

Climate Action and Adaptation Plan Overview

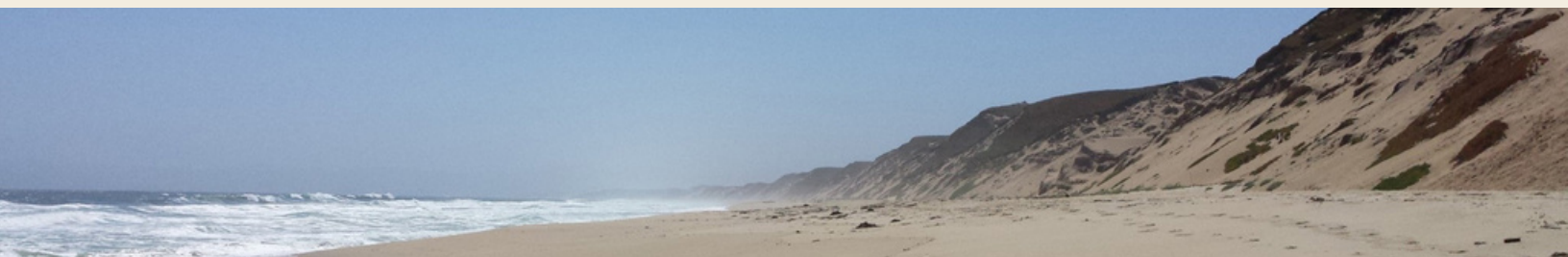


WHAT IS THE CLIMATE ACTION AND ADAPTATION PLAN (CAAP)?

The Marina Coast Water District's Climate Action and Adaptation Plan is a comprehensive guide to both current and future mitigation and adaptation efforts. It builds upon existing climate change response efforts and presents goals and strategies to guide the expansion and continuation of these efforts.

WHY DOES MARINA COAST WATER DISTRICT NEED A CAAP?

Climate change is expected to alter the local climate in MCWD's service area. Changes in precipitation, temperature, and other climactic changes may challenge MCWD in numerous ways. The District has made it a goal to reduce its GHG emissions by 40% by 2030 and 80% by 2050 to reduce its contribution to climate change.



WHAT IS IN THE CAAP? HOW WILL MCWD USE THE CAAP?

The CAAP discusses projected changes to Monterey County's climate and creates a framework for action to combat climate change. It analyzes current greenhouse gas (GHG) emissions, and lists strategies to reduce these emissions. It also outlines the District's vulnerabilities and risks due to climate change impacts, along with strategies to mitigate these impacts and improve resilience.

✦ Just last year, MCWD switched to a 100% renewable energy provider, cutting 53% of total emissions in the process.



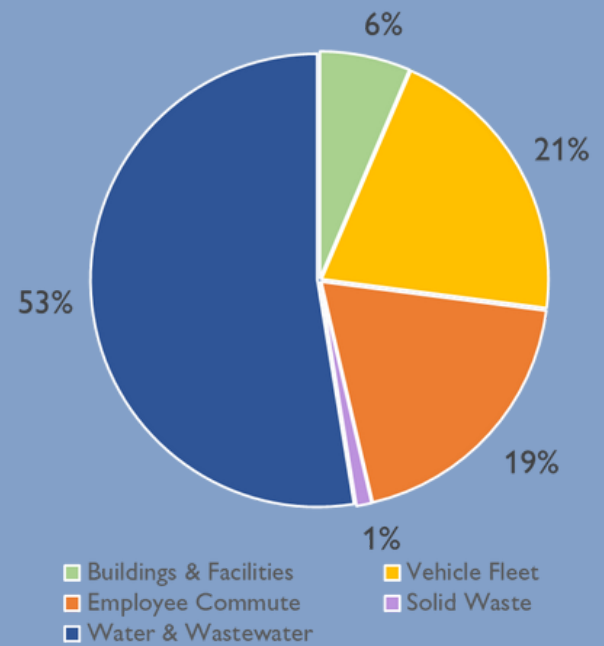
HOW CAN I GET INVOLVED WITH THE DEVELOPMENT OF THE CAAP?

The CAAP team is seeking input on the CAAP's goals, strategies, and actions. Feedback can be submitted through a survey or at community workshops that will be held throughout the creation of this document. Further updates and information on how to continue to engage can be found on the MCWD website under the Climate Action and Adaptation Planning section.

2018 GHG EMISSIONS BASELINE INVENTORY

Mitigation efforts are aimed at reducing the District's GHG emissions when compared to 2018 emissions levels. California State reduction goals are a 40% reduction from the baseline by 2030 and carbon neutrality by 2045.

MCWD 2018 GHG Emissions by Sector



Emission Reduction Strategies



Strategies shown below include examples of actions that may be recommended to reduce emissions. If you have additional ideas, please submit them through the survey.

VEHICLE FLEET

- Transition fleet to Zero Emission Vehicles (ZEV).
- Install EV charging stations at office locations.



EMPLOYEE COMMUTE

- Create an incentive program that rewards commuting options such as public transit, carpooling, biking, and using an electric vehicle.

DIESEL FLEET VEHICLES

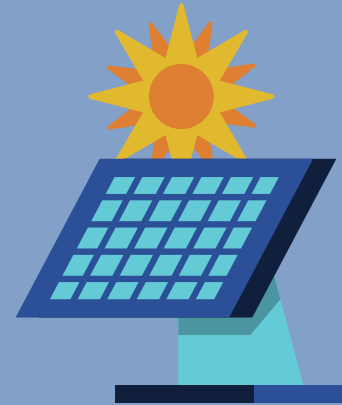
- Transition to alternative fuels, such as bio-diesel or renewable diesel, in heavy-duty diesel fleet vehicles.

Emission Reduction Strategies



BUILDING & WATER/WASTEWATER FACILITIES ENERGY

- Install onsite renewable energy to power facilities.



BUILDING & WATER/WASTEWATER FACILITIES ENERGY

- Provide services using 100% renewable energy from 3CE
- Completed



BUILDING ENERGY

- Perform energy audits to ensure the greatest efficiency in facilities.

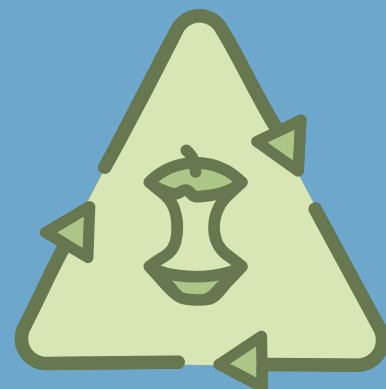


BUILDING ENERGY

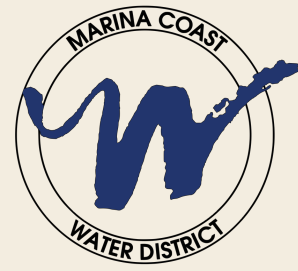
- Remove natural gas and convert existing buildings to 100% electric

SOLID WASTE

- Increase waste diversion at District offices.



Adaptation Strategies

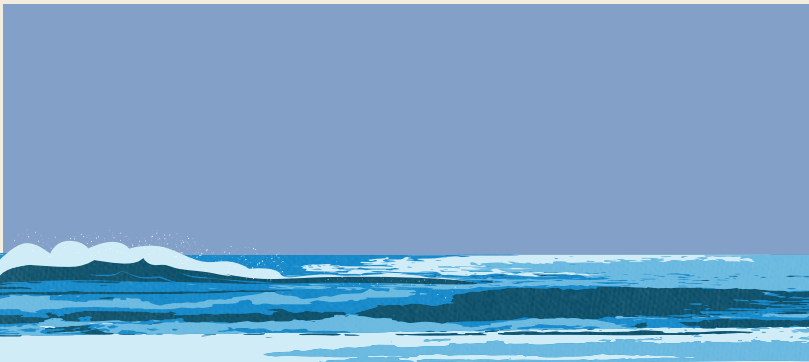


Strategies shown below include examples of actions that may be recommended to adapt to climate change. If you have additional ideas, please submit them through the survey.

Managed retreat - move facilities elsewhere. Coastal erosion will undermine the structural integrity of the MCWD desalination plant, so it must be relocated.



Armor and reinforce vulnerable facilities. Most MCWD wells and pumps are north of the 100-year flood zone but may need reinforcements as the topography of the valley shifts.



Develop alternative water sources such as recycled water programs, surface water capture technologies, and the use of MCWD desalination plants in case of severe and prolonged drought.

Institute water shortage contingency plan during drought to manage water demand.



Activate backup generators to continue to supply MCWD customers with water during mandated and unexpected power outages.

Adaptation Strategies



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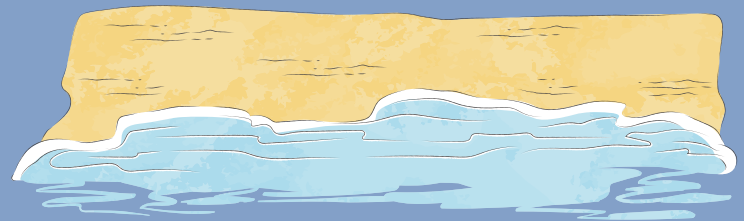
Prepare an incident operational support guideline to protect MCWD pipelines from collapse if large volumes of water are drawn to combat wildfire.



Create defensible space around MCWD facilities to prevent essential buildings from catching fire.

Move wells inland to reach a non-seawater-contaminated portion of aquifer.

Facilitate participation in a seawater intrusion barrier amongst Monterey Bay stakeholders to both slow the movement of contaminated seawater into freshwater aquifers and provide cheap brackish water for desalination.



**VISIT WWW.MCWD.ORG/CLIMATEACTIONPLAN
FOR MORE INFORMATION ON THE DISTRICT'S
CLIMATE ACTION PLAN**