

# **U.S.** Water Reuse Drivers



## **Surface Water Scarcity**

**Groundwater Depletion** 

States experience

Saltwater intrusion:

and agriculture

subsidence<sup>‡</sup>

• USGS: 17,000 sq mi, 45

- By 2071, 45% of freshwater basins may be unable to meet demand.<sup>†</sup>
- Western US at highest risk

## **Surface Water Quality**

- Impaired waterways requiring more treatment
- CECs
- Water reuse systems can treat a wide variety of source water



# Regulatory & Policy

- Direct Potable Reuse rules: CO, CA, FL, AZ, beyond
- Discharge limits (FL SB 64)
- Corporate ESG goals



† Earth's Future, 2019. Adaptation to Future Water Shortages in the United States Caused by Population Growth and Climate Change ‡ USGS Water Science School webpage, 2018. Land Subsidence

threatens municipal wells

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# Water Reuse Potential in the United States



- Predicted 2031 US water market:
  - Municipal: \$3.89 B
  - Industrial: \$771 M<sup>†</sup>
- EPA: < 7% of municipal wastewater is recycled<sup>‡</sup>
- EPA: Over 325 BGD processed by cities, farms & industry, or falls as stormwater.<sup>†</sup>

## **US Water Reuse Funding**

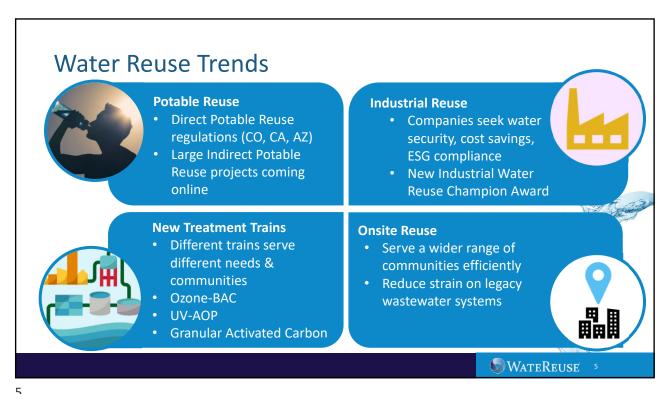
- State Drinking Water and Clean Water Revolving Funds
- Water Infrastructure Finance and Innovation Act (WIFIA)
- BOR: Title XVI, Desal Grants
- EPA Alternative Water Source Grants Pilot Program





† Bluefield Research, 2021. Growth Markets for Water Reuse in the U.S. ‡ U.S. EPA Estimate, 2021 † U.S. EPA, 2020. National Water Reuse Action Plan

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# WateReuse Membership: Utilities, Businesses, Institutions • 493 Members • 20 new members so far in 2024 • 38 States • 10 state and regional sections • Ohio section launching March 2024

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# DPR: El Paso, Texas

- El Paso Water's Advanced Water Purification Facility
- Largest U.S. Direct Potable Reuse project in development (10 MGD)
- Construction Beginning in 2024
- Sept 2022: \$20M grant from Infrastructure Investment & Jobs Act





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## Industrial Water Reuse



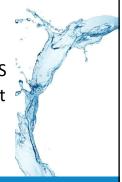
- Increased interest from industrial & commercial sectors
- Congressional Briefing: January 2024
- Global Industrial Water Reuse Champions Award
  - Kimberly-Clark and Carlsberg recognized: October 2023
  - Industrial & Commercial Water Reuse Conference Indian Wells, CA Nov. 19-21, 2024



# WateReuse Federal Advocacy



- Infrastructure Investment and Jobs Act
  - \$1 Billion for water reuse
    - Including SNWA Planning & Feasibility study via USBR
  - Authorized: Alt Water **Source Grants**
- Federal Regulatory Issues: PFAS
- Annual State Regulator Summit
- Water Week Fly-In: April 9, 2024



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# WateReuse: Education & Outreach

- Policy Briefs: Climate Change and Affordability
- Profiles in Reuse
- Market Analysis
- Webcasts
- Educational Videos
- And much more!







