



# Water Reliability

*Providing a safe and reliable supply  
of high-quality water to the  
communities we serve.*

WRRC Conference  
University of Arizona  
March 21, 2016

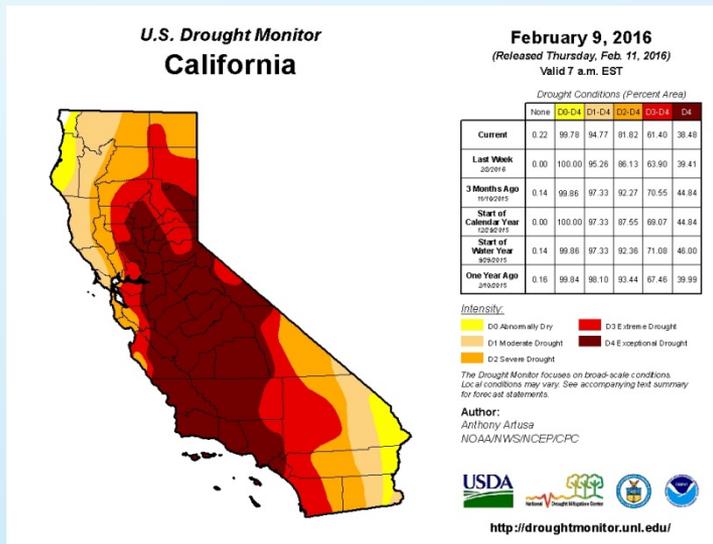
# Colorado River Basin



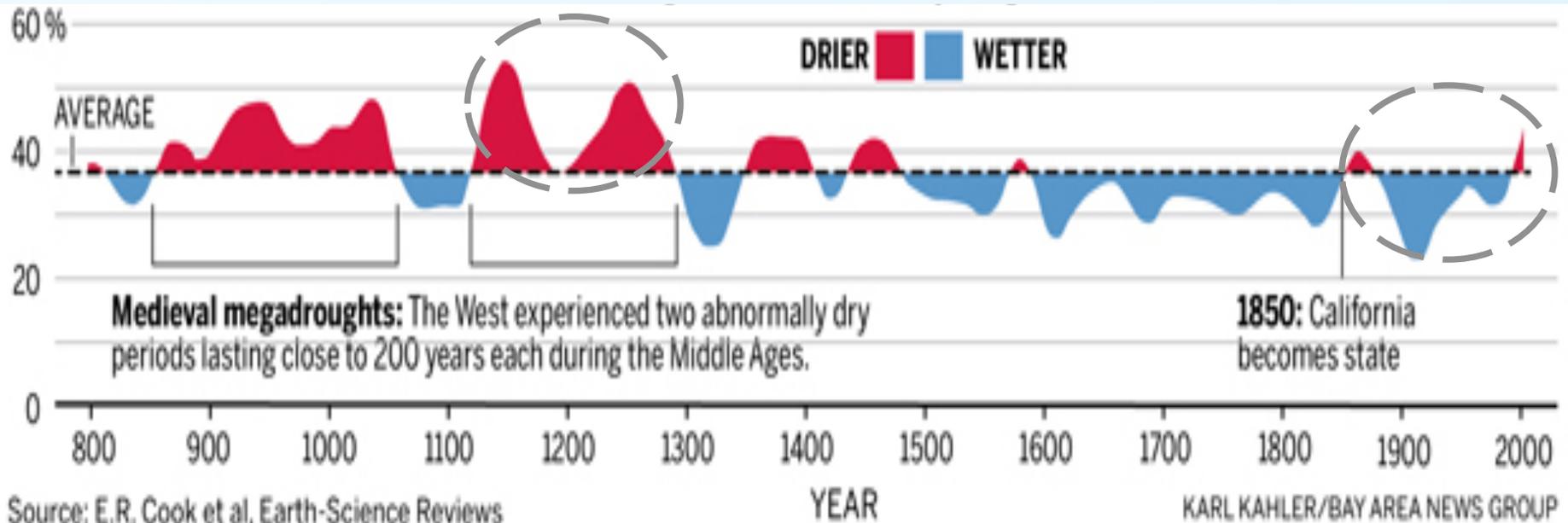
# CURRENT DROUGHT & CHALLENGES



- Warmest Winter on Record
- Lowest Snow Pack Ever Recorded
- Lowest Run Off from LA Aqueduct Ever
- Colorado River Basin Close to Historic Shortage
- Lake Mead at Historical Low Levels
- California's First Ever Mandatory Cut Backs
- Scientific studies predicting a dryer future



# THINKING BEYOND THE CURRENT DROUGHT



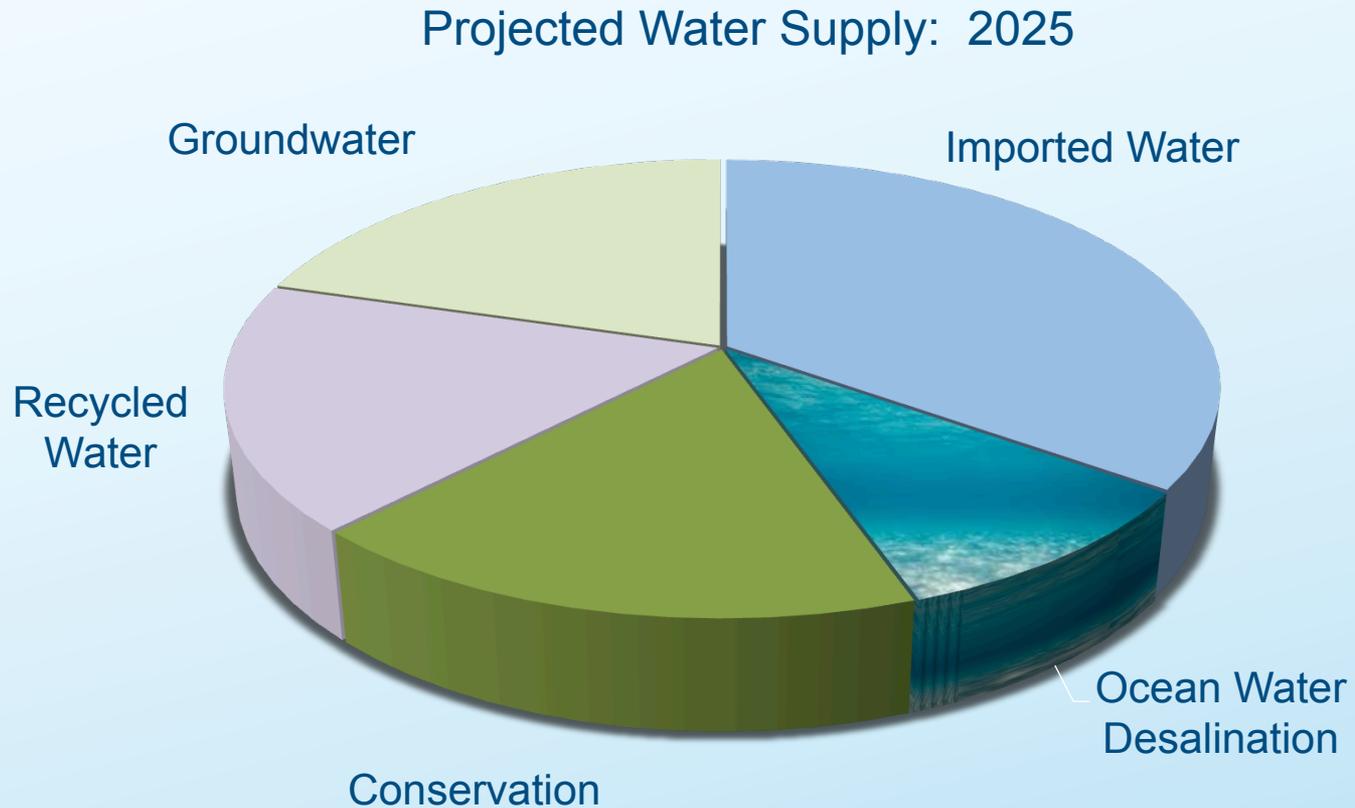


# WATER RELIABILITY

CONSERVATION • RECYCLING • OCEAN WATER DESALINATION

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# WATER RELIABILITY THROUGH SUPPLY DIVERSIFICATION



# CONSERVATION PROGRAMS



Distributed over  
**300,000** water-saving  
devices



Conservation  
programs receive  
**300%** return on  
investments for  
our customers



Conserved more  
than **3 billion**  
gallons of imported  
water, equivalent to  
20,000 households

# WATER RECYCLING



Edward C. Little Water Recycling Facility,  
El Segundo, Calif.

Built in **1995**

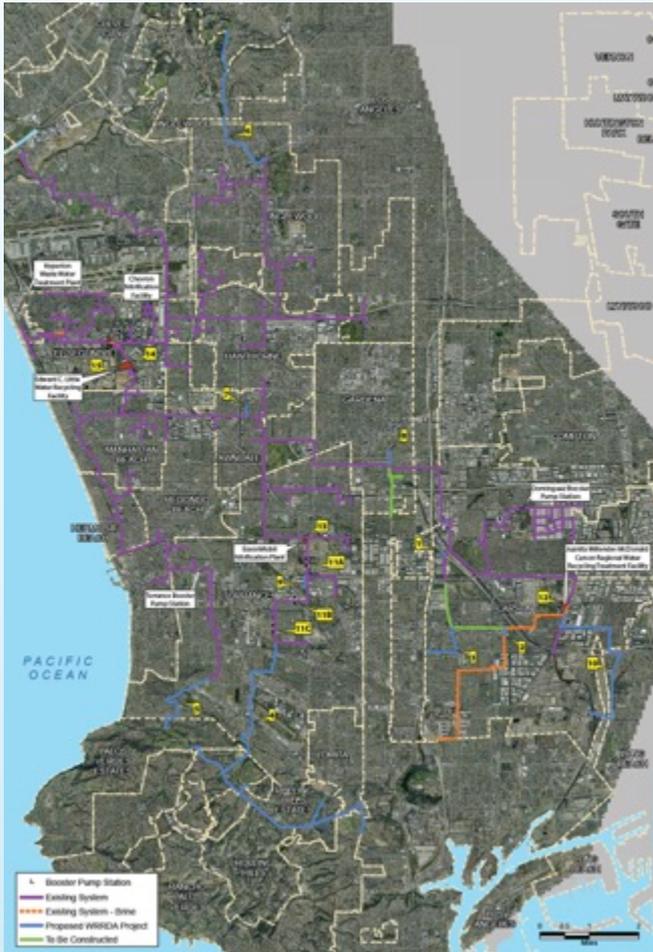
Produced more than **165 billion gallons** of non-potable recycled water – conserving enough potable water to serve a city the size of LA for a year

Over **13,000** annual visitors

Will continue to **maximize and expand** our recycling programs



# RECYCLED WATER DISTRIBUTION



~100 miles of recycled water pipeline

~300 sites

Invested **\$600 million** in water recycling and conservation projects

**State-of-the-art** water recycling facility and 3 satellite facilities

**5 “designer” waters** with a 6<sup>th</sup> coming soon



# OUR 5 DESIGNER WATERS

1



Irrigation

2



Cooling Towers

3



Low Pressure Boilers

4



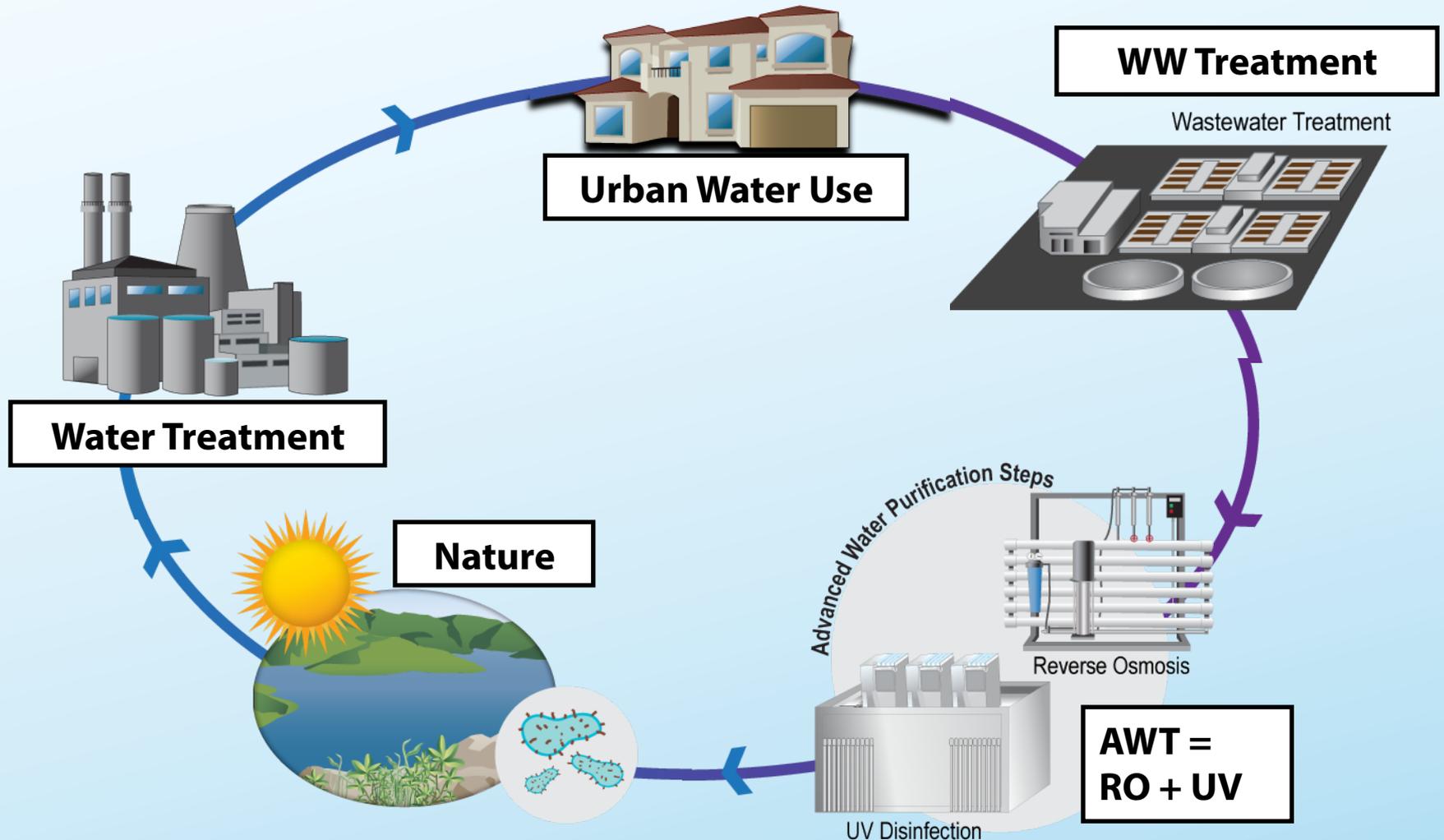
High Pressure Boilers

5

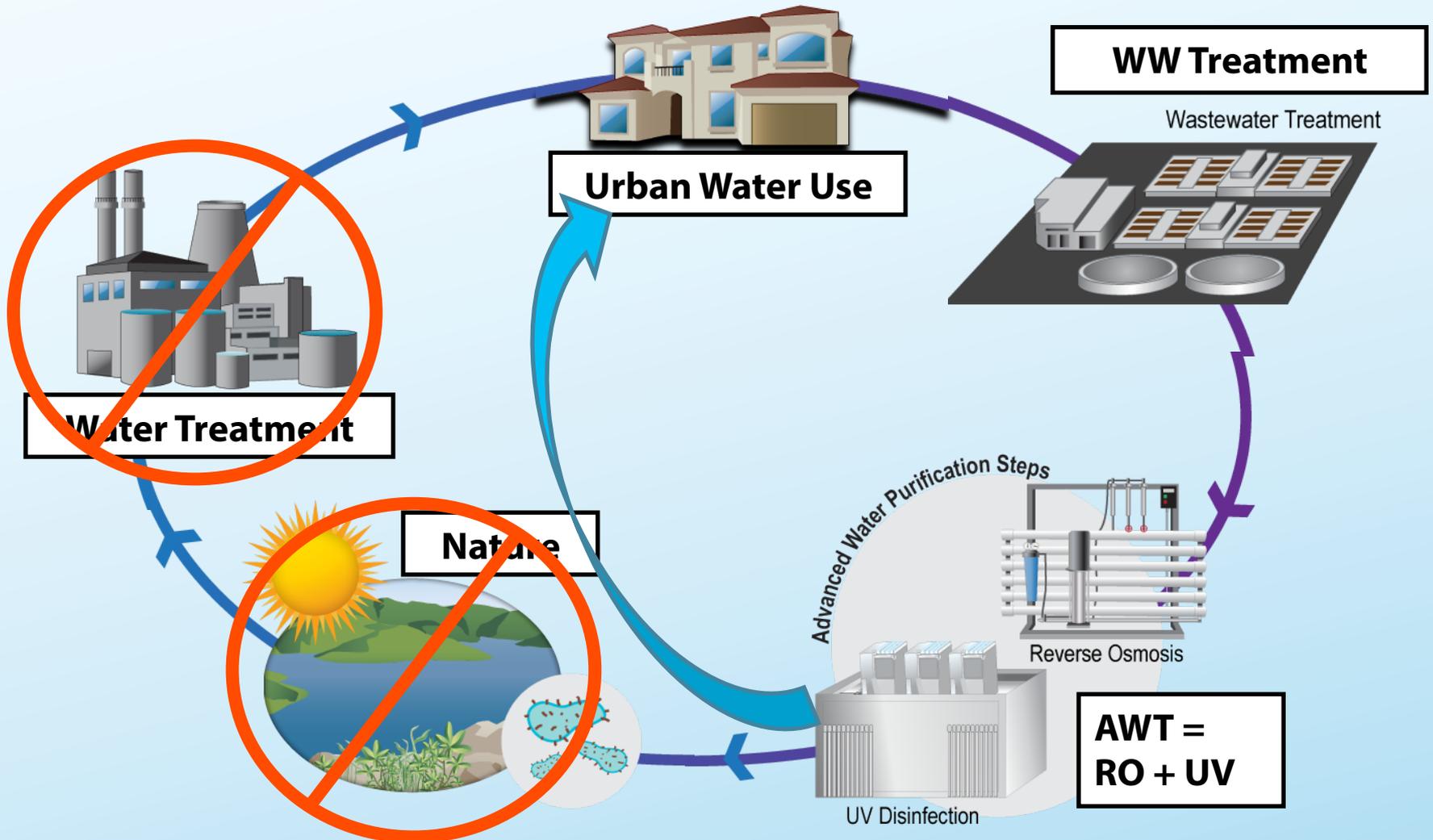


Groundwater Replenishment

# INDIRECT POTABLE REUSE CONCEPT



# DIRECT POTABLE REUSE CONCEPT



# OCEAN WATER DESALINATION EXPLORATION



New, local, reliable, drought-proof supply of **drinking** water

Part of **Governor 's California Water Action Plan**



Meet and surpass the **most environmentally protective regulations** in the world

**Carbon neutral** and pursue renewable energy sources



**Cost competitive with recycled water** program

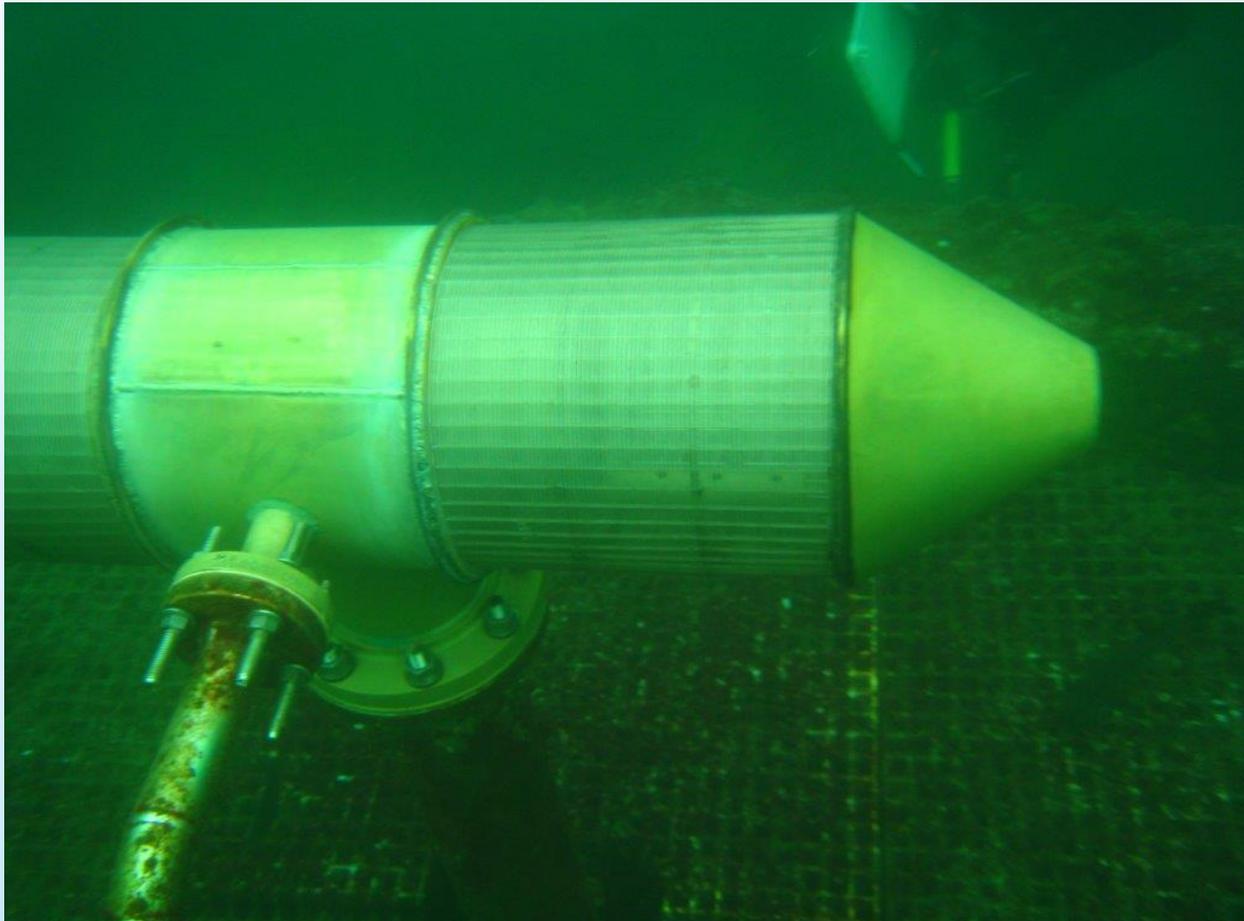
74% of **voters in the District support** desalination



**Environmental Impact Report (EIR)** process in progress

# SAFE INTAKE

*Current passive wedge wire screens proven to protect 100% of adult and juvenile marine life and most, if not all, mature larvae*



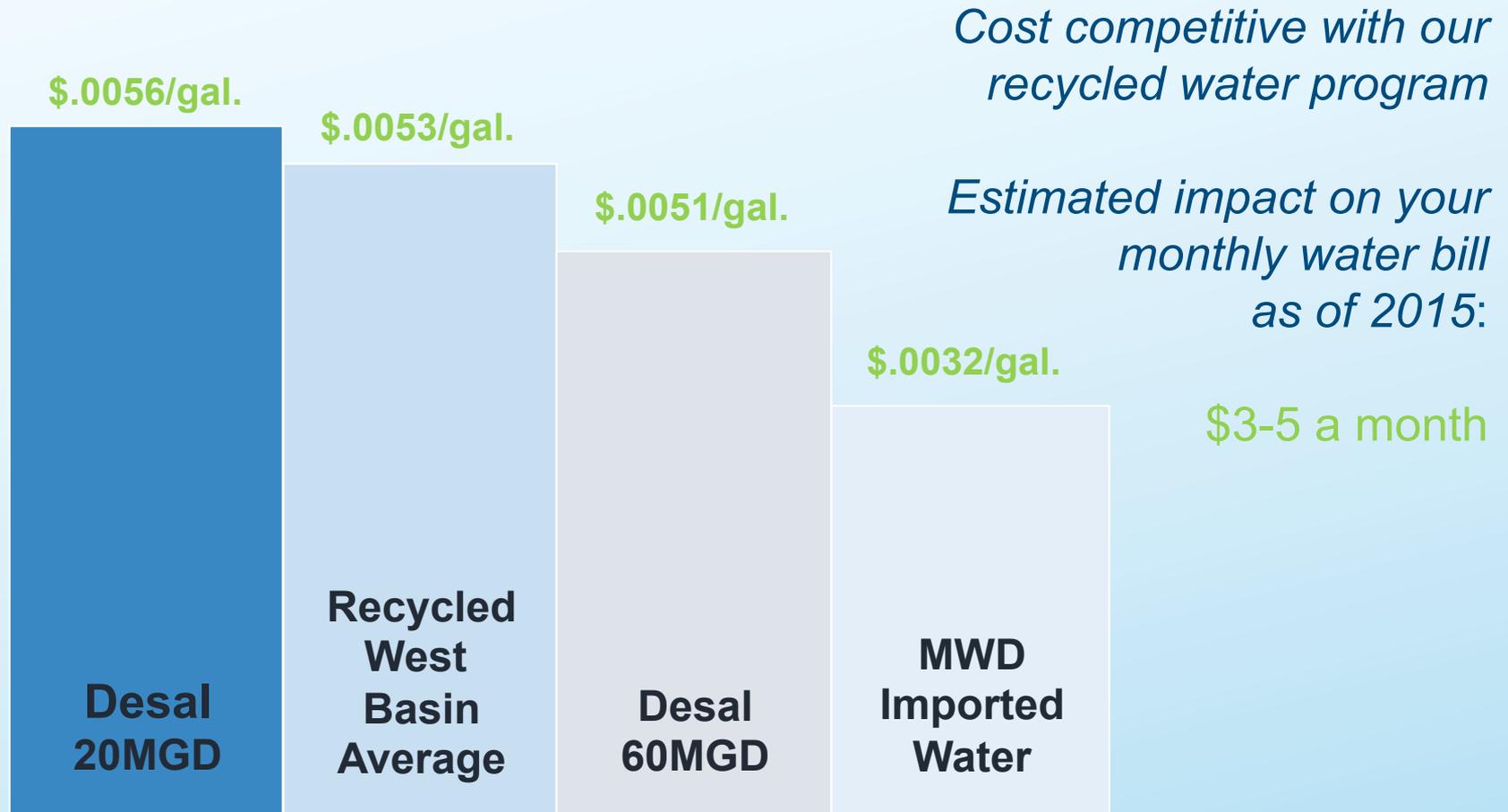
# SAFE DISCHARGE



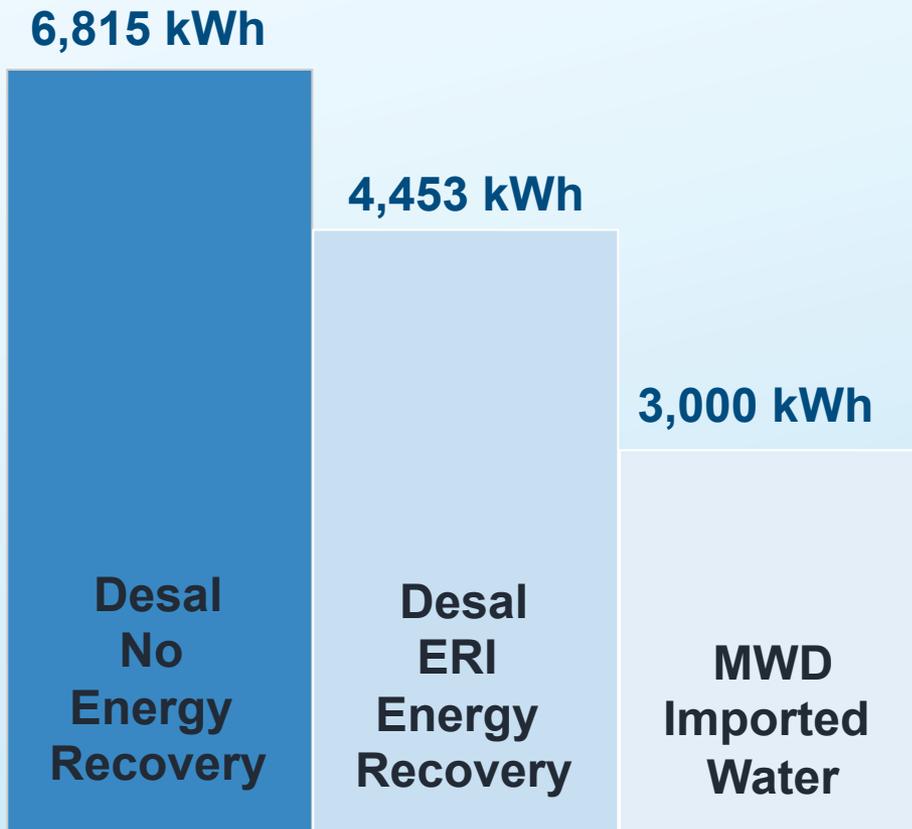
*West Basin will design a diffuser to be protective of marine life through rapid mixing and minimizing high salinity zones in the ocean.*



# COST



# ENERGY



Requires about the same amount of energy as refrigerator & freezer



Pursuing a Carbon Neutral Facility & Renewable Energy Sources

# PUBLIC SUPPORTS WEST BASIN EFFORTS

WHAT SHOULD BE OUR FUTURE LOCAL, DROUGHT-PROOF WATER SUPPLIES?	
Diverse local water portfolio	
Recycling (non-potable)	
Conservation	
Ocean Desalination	



[WWW.WESTBASIN.ORG](http://WWW.WESTBASIN.ORG)

CONNECT WITH US:



Thank You and **Bear Down!**