

for Water Reuse: Trends and Opportunities

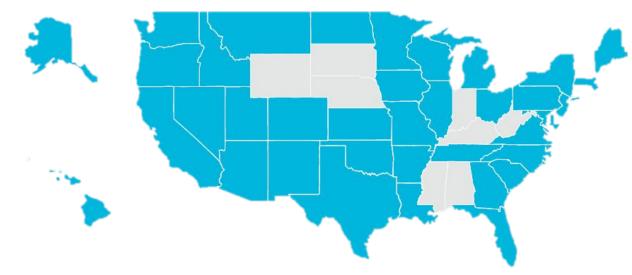
Brenley McKenna

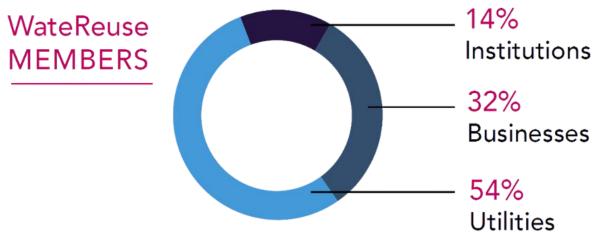
Managing Director,

WateReuse California

WateReuse Association

 WateReuse members in 38 states, operating across all 50 states





WateReuse Association has California Roots:



In 1990, the WateReuse Association (WRA) was established in California:

With the goal of advancing laws, policy, and funding to increase water reuse



WateReuse California is part of WRA as a state section



WRCA works with over 220 water related organizations within California





A Vision for the Future:

To advance water recycling as the cornerstone of a climate- resilient, new water supply for California.

Safe **Practical**

Beneficial



Water Reuse in the News:

LOCAL NEWS

Could recycled water be the answer to California's future droughts?

When conserving water isn't enough, water engineers are looking to reuse water we already have.



Author: Carley Gomez (ABC10)
Published: 7:18 PM PDT April 4, 2024
Updated: 7:18 PM PDT April 4, 2024



'Average is awesome': California pleased with result of critical snowpack survey

After years of swinging extremes, state snowpack is at rare average of 110%, setting up good water savings account for year ahead



♠ The snowpack supplies roughly 30% of California's water as it melts. Photograph: Tayfun Coskun/Anadolu via Getty Images

Recycled Water Key Strategy

- Sets new recycled water goals
- Recognizes need for more state and federal funding
- Created of recycled water "Strike team" to resolve permitting issues
- Essential DPR Regulations by 2023



© CALIFO RNIA'S WATER SUPPLY STRATEGY Adapting to a Hotter, Drier Future



California Goals for Reuse Water

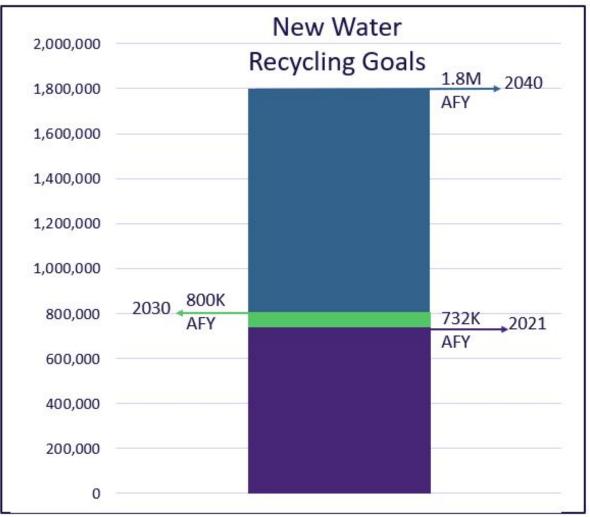


CALIFORNIA'S WATER SUPPLY STRATEGY

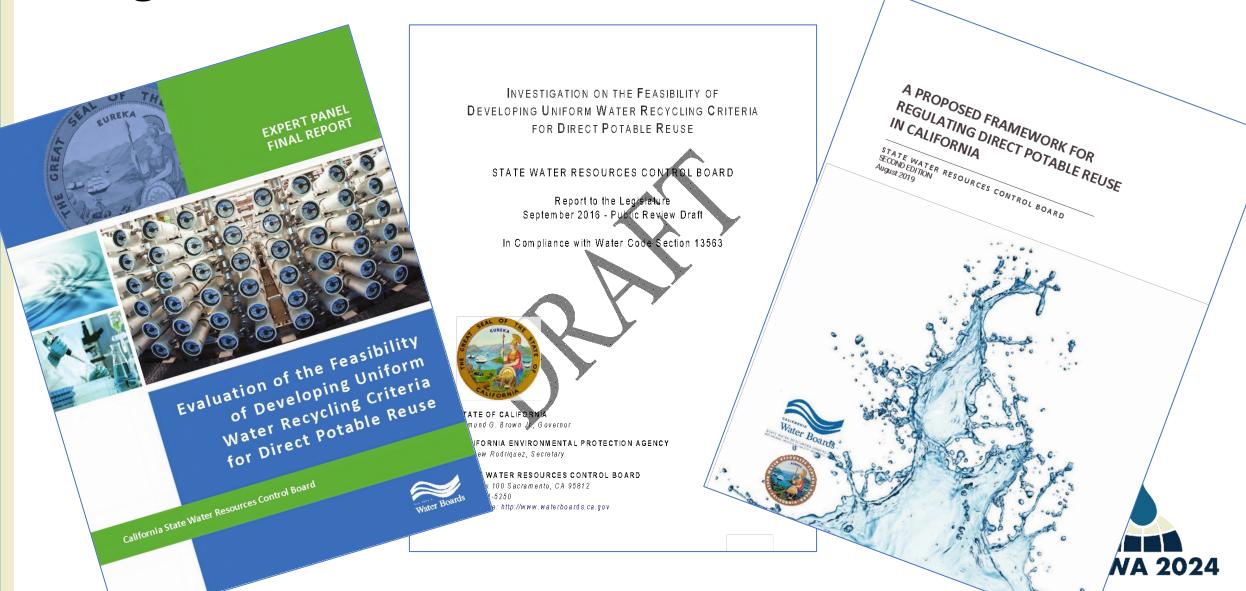
Adapting to a Hotter, Drier Future

New Goals for Recycled Water

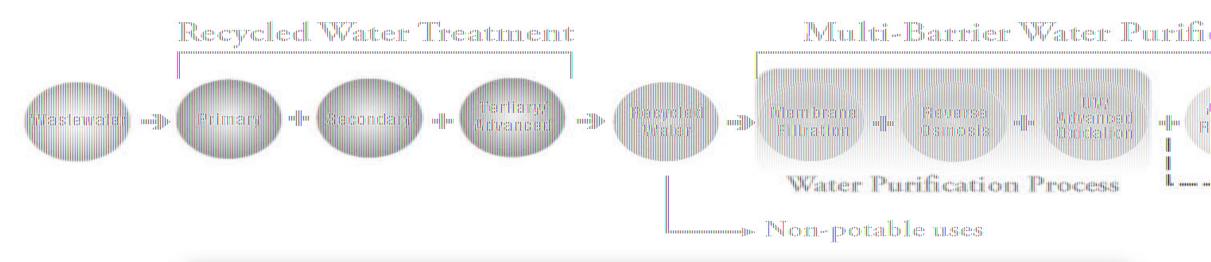
- 800,000 AFY by 2030
- 1.8 MAF by 2040



Regulations Based on Frameworks



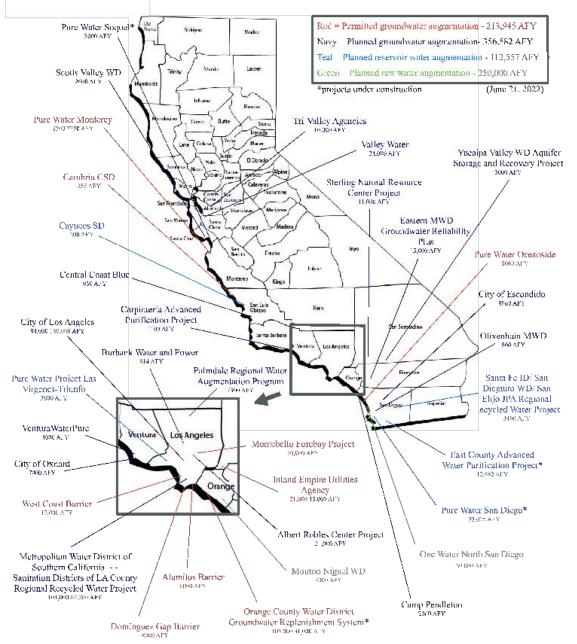
The Technology Works – We know it's possible to purify wastewater



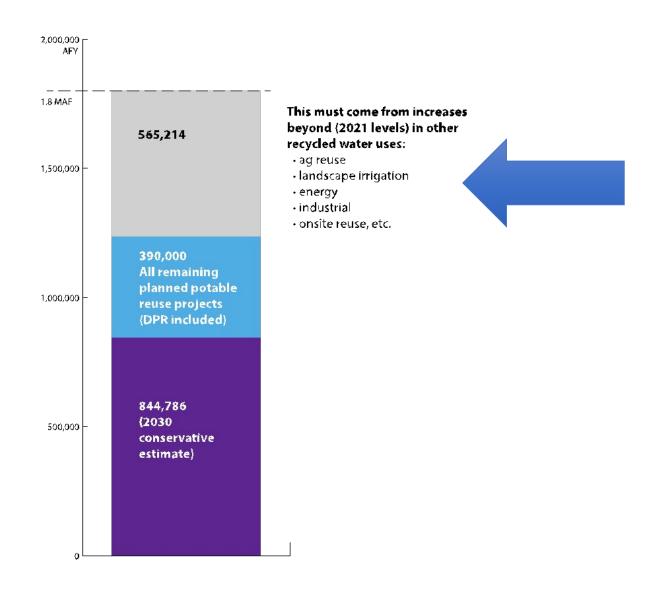




Potable Reuse Projects



Meeting the 2040 1.8 MAF Goal



Growing Environmental Uses of Recycled Water Not Included in Statewide Totals

- **256,000 AF in 2021** for in-stream flows, natural systems, wetlands
- Need to be included in statewide RW totals or at least co-reported



Trends in Water Reuse

Collaboration, Community, & Communication



PureWater SF

Innovative Research Exploring the Possibilities for Purified Water















Pure Water San Diego

- Provide 40% of the City of San Diego's water supply by the end of 2035. Phased multi-year project.
- Drivers: Reduce reliance of imported water supply – water security, local control.
- Reservoir Augmentation with purified recycled water



Pure Water Southern California





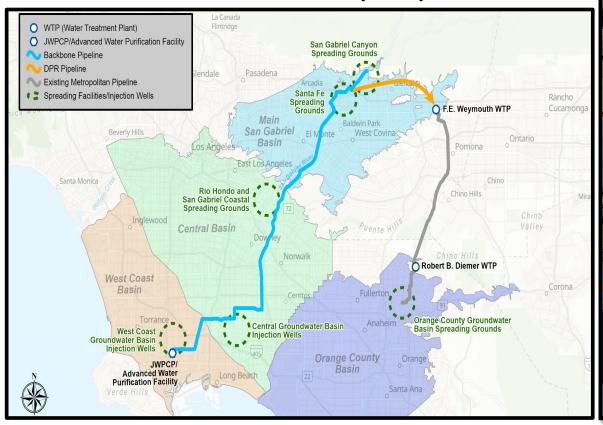




Up to 150 million gallons per day

******** Enough water for over 1.5 million people

- Regional Water Reuse Program
- Climate Resistant Supply
- Program Partnerships
- Advanced Water Purification facility
 - Demonstration Plant, DPR testing
- Hybrid & Phased Reuse
 - IPR/DPR (RWA)
 - Explore TWA -future approach





Our Water, Our Future



S. Cal Regional Recycled Water Program

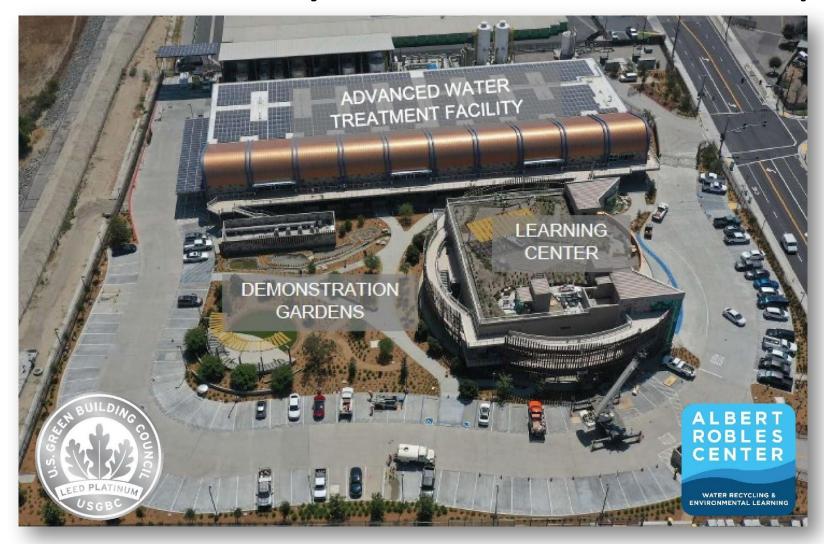
- Partnership Metropolitan Water District of S. Cal. and LA County Sanitation Districts.
- The Advanced Purification Center is demonstration facility that will generate information needed for the potential future construction of a full-scale recycled water plant.
- A full-scale regional recycled water program would produce up to 150 million gallons daily, enough to serve more than 500,000 homes.



Albert Robles Center (ARC): The latest & most advanced



The ARC Facility includes three components





Media visits and showing the future: A kitchen faucet brings new water



















Pure Water Monterey





SAVE THE DATE

September 15-17 Abstracts Due June 10

Questions?



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