

Advancing Desalination in California

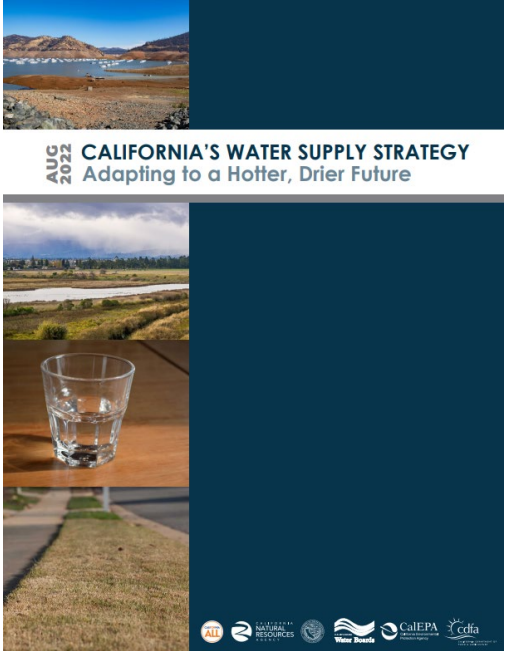


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Desalination = Portfolio Approach to Water Management

- Desalination is NOT a panacea
- But desalination is integral to local water resilience and reliability

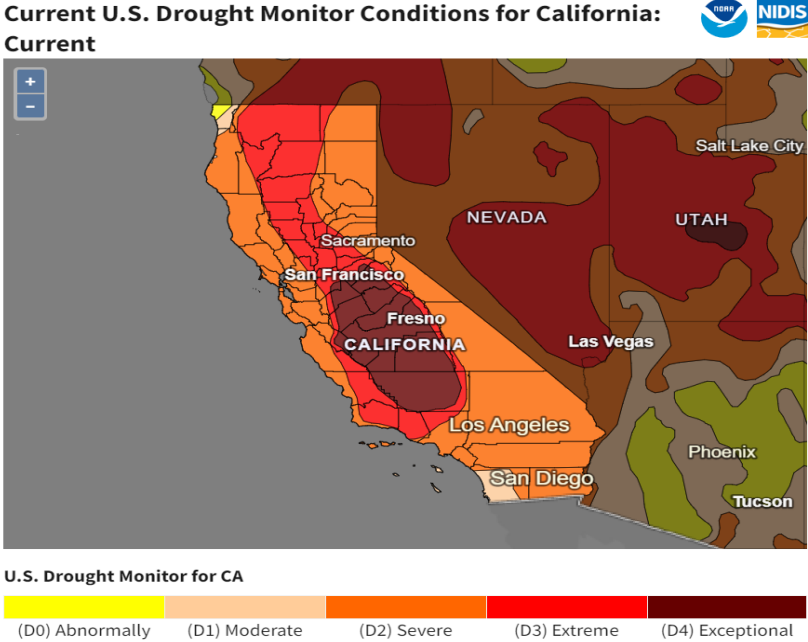
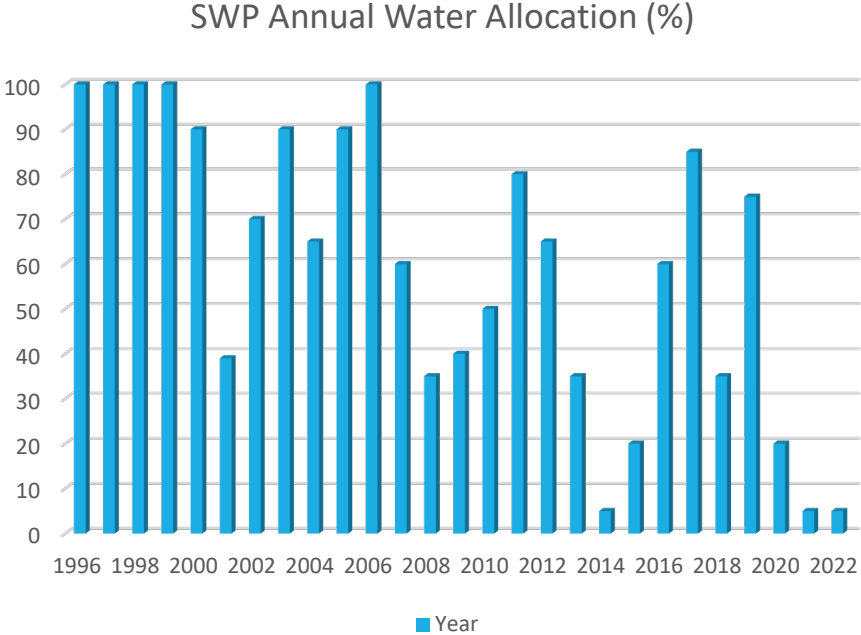


	2030		2040	
Increase Recycled Water	8 MAF		1.8 MAF	
Increase Desal Production	28,000 AF		84,000 AF	
Increase Stormwater Capture	.25 MAF		.5 MAF	
Increase Conservation	.5 MAF	About 5 MAF	.5 MAF	About 7 MAF
SUBTOTAL FOR RECYCLED, DESAL, STORMWATER AND CONSERVATION	1.6 MAF		2.9 MAF	
Expand Storage Above and Below Ground*	3.7 MAF		4 MAF	
Total	4.8 MAF		6.9 MAF	

*Additional storage capacity does not equate to a similar volume of new water supply. MAF – million acre-feet.

- Desalination should be a consideration:
 - Where it makes sense geographically and hydrologically from a water supply alternative standpoint
 - Where it makes sense from a cost/rates standpoint

Desalination = Important Climate Adaptation Strategy



- Desalination is:
 - Locally controlled
 - Drought-proof
 - Reliable
 - Mitigation against community/economic impacts from prolonged drought

The Industry is Tackling Historical Criticisms of Desalination

- **Cost**
 - No remaining “low-hanging fruit” - demand hardening – meld costs to mitigate rates

- **Environmental**
 - Rigorous environmental standards – CA Ocean Plan – mitigation projects

- **Energy**
 - Consumption – carbon footprint - costs



AMENDED IN ASSEMBLY AUGUST 23, 2022
 AMENDED IN ASSEMBLY AUGUST 15, 2022
 AMENDED IN ASSEMBLY JUNE 29, 2022
 AMENDED IN ASSEMBLY JUNE 23, 2022
 AMENDED IN SENATE MAY 19, 2022
 AMENDED IN SENATE MAY 4, 2022
 AMENDED IN SENATE APRIL 7, 2022

SENATE BILL No. 1075

Introduced by Senator Skinner
 (Coauthors: Senators Archuleta, Eggman, Hertzberg, Hueso, Min, and Newman)
 (Coauthor: Assembly Member Holden)

February 15, 2022

An act to add Article 6.8 (commencing with Chapter 2 of Division 1 of Title 6.7 of the Government Code) to the Health and Safety Code, to add Section 25307 to the Public Resources Code, and to amend the Public Utilities Code, relating to energy.

LEGISLATIVE COUNSEL'S DIGEST

SB 1075, as amended, Skinner. Hydrogen: green of greenhouse gases.

(1) The Bergeson-Peace Infrastructure and Economic Development Bank Act establishes the California Infrastructure and Economic Development Bank in the Governor's Office of Business and Economic Development, that is governed by a board of directors. The Bank Act,

“Best available, site, design, technology, and mitigation measures feasible to minimize intake and mortality of all forms of marine life” CA Ocean Plan

(6) An analysis of the potential for opportunities to integrate hydrogen, including green hydrogen, production and application with drinking water supply treatment needs, particularly for advanced treatment water supplies such as desalination, potable reuse, and salt and contaminant removal projects.



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