

# Climate Planning

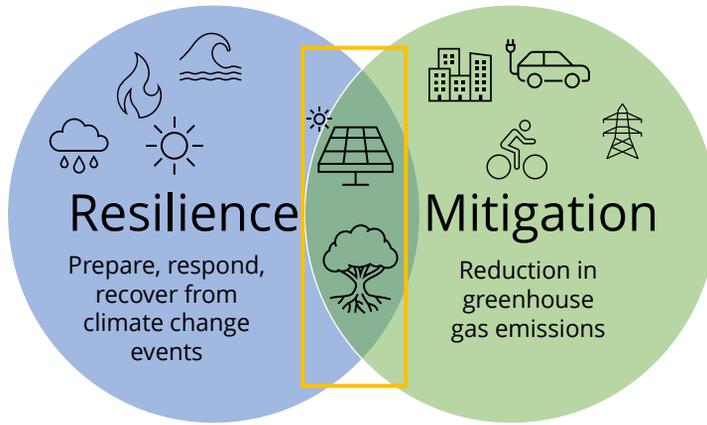
Climate Action Plan & Climate Resilient SD

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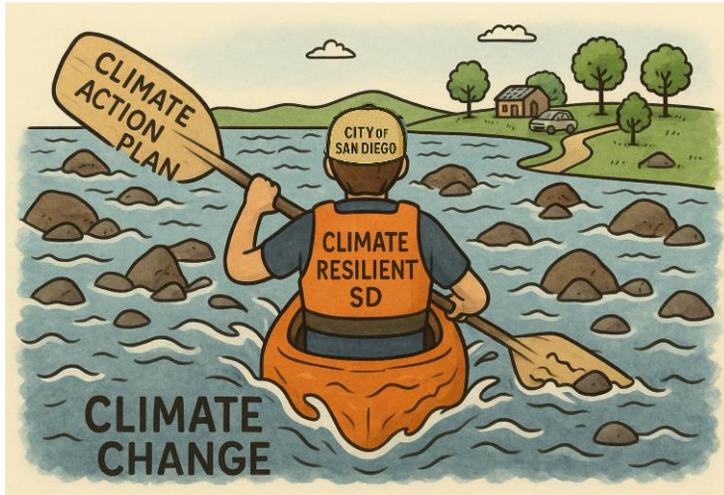
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## Climate Resilient SD & Climate Action Plan



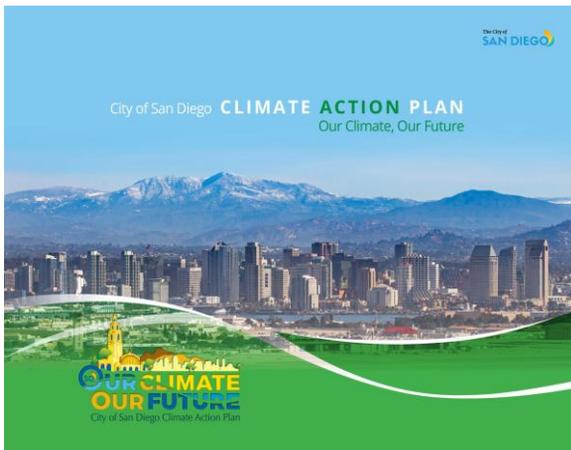
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# Climate Resilient SD & Climate Action Plan



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## 2022 Climate Action Plan

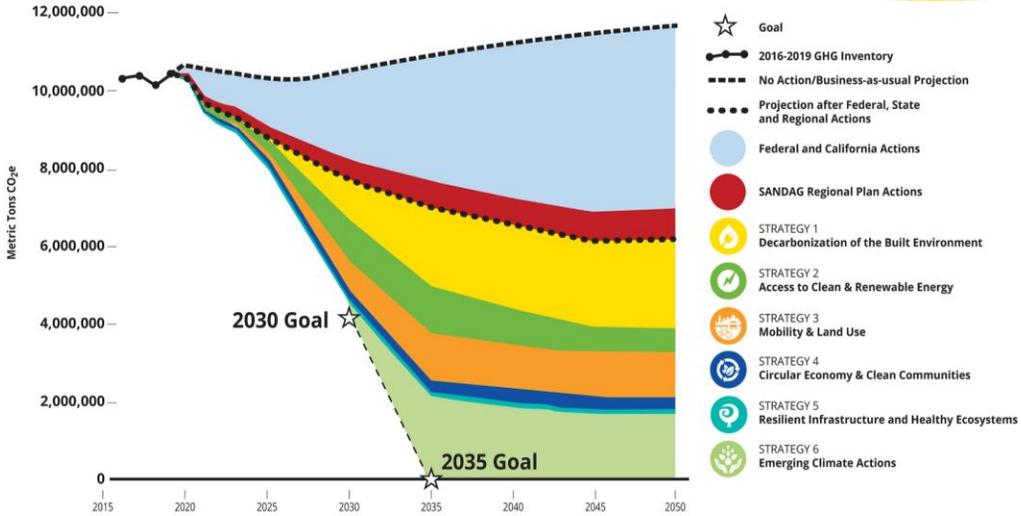


### Communitywide Goal: Net Zero Emissions by 2035

- Developed with community partners
- Prioritizes Communities of Concern
- Supports clean air & green jobs
- Maintains CEQA streamlining

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# GHG Reductions by Strategy



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## Strategy 4: Circular Economy & Clean Communities



This strategy maintains a 90% waste diversion rate and captures methane from our landfill and wastewater treatment facilities. It also includes actions to increase healthy food access and food recovery.

2030 Target	2035 Target
82% Waste Diversion Rate and 85% Landfill Gas Capture	90% Waste Diversion Rate and 90% Landfill Gas Capture
99% Methane Capture	99% Methane Capture



**DECEMBER 2023:** San Diego was *granted A-list status by the Carbon Disclosure Project among 119 cities worldwide*, marking its third appearance on the list and its first A rating, joining visionary cities like Barcelona, Toronto and Buenos Aires.

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## Strategy 5: Resilient Infrastructure and Healthy Ecosystems

This strategy will help the City thrive in the face of the impacts of climate change through a greater focus on the greening of our City, starting with our Communities of Concern. It also includes targets for the restoration of salt marshland for sequestration and increasing our local water supply through Pure Water San Diego.



2030 Target	2035 Target
Restore <b>350 acres</b> of salt marshland and other associated tidal wetland and riparian habitats	Restore <b>700 acres</b> of salt marshland and other associated tidal wetland and riparian habitats
<b>28%</b> urban canopy cover	<b>35%</b> urban canopy cover
Provide <b>33,000 acre-feet</b> local water supply from Pure Water San Diego	Provide <b>93,000 acre-feet</b> local water supply from Pure Water San Diego



**OCTOBER 2023:** San Diego came in **first out of the 100 largest U.S. cities** in WalleHub's "Greenest Cities in America" ranking, with scores on Environment, Energy Sources, and Lifestyle & Policy propelling it to the top.

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## Climate Action Plan Dashboard

- The timing of data availability for the GHG inventory means that the impact of the City's CAP actions in any given year will not be observable for at least 1-2 years in the future.
- To enhance transparency and offer more timely updates on City progress, the City prepared a CAP dashboard.
- [Measure 5.1 Sequestration](#)
  - 7 actions
- [Measure 5.2 Tree Canopy](#)
  - 22 actions
- [Measure 5.3 Local Water Supply](#)
  - 10 actions



<https://climatedashboard.sandiego.gov>

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The San Diego Union-Tribune

A long, 'dangerously hot' heat wave will settle over inland San Diego County starting Monday



**WEATHER**  
**Coastal communities impacted by flooding prepare for another storm**  
 by Kelly Chambers  
 Updated: 10/11/2017 10:02 AM PDT  
 Original: 10/11/2017 9:58 AM PDT

**STORM DAMAGE**

THE LIGHT BEAT DOWNED FROM CLOUDS PILED TO OVER 100 FT

SHARE [Facebook] [Twitter] [LinkedIn] [Email]

High surf floods Mission Beach boardwalk



City crews work to secure area near e at Sunset Cliffs



Photos by City of San Diego  
The City of San Diego said 1000s of crews have begun working to remove and replace the guardrail, shifting the...

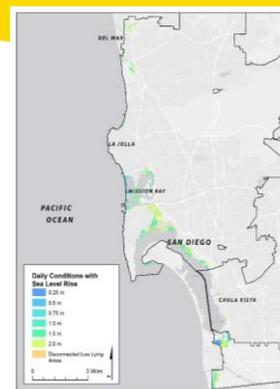
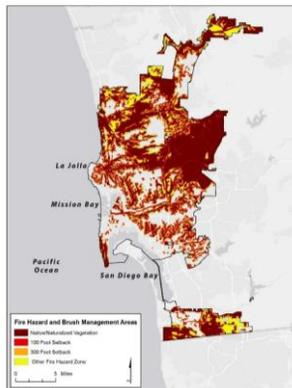
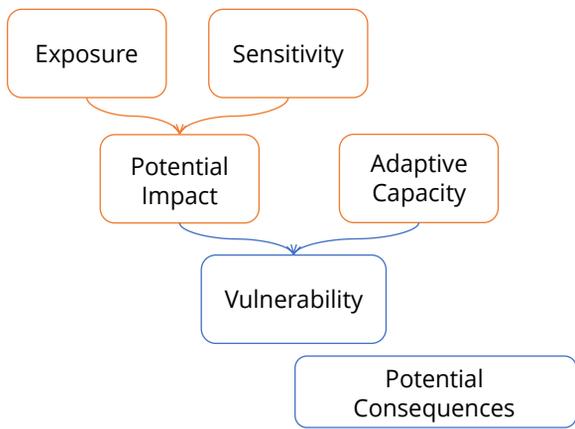
Photos: San Diego River floods in Mission Valley



In California, unhealthy pollution from wildfire smoke has become dangerously common



# Vulnerability Assessments







# Climate Resilient SD Plan Development



### Adaptation and Resilience Strategies

**How to Read a Strategy:**

- Climate Hazard:**
  - Wildfire
  - Coastal Hazards: coastal flooding and coastal erosion
  - Extreme Heat
  - Flooding and Drought
- Adaptation Strategy:** The strategy is a primary action, policy or program to achieve the goals of Climate Resilient SD.
- Adaptation Strategy Additional Information:** Provides additional information, context and/or action items for the adaptation strategy.
- Implementation Timeframe:** Identifies the timeline for the strategy to be implemented. Near: Next 5 years; Mid: Next 10 years; Long: 10 years + Ongoing: Continuous action.
- Core Benefits:** Identifies additional benefits associated with implementation of the adaptation strategy.
- City Services:** Identifies critical services provided by the City, such as maintaining streets, water supply, and Fire-Rescue services.
- Public Health and Safety:** Protect members of the public from the effects of extreme heat, flooding, and other climate hazards.
- Historic and Tribal Cultural:** Protect historic and tribal cultural resources such as historic structures, archaeological sites and artifacts and cultural landscapes against the impacts of climate change.
- Recreation, Green Spaces & Tourism:** Protect the City's recreational spaces, such as parks and beaches, so that residents and visitors alike can continue to enjoy them.
- Water Quality & Use:** Protect and improve the integrity of our water bodies through stormwater management and promotion of water conservation actions.
- Natural Resource Protection and Air Quality Improvement:** Protect and improve integrity of the City's natural spaces and resources, providing a multitude of benefits to the City's residents including air quality improvements.
- Greenhouse Gas Reductions:** Reduce emissions of climate change causing greenhouse gases into the atmosphere.
- Economic Continuity:** Help the City's economy to continue thriving in the face of climate change impacts.
- Social Equity:** Protect the City's most vulnerable communities from the effects of climate change.
- Implementation Cost Estimate:** Identifies an order of magnitude cost estimate for implementation of the adaptation strategy. Low is up to \$1 million, Medium is \$1 million to \$10 million, High is exceeding \$10 million.
- O&M Estimate:** Identifies an order of magnitude cost estimate for ongoing operations and maintenance of the adaptation strategy. Low is up to \$1 million, Medium is \$1 million to \$10 million, High is exceeding \$10 million.

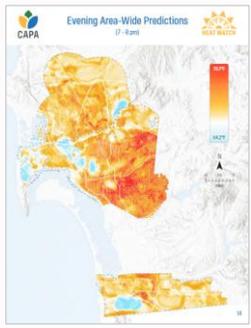
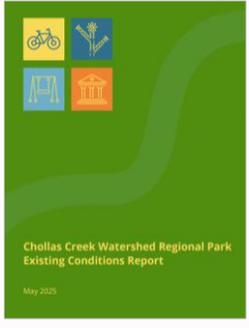
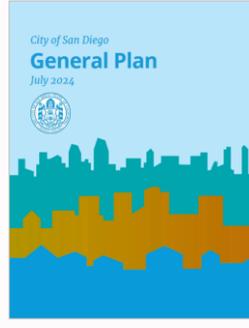
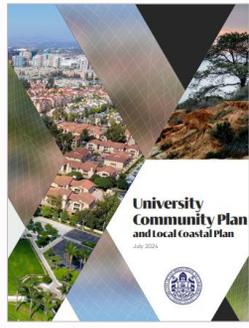
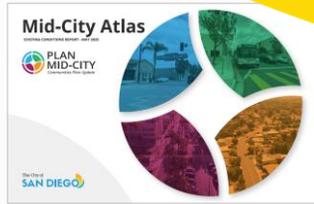
**Goal:** Support and prioritize thriving natural environments and enhance adaptability.  
**Policy TNE-3:** Prioritize the implementation of nature-based climate change solutions wherever feasible.

CLIMATE HAZARDS	ADAPTATION STRATEGY AND ADDITIONAL INFORMATION	TIMEFRAME	CORE BENEFITS	COST CAPITAL / O&M
Coastal Flooding	<p>Implement nature-based shoreline protection methods to protect areas subject to coastal flooding. Develop a coastal resilience master plan that would identify locations for implementation of nature-based solutions to mitigate coastal flooding and erosion, improve coastal resiliency, protect habitat, and increase recreational opportunities for residents and visitors.</p> <p>Nature-based shoreline protection could include beach nourishment, living shorelines, dune restoration, native plantings, habitat restoration, waterfront/poolside parks, kelp farms or oyster reefs.</p>	Near, Ongoing	<ul style="list-style-type: none"> <li>Coastal Resilience</li> <li>Habitat</li> <li>Recreation</li> <li>Water Quality</li> <li>Wildfire</li> </ul>	<ul style="list-style-type: none"> <li>Low</li> <li>Medium</li> <li>High</li> </ul>

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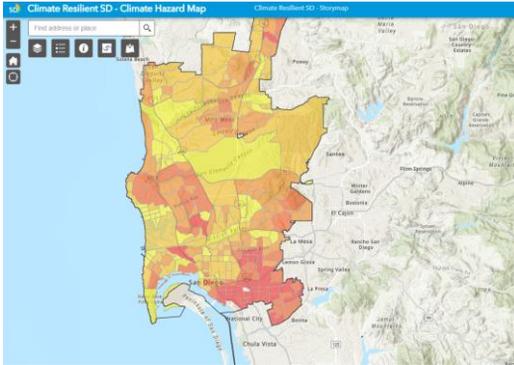
# Integration into Planning Efforts



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# Integration into Infrastructure Planning



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# Community Outreach & Engagement



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## Coastal Resilience Master Plan



### Ocean Beach Pier



## Mission Bay



### De Anza Natural



# Implementation Tracking



#### Implementation Progress

**Critical City Services Policies**

Expand a policy to view related resilience and adaptation strategies and their implementation statuses.

#### Implementation Highlights

**Policy: Build City capacity to be responsive to future climate change-related events and challenges.**

ADAPTATION STRATEGY	Develop workforce preparedness training opportunities and programs to quickly restore essential City services.	IN PROGRESS
ADAPTATION STRATEGY	Build redundancy and/or backup resources available to support critical operations and services during an emergency event.	IN PROGRESS
ADAPTATION STRATEGY	Implement a knowledge transfer and training program to ensure that natural hazard response procedures are not lost with staff turnover.	IN PROGRESS
ADAPTATION STRATEGY	Create web map for primary climate change hazard. Update City's geographic information system database as best available science for climate change projections and State guidance is updated.	IN PROGRESS
ADAPTATION STRATEGY	Account for high heat days when planning City staff duties to minimize exposure to extreme heat and/or provide necessary protective measures.	NOT YET STARTED

#### Implementation Progress

**Implementation Highlights**

#### Implementation Highlights

The Stormwater Department developed the first version of the Climate Change Resilient Stormwater System Design Guidelines that consider precipitation and sea level rise projections. The Design Guidelines provide recommended design criteria that incorporate climate change projections with the goal of preparing for climate change impacts and improving stormwater infrastructure resilience.

In coordination with the Department of General Services, Engineering and Capital Projects, and other City Departments, the Sustainability and Mobility Department established a Phase 1 portfolio of 19 municipal facilities to be assessed for energy improvements, including energy efficiency, solar, battery energy storage and microgrids. The Sustainability and Mobility Department selected an Energy Service Company partner to perform preliminary assessments of the Phase 1 facilities. These assessments will inform future upgrades to support the City's climate action goals and provide greater energy resilience to City facilities.

The City Planning Department incorporated climate resilience and hazard mitigation into its long-range planning efforts, such as Blueprint SD and the University Community Plan Update. Blueprint SD creates an equitable and sustainable framework for growth by identifying areas for more homes and jobs that are connected to options for walk, bike and ride transit. Blueprint SD also included updated policies that reflect the latest climate change science. The University Community Plan Update included considerations for sea level rise, flooding, wildfire and extreme heat risks posed to the community and included policies to mitigate these risks.

# Thank you!

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