 2016 (North	- Critical transportation
	- Storm drainage system				Dunes)	infrastructure at risk
	- Wastewater treatment facility				- Storm Drain Master Plan, in process (Storm	
	- Transportation infrastructure				drainage system)	
	- Scenic coastal trail, public restrooms and				- Conserving California's Coastal Habitats, A	
	beach access infrastructure				Legacy and a Future with Sea Level Rise (regional	
	- Coastal roadways and parking				data, The Nature Conservancy)	
	- Seawalls and revetments					
	- Private property					
Ocean warming &	- Marine Sanctuary					- Projected impacts of ocean
acidification	- Carmel Beach					warming/acidification on local
	- Visitors					marine life and health of Sanctuary
	- Local businesses					
Wildfires	- Mission Trail Nature Preserve	- California 4th Climate Assessment	Regional	Moderate	- MTNP Baseline Biological Assessment, 2016	- Water supply resilience to wilfires
	- Urban forest	- Cal-Adapt			- MTNP Master Plan	- PG&E infrastructure resilience
	- Persons with disabilities	- Climate Change and Health Profile			- Forest Management Plan, 2000	- Emergency response and medical
	- Elderly population	Report, Monterey County, 2017			- Climate Change and Health Profile Report,	care resilience
	- Visitors	- Living with Fire in California's Coast			Monterey County, 2017 (sensitive populations)	
	- Local businesses	Ranges, Promoting Fire-Resistent			- City of Carmel-by-the-Sea Emergency	
	- Water supply	Communities and Landscapes in an Era of			Operations Plan, 2015	
	- Electrical energy supply	Global Change, Symposium Proceedings,				
	- Transportation infrastructure	May 2018				
	- Hospital and emergency medical care					
	- Scenic coastal trail, rr, and beach access					
	- Private property, incl. 2nd homes					

		Data Sources for H	lazards			
			Data			
Priority Hazard	Priority Assets at Risk from Hazard	Source	Precision	Reliability	Data sources for assets at risk	Data Gaps
Stonger storms and	- Mission Trail Nature preserve	- California 4th Climate Assessment	Regional	Moderate	- MTNP Baseline Biological Assessment, 2016	- Resilience of urban forest to
higher windspeeds	- Urban forest	- Cal-Adapt			- MTNP Stream Stability Study, 2019	stronger storms
	- Marine sanctuary				- Storm Drain Master Plan, in progress	- Resilience of PG&E infrastructure
	- Carmel Beach				- Shoreline Management Plan, 2003	- Resilience of waste management
	- Persons with disabilities					operations to stronger storms and
	- Elderly population					variable rainfall
	- Visitors					- Emergency response and medical
	- Local businesses					care resilience
	- Electrical energy transmission					- Combined effects of erosion from
	- PG&E underground infrastructure					stronger storms and sea level rise on
	- Storm drainage system					coastal infrastructure
	- Transportation infrastructure					
	- Hospital and emergency medical care					
	- Landfill and waste management					
	- Scenic coastal trail, public restrooms and					
	beach access infrastructure					
	- Coastal roadways and parking					
	- Seawalls and revetments					
	- Other city streets					
More variable rainfall	- Mission Trail Nature Preserve	California 4th Climate Assessment	Regional	Low	- North Dunes Restoration Plan, 2016	- Water supply resilience to
	- North Dunes	Cal-Adapt			- North Dunes Restoration Project Update, 2019	droughts
	- Urban forest				- Monterey Peninsula, Carmel Bay and South	- Emergency response and medical
	- Marine Sanctuary				Monterey Bay Integrated Regional Water	care resilience
	- Water supply				Management Plan Update, August 2019 (Water	- Combined effects of erosion from
	- Sanitary sewer system				supply, habitats)	stronger storms and sea level rise on
	- Storm drainage system				- 2010 Urban Water Management Plan,	coastal infrastructure
	- Wastewater treatment facility				Monterey County District, California American	
	- Transportation Infrastructure				Water, September 2012 (Water supply)	
	- Landfill and waste management					
	- Scenic coastal trail, public restrooms and					
	beach access infrastructure					
	- Coastal roadways and parking					
	- Seawalls and revetments					
	- Other city streets					
	- Private property, incl. second homes					

City of Carmel-by-the-Sea Data Sources and Data Gaps February 20, 2020

		Data Sources for H	lazards			
			Data			
Priority Hazard	Priority Assets at Risk from Hazard	Source	Precision	Reliability	Data sources for assets at risk	Data Gaps
Increased temperature	- Mission Trail Nature Preserve	Cal-Adapt	Regional	Moderate	Climate Change and Health Profile Report,	- Urban forest resilience to
	- North Dunes	Climate Change and Health Profile Report,			Monterey County (Persons w disabilities, elderly	increased temperature
	- Urban Forest	Monterey County, 2017			population, health & vector borne illness impacts)	
	- Marine Sanctuary					
	- Persons with disabilities					
	- Elderly population					
	- Electrical energy transmission					
	- Water supply					
	- Wastewater treatment facility					
	- Hospital and emergency medical care					
	- Scenic coastal trail, rr, beach access					
	- Coastal roadways and parking					
	- Private property					
Fog changes	- Mission Trail Nature Preserve	California 4th Climate Assessment	Regional	Low		- Future fog patterns
	- North Dunes					
	- Urban Forest					
	- Marine Sanctuary					
	- Carmel Beach					
	- Scenic coastal trail, rr, beach access					



February 20, 2020 ORDERS OF BUSINESS

TO: Climate Committee Members

SUBMITTED Carrie Theis, Council Member

BY:

SUBJECT: Consideration of Consultant Support Services

RECOMMENDATION:

Consider the option to retain a qualified consultant to support the Committee's efforts to prepare the Climate Action and Adaptation Plan.

BACKGROUND/SUMMARY:

The Climate Committee, with the help of City Staff, has developed a draft work plan for a Climate Adaptation Plan. This work plan contains four phases of tasks with a timeline to be completed by August of 2021. Additionally, staff has prepared and will present a Climate Action Plan at this February meeting which will have more phases and tasks and will coincide with the Climate Adaptation Plan. Between the two work plans, the work needed to accomplish all of the tasks is significant and could be aided with consulting support.

In the FY 2019/20 budget ending June 30, 2020, the City Council allocated \$55,000 towards the Climate Change project. When looking over the workload of both plans, the Committee could use these funds to hire a consultant to assist with the Phase II of the Climate Adaptation Plan, Assess Vulnerability.

If the Climate Committee agrees with this consulting support, then a small committee would need to be assembled to look over the qualifications of several environmental consultants, interview the most qualified firms, and make a hiring recommendation to the Climate Committee. The resulting Professional Services Agreement with the best qualified firm would be subject to approval by the City Council.

FISCAL IMPACT:

In the FY 2019/20 Capital Improvement budget ending June 30, 2020, the City Council allocated \$55,000 towards the Climate Change project. These funds could be fully or partially committed to retain a consultant to support the Committee's efforts. Any unused funds at the end of the fiscal year may be rolled over to the next fiscal year.

ATTACHMENTS:



February 20, 2020 ORDERS OF BUSINESS

TO: Climate Committee Members

SUBMITTED Agnes Martelet, Environmental Compliance Manager

BY:

SUBJECT: Review of the Draft List of Community Organizations and Regional Partners for the

Climate Action and Adaptation Plan Project

RECOMMENDATION:

Review and provide comments on the draft list of Community Organizations and Regional Partners for the Climate Action and Adaptation Plan Project.

BACKGROUND/SUMMARY:

Engaging community groups and regional organizations would help the Climate Action and Adaptation Plan Project by providing knowledge, information, and ideas that the Climate Committee may want to consider. Additionally, engaging various groups can help foster collaboration on solutions, which could result in more timely and effective implementation.

Attachment 1 provides a list of community organizations and regional groups that could be engaged regarding the Climate Project. The list includes potential topics of discussion and primary contacts for those organizations. The list also includes a column for Climate Committee members that could potentially take the lead on outreach to these organizations. Committee member names were only included in the potential outreach lead column if contact has already been made with an organization.

FISCAL IMPACT:

N/A

ATTACHMENTS:

Attachment 1 - Community Organizations and Regional Partners to Engage

Community Organizations and Regional Partners to Engage City of Carmel-by-the-Sea Climate Project

February 20, 2020

	ORGANIZATION	Topic (s)	Contact Persons	Potential Lead
	Utilities			
1	Carmel Area Wastewater District	Sewer system	Barbara Buikema, Daryl	
		Wastewater Treatment Facility	Lauer	
2	Monterey Bay Community Power	Energy supply		
3	Cal Am	Water supply		
4	Monterey Peninsula Water	Water supply	Stephanie Locke	
	Management District			
5	GreenWaste Recovery	Waste management and recycling	Jim Moresco	
6	Monterey Regional Waste Management	Waste management and recycling	Tim Flanagan	
	District			
7	PG&E	Energy supply		
	Professional Organizations			
1	California AIA	Built environment resilience		
2	Chamber of Commerce	Local business, tourism	Jenny McMurdo	
3	Monterey County Association of	Sea Level Rise		
	Realtors	Wildfire risk		
4	MCCVB	Visitors		
5	Visit Carmel	Visitors / local business	Amy Herzog	
6	Carmel Innkeepers Association	Visitors / local business		
7	Sunset Center		Christine Sandin	
	Local Community Groups			
1	Carmel Residents Association	Community resilience	Barbara Livingston	
		Climate action		
2	Carmel Advisory Board	Community resilience		
		Climate action		
3	Carmel Rotary Club	Community resilience		Carrie, Jeff
		Climate action		
4	Carmel Lions Club	Community resilience		
		Climate action		
5	Friends of Carmel Forest	Urban forest	Ramie Allard	

6	Friends of MTNP	Wildfire risk Sensitive habitats	Skip Lloyd	
7	Del Monte Forest Conservancy	Wildfire risk		
8	Landwatch	Transportation, housing	Mike DeLapa	
9	Sustainable Carmel	Climate action	Ellen Gannon	
10	Church auxiliaries			
11	Heritage Society			
12	Forest Theater Guild			
13	PacRep			
	City Departments			
1	Police and Fire	Emergency preparedness Transportation	Paul Tomasi	
2	Forestry Division (PW)	Urban forest	Sara Davis	
		Sensitive habitats		
	City Commissions			·
1	Forest & Beach Commission	Sea Level Rise		
		Urban forest		
		Sensitive habitats		
		Climate action		
2	Planning Commission	Built environment resilience		
		Climate action		
3	City Traffic Safety Committee	Transportation		
4	Library Board	Climate action		
		Community resilience		
	Federal / State / Regional Agencies			
1	AMBAG	Climate Action	Elisabeth Bertrand	Agnes
		Transportation		
2	USGS	Sea Level Rise	Patrick Barnard	Agnes
3	CalFire	Wildfire risk and resilience		
		Urban forest management		
4	CA Department of Insurance	Wildfire risk / home insurability		
5	California Coastal Commission	Sea Level Rise		
6	IRWMP Group	Water supply		
		Watershed / storm water projects		
7	Monterey County (OES)			
8	Monterey Bay National Marine	Marine Sanctuary impacts	Bridget Hoover	
	Sanctuary (NOAA)	Carmel Beach		
9	California Current Acidification Network	Ocean acidification and warming		
		impacts		

10	Transportation Agency of Monterey	Transportation		
4.4	County	Constalination		
11	US Navy / Coast Guards	Coastal impacts		
	Educational Groups	T	1	
1	Carmel High School Environmental Club	Internships		
		Climate Action partnership / Green		
	Charles Wall Coals Cataling	Schools		
2	Stevenson, York, Santa Catalina	Climate Action partnership / Green Schools		
3	Youth Center	Climate Action partnership / Green		
		Schools		
4	CSUMB	Internships		
		Climate Action partnership / Green		
		Schools		
5	MPCC	Internships		
		Climate Action partnership / Green		
		Schools		
6	MIISS	Climate Action partnership / Green		
		Schools		
7	NPS	Climate Action partnership / Green		
		Schools		
	Regional Non-Profit Organizations			
1	Monterey Bay Economic Partnership	Climate Action Support		
2	Monterey Bay Aquarium	Marine Sanctuary impacts		
		Climate Action Support		
3	Ecology Action	Climate Action Support		
	Other Stakeholders			
1	Pebble Beach Company	Bluffs / Seawalls / Beach		
		Regional transportation		
		Emergency response		
2	Principals Involved in 1983 response;	Bluffs / Seawalls / Beach	Greg D'Ambrosio (past	
	authors of the CBTS Shoreline		Assistant City	
	Management Plan		Administrator); David	
			Shonman (Coastal Biologist)	
3	Cities with similar challenges (e.g. PG,			
	Monterey, Seaside, Pacifica, Del Mar,			
	Malibu, Dana Point, Imperial Beach)			



February 20, 2020 ORDERS OF BUSINESS

TO: Climate Committee Members

SUBMITTED Evan Kort, Assistant Planner

BY:

SUBJECT: Review of the Draft Work Plan for Developing a Climate Action Plan

RECOMMENDATION:

Review and provide comments on the draft work plan to develop a Climate Action Plan.

BACKGROUND/SUMMARY:

A draft work plan to develop the Climate Adaptation Plan was reviewed at the Committee's January meeting. This Climate Action Work Plan, which is included in Attachment 1, covers actions to reduce greenhouse gas emissions. This work plan is organized to have major milestones coordinated with those of the Climate Adaptation Plan so the two plans can be completed in tandem.

FISCAL IMPACT:

N/A

ATTACHMENTS:

Attachment 1 - Climate Action Plan Work Plan

Climate Action Plan DRAFT WORK PLAN

Februrary 20, 2020

		Suggested	Suggested Timeline																					
Project Phase	Tasks	Lead(s)	Done	? Sep-19	9 Oct-19	Nov-19	9 Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20 Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21 Feb-2	1 Mar-	21 Apr-	21 May-21	Jun-21	Jul-21 Aug-21 Se
Phase I - Project	t Definition and Initiation	ì									•	•												
,	Create a Climate Action Plan Advisory Committee	Council	√																					
	Identify desired project outcomes (mission)	Committee	✓																					
	Education: Background on GHG Inventory	Staff	√																					
	Education: Climate Action Planning Guidance	Staff	1																					
	Work Plan & Discuss the Scope of the Plan	Staff																	 					
	Identify & make contact with community organizations to engage with for	Stan																						
	** information sharing and coordination	Committee																						
	Identify & make contact with regional partners to engage with for	Committee																						
	** information and coordination	Council																						
	Identify sources of support & timing of support where applicable (e.g.	Courien																						
	** grants)	Staff																						
	Identify opportunies for community workshops and educational outreach	Stan	ı																					
	** (continuous)	Council/Commit	tee																					
	** Council Update on Phase I progress	Council	T								\rightarrow								 					
Phase II - Rase	ine Assessments & Target Adoption	Council																						
T Hase II - Dase	Develop Community Inventory Baseline (2015)	Staff																						
	Develop Municipal Inventory Baseline	Staff*																	 					
	Identify Goals and GHG Emissions Reduction Targets	Committee																						
	Estimate trends through an emissions forecast	Staff*																	 					
	Council Update on Inventories, Forecasting, and preliminary strategies for	Stan																						
	** GHG reduction	Council																						
	Identify opportunies for community workshops and educational outreach	Council																						
	(continuous)	Council/Commit	too																					
Phase III - Day	Plop Climate Action Plan	councily commit	T																					
riiase iii - Deve	Identify Greenhouse Gas Emissions Reduction Strategies	Committee*																						
	Review and prioritize strategies	Committee*																						
	Conduct Analysis and Assemble Plan Strategies	Staff*																						
	Create Implementation Framework and Timeline	Council*																						
	Engagement and Outreach: workshops to develop and gather feedback on	Council	ı																					
	** proposed strategies & implementation timeline	Council/Commit	too*																					
	Council Review of Prioritized Strategies	Council*	T																		- 1	_		
Phase IV Action	on Plan Implementation & Adoption	Council						1					1						1					
riiase IV - ACTIO	** Assemble Climate Action Plan Report	Staff*						 					1											
	** Review and Finalize Report	Staff*											1											
	** Council Review and Adoption of the Plan	Council						-					1						1					
	Council Neview and Adoption of the Plan	Council																						
* donotos itam t	ant could be conducted by consultant							-																
uenotes item t	nat could be conducted by consultant							J							l			J					1	

^{**} shared task with Adaptation Plan