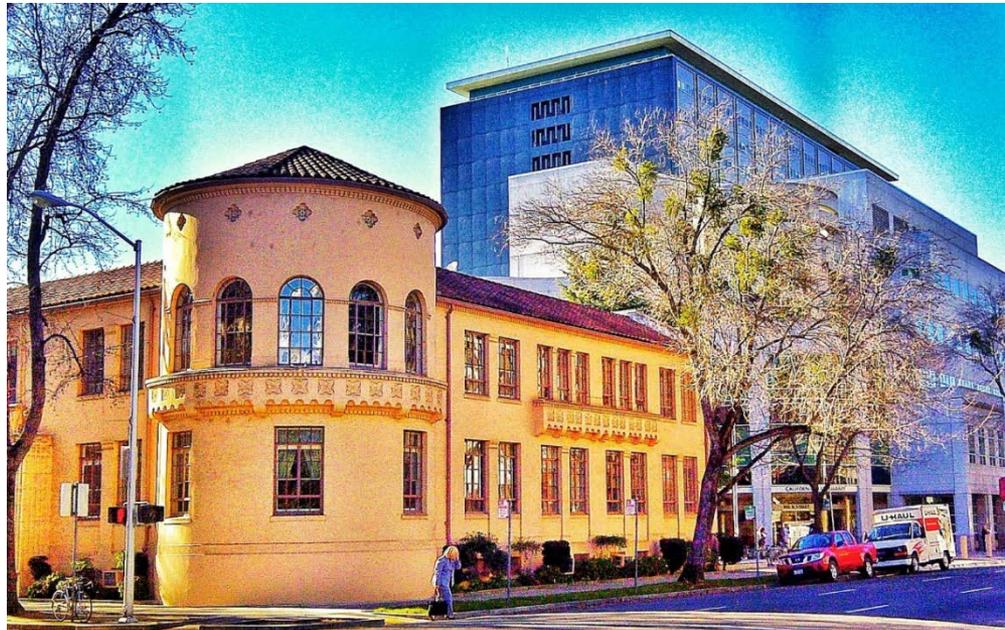


DOCKETED	
Docket Number:	18-IEPR-05
Project Title:	Climate Adaptation and Resiliency
TN #:	224358
Document Title:	Climate Adaptation and Resilience General Plans
Description:	Presentation by Michael McCormick, CA Governor's Office of Planning & Research, at the August 2 Joint Agency Workshop on Climate Adaptation and Resiliency
Filer:	Denise Costa
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	8/1/2018 7:31:26 PM
Docketed Date:	8/2/2018



2018 IEPR Update

Joint Agency Workshop: Climate Adaptation and Resilience General Plans



Michael McCormick, AICP
California Governor's Office of Planning and Research



General Plan Guidelines (2017 Update)



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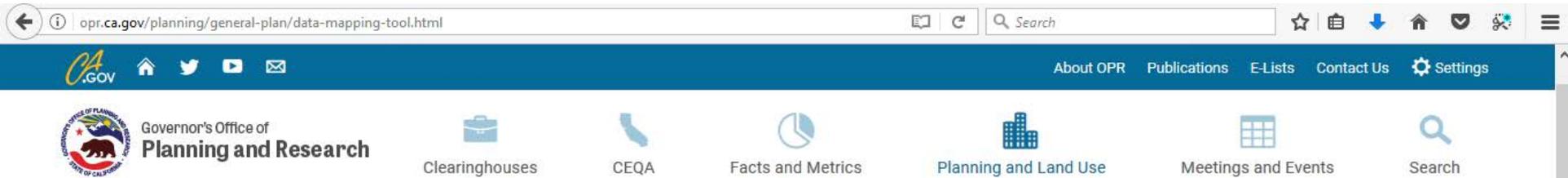
Appendix E:
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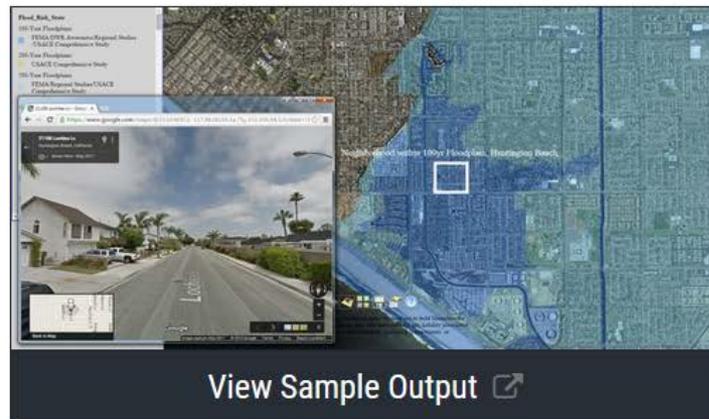
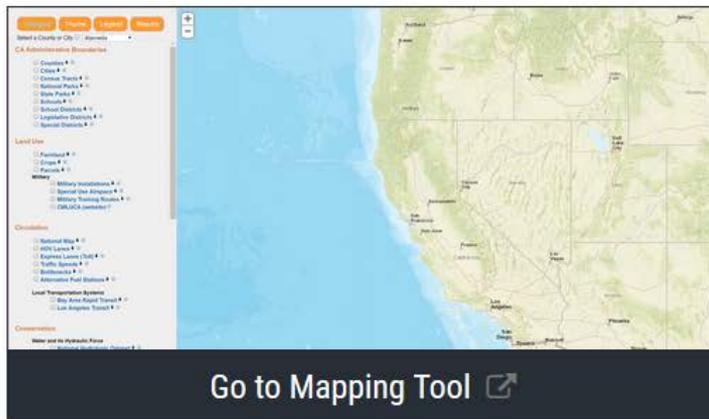


General Plan Guidelines (2017 Update)



General Plan Guidelines Data Mapping Tool

The General Plan Guidelines Online Mapping tool draws data sets from multiple sources, allowing users to incorporate local, regional, and state wide data as available into local general plans without cost. Additional data will be added as it becomes available.





4

Safety Element

Introduction

The goal of the safety element is to reduce the potential short and long-term risk of death, injuries, property damage, and economic and social dislocation resulting from fires, floods, droughts, earthquakes, landslides, climate change, and other hazards. Other locally relevant safety issues, such as airport land use, emergency response, hazardous materials spills, and crime reduction, may also be included. Some local jurisdictions have chosen to incorporate their hazardous waste management plans into their safety elements.

The safety element directly relates to topics also mandated in the (1) land use, (2) conservation, (3) environmental justice and (4) open-space elements, as development plans must adequately account for public safety considerations and open space for public health and ecological benefits often incorporate areas of increased hazard risk. The safety element must identify hazards and hazard abatement provisions to guide local decisions related to zoning, subdivisions, and entitlement permits. The safety element should also contain general hazard and risk reduction strategies complementary with those of the [Local Hazard Mitigation Plan \(LHMP\)](#). Ideally, the LHMP will be incorporated into the safety element as outlined below in accordance with provision of [Assembly Bill 2140, General Plans: Safety Element \(Hancock, 2006\)](#) (Gov. Code § 65302.6).

The recent introduction of climate risk to the discussion of the safety element, adds a focus on longer term preparation of a community for a changing climate. Policies in a safety element should identify hazards and emergency response priorities, as well as mitigation through avoidance of hazards by new projects and reduction of risk in developed areas. As California confronts mounting [climate change](#) impacts, local governments are now required, in accordance with [Senate Bill 379, Land Use: General Plan: Safety Element \(Jackson, 2015\)](#) to include a climate change vulnerability assessment, measures to address vulnerabilities, and comprehensive hazard mitigation and emergency response strategy as explained further in this section (Gov. Code § 65302(g)(4)). Policies may include methods of minimizing risks, as well as ways to minimize economic

Government Code 65302(g):

- (g) (1) A safety element for the protection of the community from any unreasonable risks associated with the effects of seismically induced surface rupture, ground shaking, ground failure, tsunami seiche, and dam failure; slope instability leading to mudslides and landslides; subsidence; liquefaction; and other seismic hazards identified pursuant to Chapter 7.8 (commencing with Section 2690) of Division 2 of the Public Resources Code, and other geologic hazards known to the

Safety

- Updates and incorporation of legislation and TAs
- Better coordination with LHMPs (AB2140)
- New section on Climate Adaptation and Resilience, as per SB 379 (2015)
- Internal and external links to related elements and considerations
- Direct coordination with other resources, including OES resources, Cal-Adapt, Adaptation Planning Guide, ICARP



Safety Element – Fire Safety

- Links to drought and climate change;
- Land use and other general plan elements affected;
- Wildland and Urban Interface;
- Regional water planning;
- Drought toolkit and other State resources;
- Fire Hazard Planning General Plan Technical Advice Series (2015)
 - Land use, management, and siting;
 - References, data, guidance, programs, and support;
 - Goal and policy examples;
 - Other considerations.



Safety Element - Adaptation

- Climate change adaptation is now required in Safety Elements
 - Safety element is the statutory “home”
 - Supports incorporation in to other areas
 - Encourages cross-linkages and co-benefits
- Some distinct actions:
 - Review existing plans (gap analysis)
 - Assess community vulnerability
 - Create a set of goals, policies and objectives
 - Create a set of “feasible” implementation measures
 - Implement measures
- Timeline considerations:
 - Update at the next LHMP update OR by 1/2022 if no LHMP;
 - Using an adaptation plan, climate action plan or general plan;
 - Suggestion to use the Housing Element to align updates (like fire and flood);
 - Leverage State funding opportunities.



Cal-Adapt.org and the Adaptation Planning Guide

The screenshot shows the Cal-Adapt website at the URL beta.cal-adapt.org. The page features a dark navigation bar with the 'cal-adapt' logo and links for Tools, Data, Resources, Blog, About, and Help. The main content area has a background image of a snowy mountain range. The headline reads 'Exploring California's Climate Change Research' and includes a sub-headline: 'Cal-Adapt provides a view of how climate change might affect California. Find tools, data, and resources to develop adaptation plans and build applications.' Below this, there are five interactive buttons: 'Annual Averages Extreme Heat' (yellow sun icon), 'Annual Averages' (blue sun icon), 'Annual Averages' (blue water droplets icon), 'Snowpack' (blue snowflake icon), and a partially visible 'S' button. At the bottom of the screenshot, there are three buttons: 'Climate Tools', 'Download Data', and 'Fin'.

The cover of the 'CALIFORNIA ADAPTATION PLANNING GUIDE' features a light blue background with a white grid pattern. The title is in large, bold, white capital letters. Below the title, there are three small images: a group of people in a meeting, a person working in a field, and a landscape with a fire. At the bottom, the text 'PLANNING FOR ADAPTIVE COMMUNITIES' is written in large, bold, blue capital letters. Logos for Cal EMA, the State of California, and FEMA are visible in the bottom right corner.



Data requirements: Vulnerability

- **Assets, resources and populations that are sensitive to various climate change impacts;**
 - Local, regional, state data (MPOs, LAFCOs, Counties, etc)
- **Current status of climate change preparedness;**
- **Historical data** on natural events and hazards;
- **Vulnerability** maps and areas that have **repetitive loss;**
- Existing and planned **development in at-risk areas;**
- **Protection of public health, safety, and the environment.**



Goals, Measures, Implementation

- Identify feasible approaches to reducing risk with **new land use** decisions;
- Identify the location of **at-risk and resilient critical facilities**;
- Identify **how buildings and development can be made resilient**;
- Identify an approach to **working with local, regional, state, and federal agencies**;
- Identify **natural infrastructure** options for use with adaptation projects;
- Identify how to **incorporate adaptation measures in to proposed development**.



Local Hazard Mitigation Plans

State Hazard Mitigation Plan Consistency

SB 379

Requires inclusion of climate change adaptation strategies into Safety Element of General Plans. Through consistency with SHMP Climate is also encouraged. *Funding carrot – HMGP and CRMAs.*

AB 2140

Encourages adoption of LHMPs into GP Safety Element (occurs after LHMP approval). *Funding carrot for jurisdictions is increased State cost share for CDAA (Public Assistance).*

SB 1241

Revises safety element requirements of GPs to address the risk of fire SRAs and VHFHSZs. *Information in LHMPs can be used to fulfill requirement.*



Adaptation Clearinghouse

www.resilientca.org



This version of the site is in beta. Please use [this form](#) to provide feedback.

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Adaptation Clearinghouse

Explore the clearinghouse database to find resources on climate adaptation and resiliency efforts in California

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California Adaptation Forum



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The 3rd California Adaptation Forum is coming to Sacramento!
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Partnerships



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CivicSpark

CivicSpark is Governor Brown's AmeriCorps program dedicated to building capacity for local governments to address climate change.



Alliance of Regional Collaboratives for Climate Adaptation (ARCCA)

ARCCA is a network of regional collaboratives from across California working to advance adaptation statewide.



Under2 MOU

The Under2 Coalition's shared goal of limiting greenhouse gas emissions to 2 tons per capita, or 80-95% below 1990 level by 2050.



Ongoing Efforts

- Focused workshops and technical assistance on request;
- Collection of case studies – ICARP Adaptation Clearinghouse;
- Partnership with CivicSpark, ARCCA, others to pilot plans, policies, and programs;
- Integration of GP requirements into base requirements for grants and funding from the State;
- Ongoing improvement in data, guidance, and alignment;
- Update to the Adaptation Planning Guide;
- Ongoing updates to Cal-Adapt.org and ongoing research;
- Contact Michael.McCormick@opr.ca.gov for more information.