

# WaterReuse California Update

Northern California Chapter Meeting  
February 22, 2013

David W. Smith, PhD  
Managing Director  
WaterReuse California  
dsmith@watereuse.org  
916 669-8401



# Overview

- Direct Potable Reuse Initiative
- Legislative and regulatory
- Upcoming events

# Direct Potable Reuse Initiative

- Foundation and WaterReuse California
- \$6 million+ in three years
  - Member agencies
  - Engineers
  - Foundations
- Activities
  - Research focused on direct potable reuse
  - DPH expert panels per SB 918
  - Education and outreach



# Regulatory and Legislative Goals for 2013

AB 803

1. Revise H&S Code §5411.5 to match unauthorized discharge reporting threshold in Water Code (50k gal)

AB 803

2. Revise obsolete parts of Titles 17 & 22 with legislation to support additional non-potable recycled water project development

AB 145??

3. Build DPH permitting and regulatory program capacity



# Regulatory and Legislative Goals for 2013

## 4. Refine approach to potable reuse project permitting:

- a. Collaborate with SWRCB and DPH to clarify DPR permitting roles
- b. Legislature recognize and SWRCB implement permitting approach for raw water augmentation with ATPW\* that establishes permit compliance point prior to blending of ATPW\* with other waters

Administrative  
Process

AB 803

\*ATPW: advanced treated purified recycled water is higher quality than most other waters used to supply water treatment in Ca



# Other Legislation and Policy Developments

- AB 613 – modifies SB 918 by transferring DPR expert panel responsibility from DPH to NWRI
- AB 145/SB 117 – Move CDPH Drinking Water Division to SWRCB
- Recycled Water Policy amended to include CEC monitoring per expert panel

# Upcoming Events

- WateReuse California Conference, Monterey, March 17-19
- WateReuse Symposium, Denver
- Advanced Treatment Specialty Workshop
- DPR Conference, California location TBD, November

# WaterReuse California Update

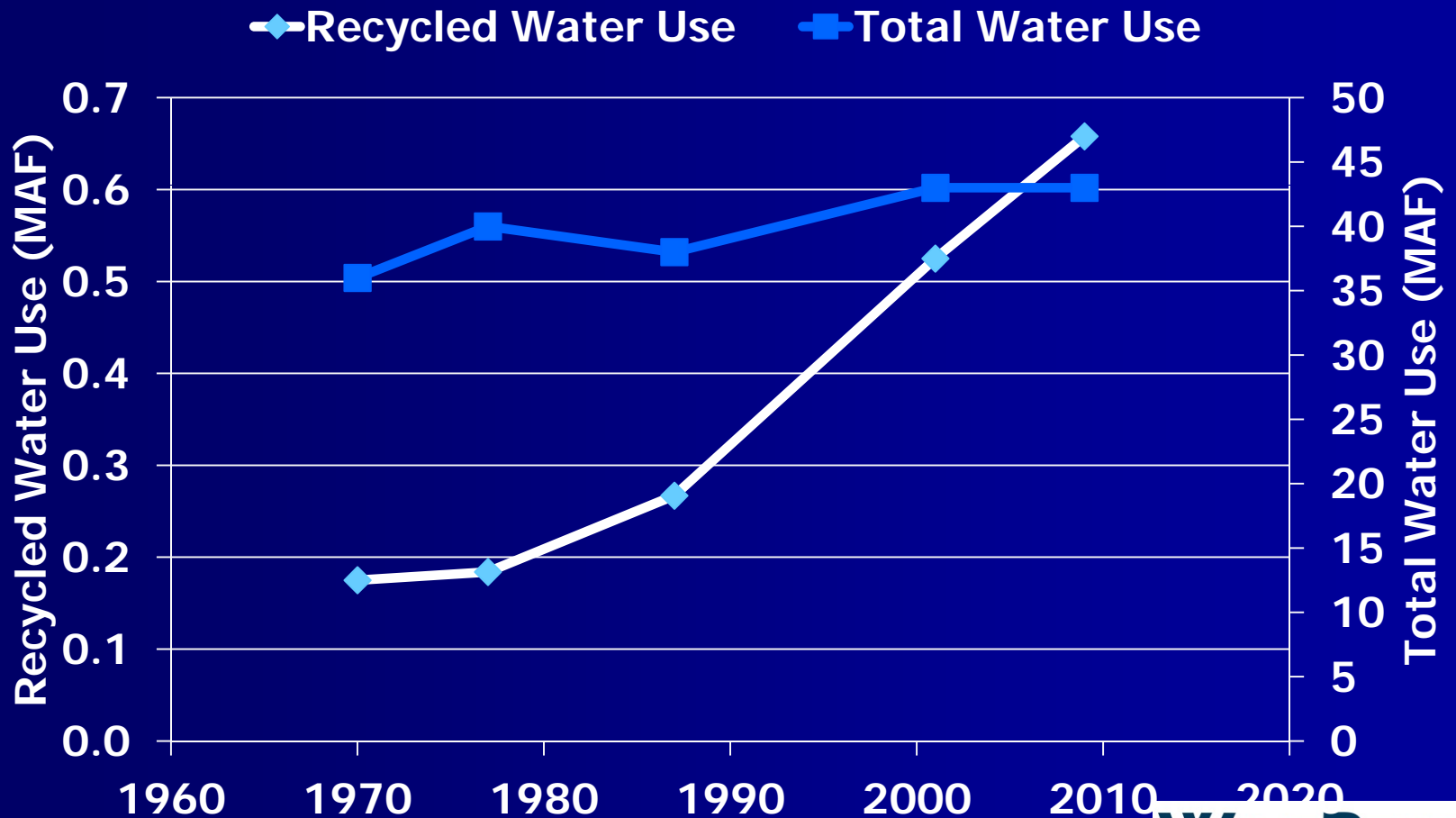
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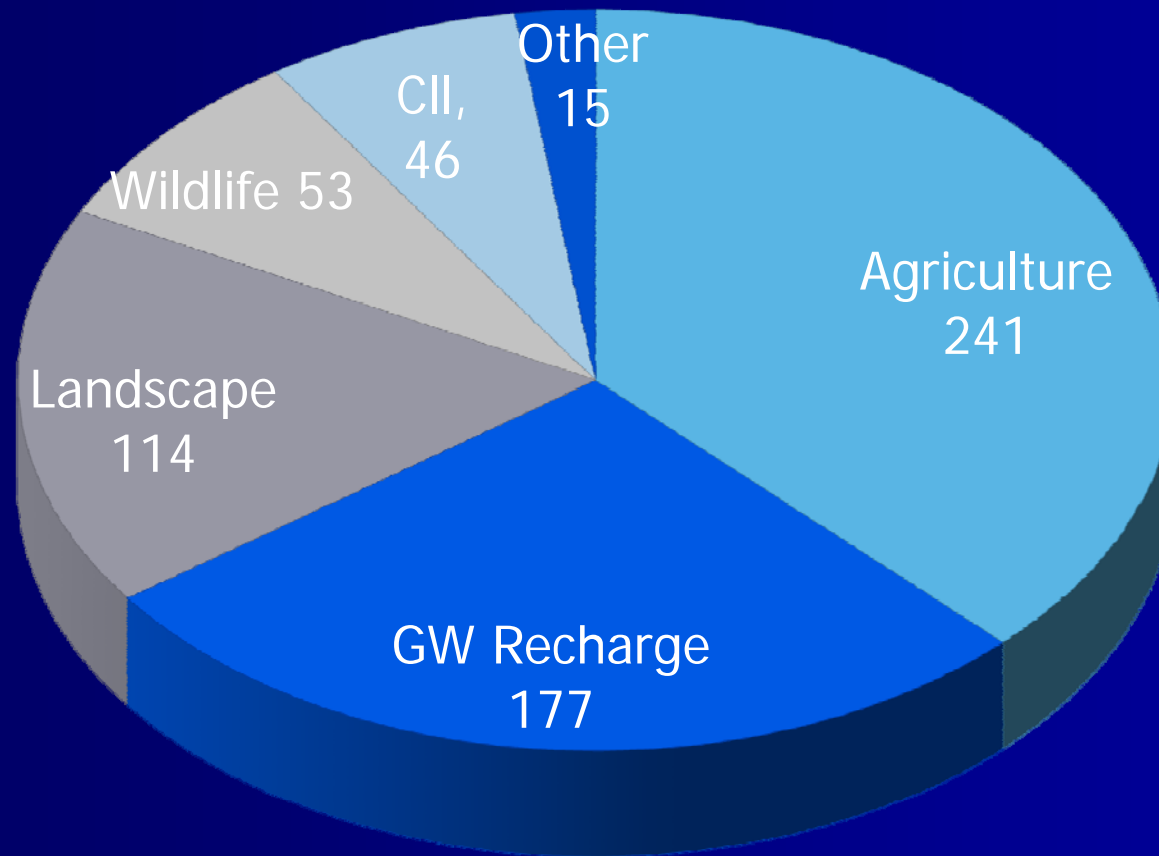
# Recycled Water Increasingly Important Part of California Water Supply



MAF=million acre-feet=326 billion gallons

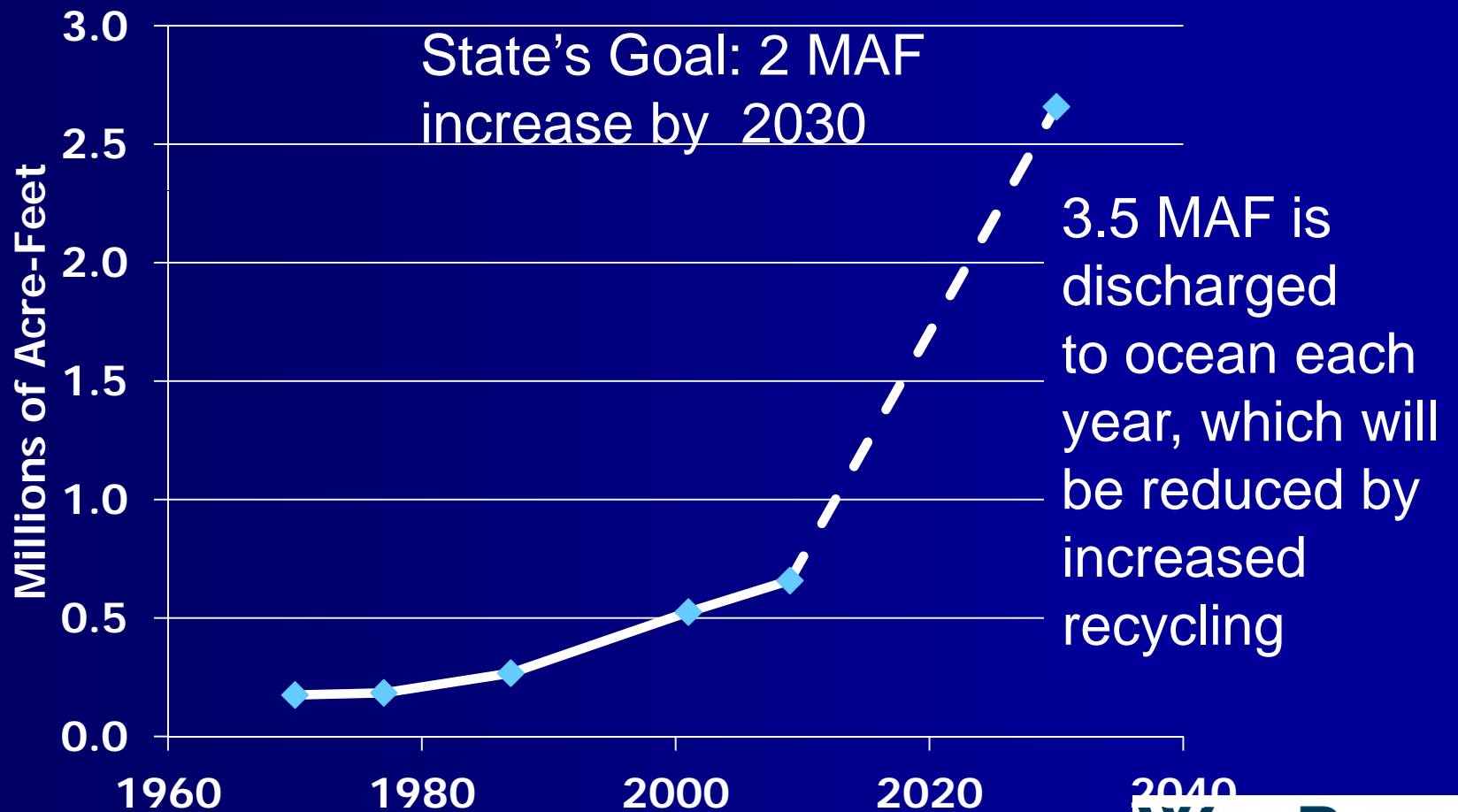


# Diverse Uses of Recycled Water in California



Total = 650,000 acre-feet=211 billion gallons  
From 2009 SWRCB survey of recyclers

# California's Recycling Goal Will Be Met By More Potable And Non-potable Reuse



# Types of Potable Reuse

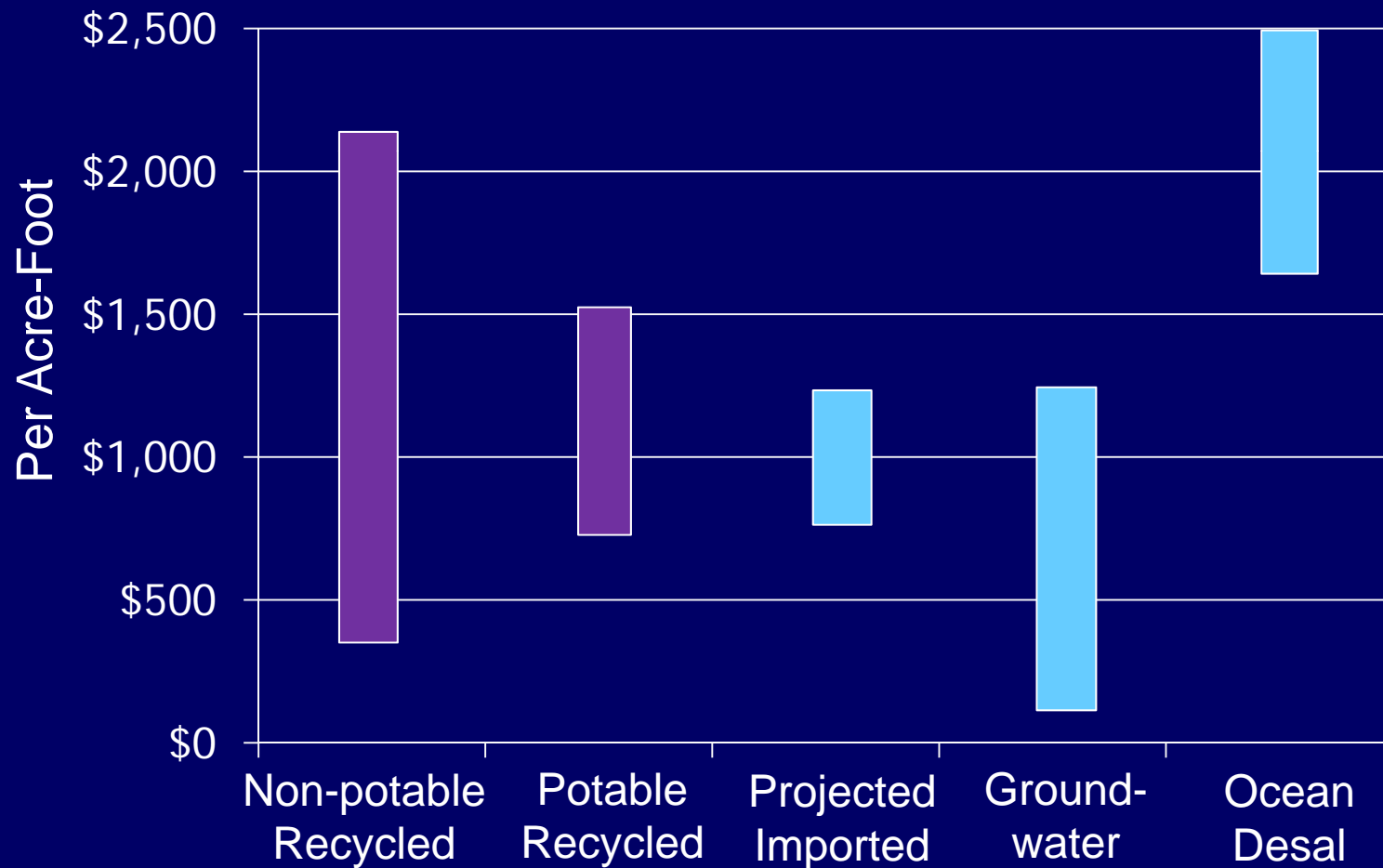
- Indirect - Environmental Buffer
    - Groundwater recharge
    - Reservoir augmentation
  - Direct - Engineered Buffer
    - Raw water augmentation
    - Finished water augmentation
- Draft Regulations
- Feasibility to be evaluated per SB 918

# Potable Reuse Drivers

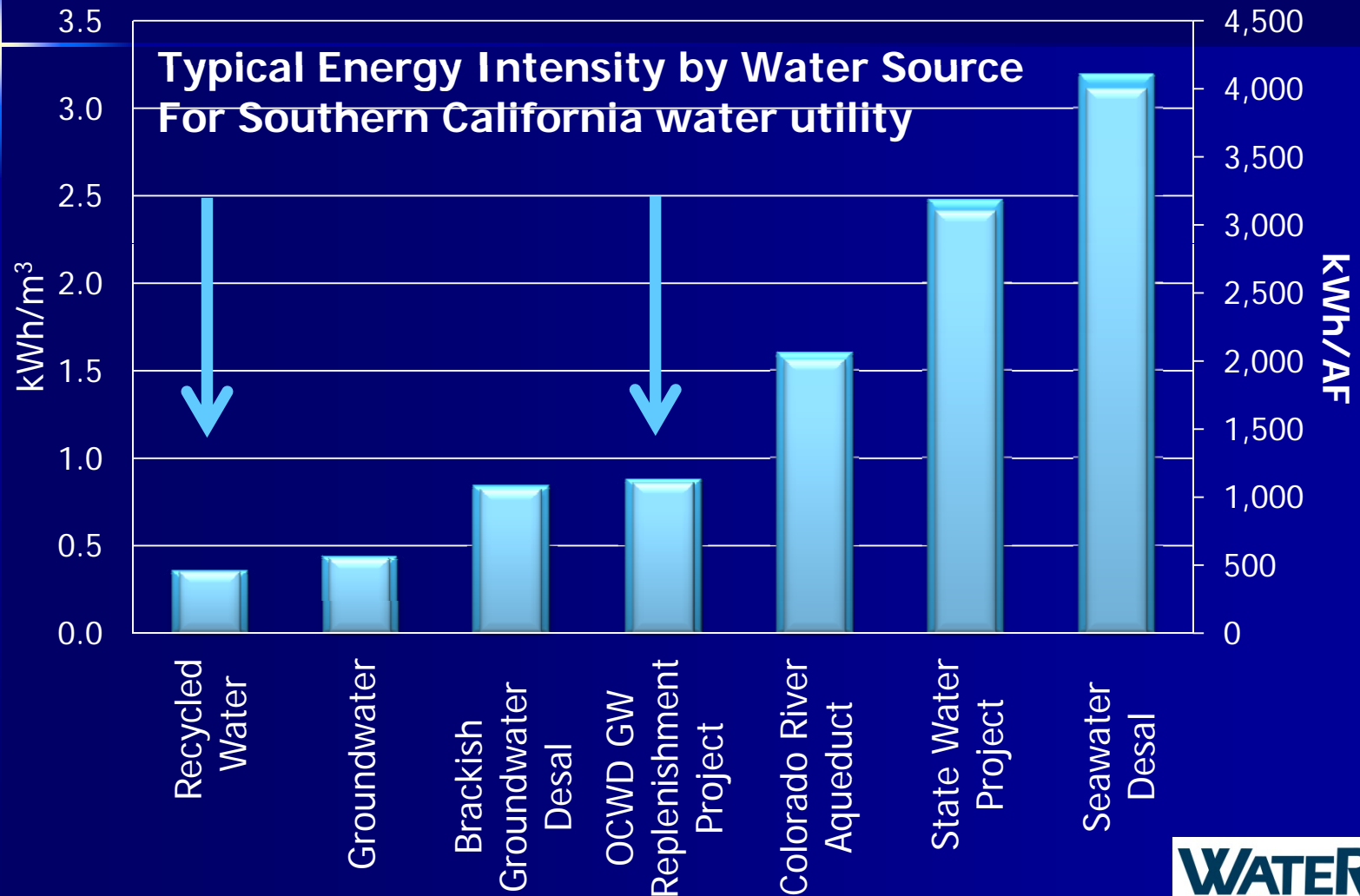
- Recycled water
  - Highly reliable
  - Cost-competitive
  - Uses less energy
  - Lower GHG production
- Other water supplies declining
- Demand is increasing



# Recycled Water Is Cost-Competitive



# Energy Conservation Benefits of Potable Reuse



Source: Pacific Institute analysis regarding SDCWA data

# Potable Reuse in California

- 7 major projects
- First project started in 1962
- 190,000 acre-feet per year
- Over 7 million customers (nearly 20% of California's population) served by utilities with potable reuse
- Very high quality supply
- More projects needed, more reuse options needed



# Additional Information

- State's Recycled Water Policy

[http://www.swrcb.ca.gov/board\\_decisions/adopted\\_orders/resolutions/2009/rs2009\\_0011.pdf](http://www.swrcb.ca.gov/board_decisions/adopted_orders/resolutions/2009/rs2009_0011.pdf)

- Groundwater recharge regulations

<http://www.cdph.ca.gov/healthinfo/environhealth/water/pages/waterrecycling.aspx>

- WaterReuse PR Development Program

<http://www.watereuse.org/sections/california/direct-potable>

- Legislation – SB 918, AB 2398, AB ???

<http://www.watereuse.org/sections/california>

- Research

- <http://dels.nas.edu/Report/Water-Reuse-Potential-Expanding/13303>

- <https://www.watereuse.org/product/direct-potable-reuse-path-forward>

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