

# RECOMMENDATIONS IN THE SAFEGUARDING CALIFORNIA PLAN: 2018 UPDATE

## Principles to Safeguard California

- Principle 1: Consider climate change in all functions of government.
- Principle 2: Partner with California’s most vulnerable populations to increase equity and resilience through investments, planning, research, and education.
- Principle 3: Support continued climate research and data tools.
- Principle 4: Identify significant and sustainable funding sources to reduce climate risks, harm to people, and disaster spending.
- Principle 5: Prioritize natural infrastructure solutions build climate preparedness, reduce greenhouse gas emissions, and produce other multiple benefits.
- Principle 6: Promote collaborative adaptation processes with federal, local and regional government partners.
- Principle 7: Increase investment in climate change vulnerability assessments of critical built infrastructure systems.

## Climate Justice Principles for Safeguarding California

- Principle 1: Actively engage, educate, and partner with communities to enable early, continuous, and meaningful participation in adaptation initiatives.
- Principle 2: Identify the most vulnerable communities to climate change to prioritize initiatives and build grassroots capacity.
- Principle 3: Support and coordinate adaptation efforts across jurisdictions and policy areas to maximize community resilience.
- Principle 4: Promote holistic approaches to climate adaptation that maximize co-benefits and economic development.
- Principle 5: Make equity an integral consideration for climate research.

## Emergency Management

- Recommendation EM-1: Employ research and deploy tools and data to demonstrate how climate change will affect all phases of emergency management and identify how climate change exacerbates factors and existing conditions that impact emergencies and disasters.
- Recommendation EM-2: Enhance preparedness and coordination through ad hoc or recurring advisory bodies to address climate change impacts and inform emergency management policy.
- Recommendation EM-3: Incorporate climate considerations into emergency planning efforts at all levels.
- Recommendation EM-4: Identify access and functional needs communities exposed to greater risks from climate impacts and work collaboratively to build community resilience.

## Energy

- Recommendation E-1: Continue to support climate research for the energy sector to better inform climate adaptation and mitigation strategies.
- Recommendation E-2: Use common climate scenarios in all energy research and planning, and work to help standardize climate scenarios across state government planning and investment.

- Recommendation E-3: Continue incorporating implications of climate change into all energy sector planning and decision-making.
- Recommendation E-4: Support local adaptation planning efforts and increase outreach about available analytical tools.
- Recommendation E-5: Investigate means to provide long-term support for Cal-Adapt advancement, maintenance, and expansion.
- Recommendation E-6: Increase climate resiliency in low-income and disadvantaged communities.

## Land Use and Community Development

- Recommendation L-1: Develop innovative governance models and public engagement strategies to engage residents, especially vulnerable and disadvantaged communities, to be sustainable, equitable, and adaptable.
- Recommendation L-2: Provide technical support, guidance, and capacity building to implement climate adaptation initiatives in local, regional and state governments and communities.
- Recommendation L-3: Coordinate state laws, regulations, guidelines and policies to promote climate resilience and hazard avoidance and mitigation through local, regional and state planning.
- Recommendation L-4: Integrate economic development initiatives with programs designed to bolster resilience.
- Recommendation L-5: Ensure a coordinated and robust strategy is implemented across state, regional and local governments to the state’s most vulnerable populations and disadvantaged communities.
- Recommendation L-6: Provide financial assistance support to promote investment in climate adaptation through land use and community development.

## Public Health

- Recommendation P-1: Promote community resilience and health equity by improving underlying economic, environmental, social, and living conditions.
- Recommendation P-2: Educate, empower, and engage Californians to reduce vulnerability to climate changes through mitigation and adaptation.
- Recommendation P-3: Promote mitigation and adaptation strategies with public health and equity benefits, and assure they do not have unintended consequences for health equity.
- Recommendation P-4: Establish, improve, and maintain robust surveillance mechanisms.
- Recommendation P-5: Improve public health preparedness and emergency response.
- Recommendation P-6: Collaborate with multiple agencies and organizations at local, state and federal levels.
- Recommendation P-7: Identify and assess impacts, conduct research, and use the best available data to inform policies and programs that protect health and equity.

## Transportation

- Recommendation T-1: Understand climate trends that impact transportation.
- Recommendation T-2: Complete analysis of vulnerability assessments, and prepare adaptation plans to address identified vulnerabilities.
- Recommendation T-3: Inform the transportation decision-making processes.
- Recommendation T-4: Improve transportation system resiliency.

- Recommendation T-5: Maintain and enhance information sharing and education.

## Agriculture

- Recommendation A-1: Advance water management and energy efficiency in agricultural operations.
- Recommendation A-2: Build soil organic matter on farms and ranches to achieve multiple benefits.
- Recommendation A-3: Support dairies in climate smart management practices.
- Recommendation A-4: Increase farmland conservation.
- Recommendation A-5: Grow the Climate Smart Agriculture outreach platform.

## Biodiversity and Habitat

- Recommendation B-1: Strengthen the climate adaptation component of conservation planning efforts at multiple scales.
- Recommendation B-2: Enhance habitat connectivity and protect climate refugia through strategic acquisition and protection activities.
- Recommendation B-3: Increase restoration and enhancement activities to increase climate resiliency of natural and working lands.
- Recommendation B-4: Increase biodiversity monitoring efforts to better understand baseline conditions and make possible the early detection of climate impacts.
- Recommendation B-5: Continue incorporating climate considerations into state investment decision processes related to fish and wildlife conservation.
- Recommendation B-6: Provide educational opportunities to the public and state agency staff regarding climate impacts and adaptation options for ecosystems, fish, wildlife, and plants.

## Forests

- Recommendation F-1: Restore fire as a core ecological process, complemented by fuels reduction, working forests, and thinning to enhance forest health, resilience, and long-term carbon stability.
- Recommendation F-2: Increase reforestation efforts on wildfire and pest-impacted areas and protect forested lands from conversion to non-forest uses.
- Recommendation F-3: Manage forests to support statewide water infrastructure and to protect forested source watersheds.
- Recommendation F-4: Elevate biodiversity considerations in forest restoration and conservation planning efforts.
- Recommendation F-5: Continue investing in urban forestry to enhance the health of current urban forests and expand urban tree canopy statewide.
- Recommendation F-6: Promote wood products markets, particularly innovative utilization of thinned material and other biomass, to support forest-dependent economies and ongoing forest management activities.
- Recommendation F-7: Foster fire-adapted communities through local planning and fire preparedness.
- Recommendation F-8: Ensure that forest monitoring and applied research activities match decision-making needs.

## Oceans and Coasts

- Recommendation O-1: Support planning and adaptation to increase the resilience of coastal communities, infrastructure, development, and other resources and to reduce hazards.
- Recommendation O-2: Design and implement nature-based projects to protect and enhance the adaptive capacity of coastal and marine ecosystems, including beaches and wetlands.
- Recommendation O-3: Develop actionable science that reflects the latest and evolving trends over a range of spatial and temporal scales.
- Recommendation O-4: Continue to assess community and ecosystem vulnerability to climate impacts.
- Recommendation O-5: Provide pathways for meaningful community engagement (such as education and outreach) in coastal decision-making processes.
- Recommendation O-6: Coordinate across agencies and external partners to ensure efficient problem solving and widely communicate resources for ocean and coastal adaptation strategies.

## Water

- Recommendation W-1: Vigorously prepare California for flooding.
- Recommendation W-2: Support regional groundwater management for drought resiliency.
- Recommendation W-3: Diversify local supplies and increase water conservation and use efficiency.
- Recommendation W-4: Reduce Sacramento-San Joaquin Delta climate change vulnerability.
- Recommendation W-5: Prepare California for hotter and drier conditions and improve water storage capacity.
- Recommendation W-6: Address water-related impacts of climate change on vulnerable and disadvantaged populations and cultural resources.
- Recommendation W-7: Continue to mainstream climate considerations into water management through improved understanding of climate risks and tool development.
- Recommendation W-8: Utilize low-impact development and other methods in state and regional storm water permits to restore the natural hydrograph.
- Recommendation W-9: Require closer collaboration and coordination of land use and water planning activities to ensure that each reinforces sustainable development that is resilient to climate changes.
- Recommendation W-10: Protect and restore water resources for important ecosystems.

## Parks, Recreation, and California Culture

- Recommendation PC-1: Augment public access to the coast and coastal recreation while protecting beaches and coastal areas consistent with resource conservation priorities.
- Recommendation PC-2: Increase and improve access to climate-resilient recreation opportunities in inland, mountain, and freshwater regions.
- Recommendation PC-3: Maximize opportunities to connect urban populations to natural spaces through urban parks, wetlands, and river parkways.
- Recommendation PC-4: Understand the scope of climate change impacts to cultural resources and integrate climate change into the management of cultural resources.
- Recommendation PC-5: Incorporate climate change in all California State Park and conservancy planning and decision-making.

- Recommendation PC-6: Engage the public and foster ongoing and diverse partnerships to create a shared commitment to stewardship and to harness complementary skills, capacities, and support.