This presentation premiered at WaterSmart Innovations

watersmartinnovations.com

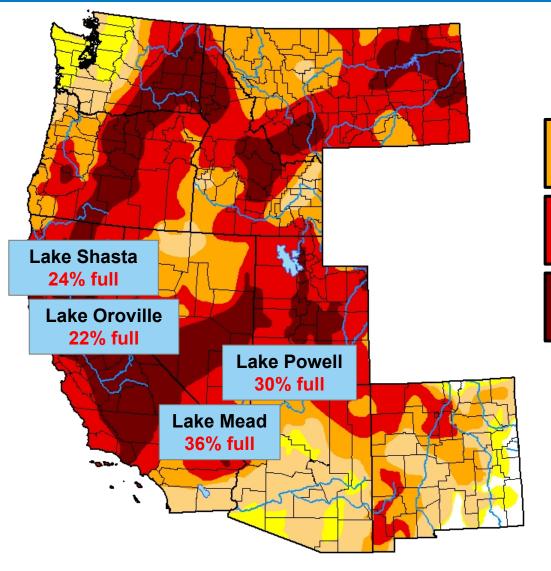




Unlikely alliances: Public-private partnership to advance water conservation in low-income housing

WATERSMART INNOVATIONS | OCTOBER 7, 2021

Drought conditions pervade the Western US, part of a multidecade trend worsened by climate change.



81% of the West is in severe drought.

60% of the West is in extreme drought.

22% of the West is in exceptional drought.



U.S. Drought Monitor. Map released: Thurs. September 23, 2021

Companies are setting more ambitious water goals.



Respondents with targets and/ or goals that are monitored at the corporate level

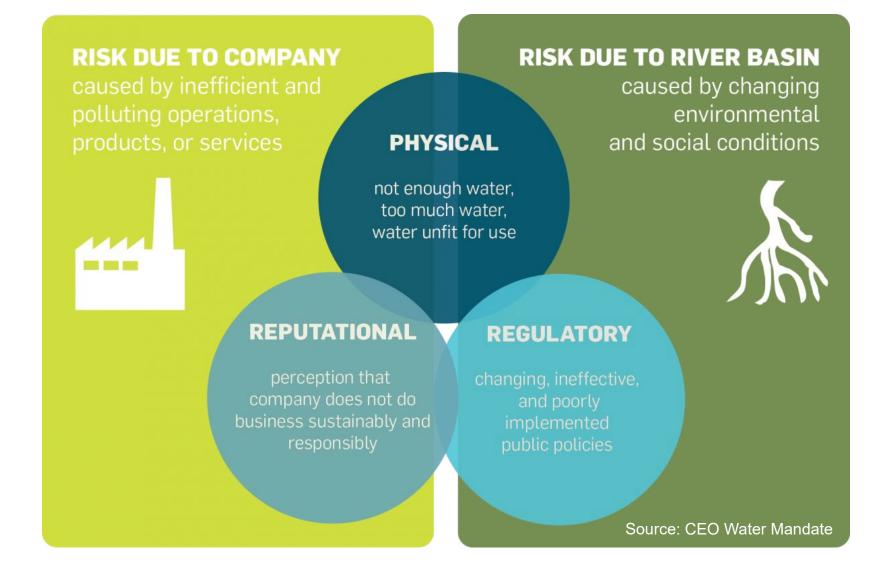
Microsoft will replenish more water than it droughts worsen consumes by 2030 It's building more data centers as water scarcity becomes a bigger Facebook pledges to become 'water problem worldwide Sep 21, 2020 | Brad Smith - President By Justine Calma | @justcalma | Sep 10, 2021, 8:30am EDT positive' by 2030 f 😏 🖄 share f 😏 in The tech firm aims to restore more water than it consumes, as it competes to meet green goals **3M joins Water Resilience** Coalition, CEO Water Mandate PepsiCo's Net Water Collective action will build on company's work to improve the environment, reduce water use, and improve water quality **Positive Vision** NEWS PROVIDED BY SHARE THIS ARTICLE f 🕑 🛅 🗿 🖸 🗊 $3M \rightarrow$ Reduce Use + Replenish More Aug 16, 2021, 07:51 ET

Google sets new water goals as

PACIFIC INSTITUTE

Source: CDP Water Report 2020

Companies in California face risks to business from drought.





Companies in California are collaborating on water stewardship.



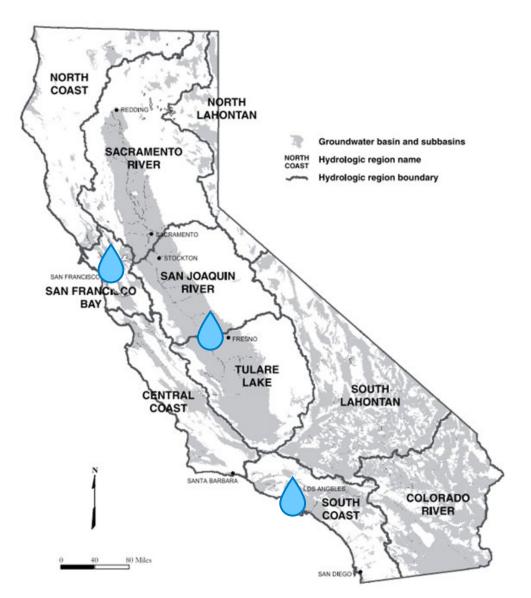
CWAC members work together and learn together.



www.cawateraction.org



Companies are seeking innovative projects with multiple benefits.





Water benefits



Energy benefits



Social benefits



Innovation



Partnerships



The Pacific Institute helped bring unlikely partners together.

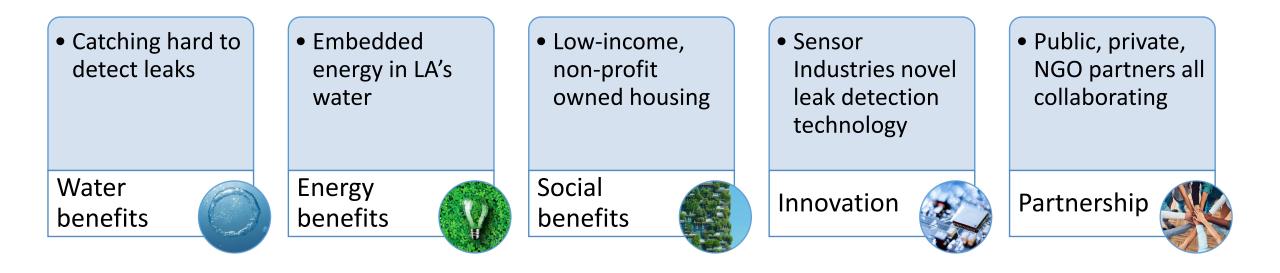




Mac Arthur Park Tower Toilet Leak Detection Project, Los Angeles

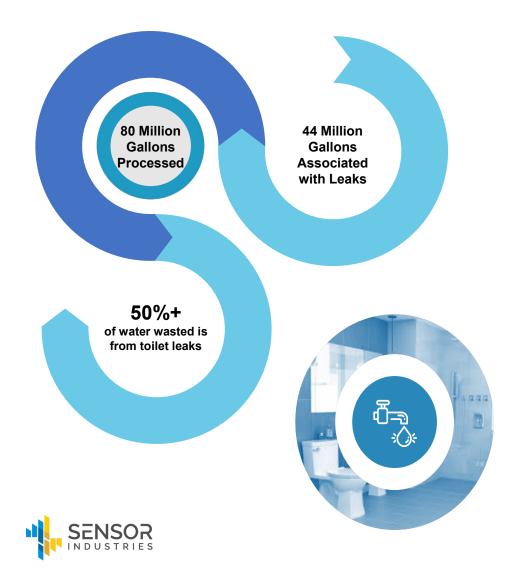


Leak detection for low-income housing in Los Angeles





Sensor Industries is an Indoor Water Conservation Solution for Multifamily Properties.



Avoidable Water Waste: Leaky Toilets Toilets leak more than you think

Leaking toilets are the #1 source of water waste for multi-unit property owners. Easy to fix, hard to monitor.

Tenants / Guests do not report toilet leaks to property managers.

A stuck open flapper valve causes toilets to leak up to 5,000 gallons per day.

More than 50% of water wasted is from toilet leaks.

The SI Solution is designed to generate results for any sized team, and any sized property.





Innovative, Smart Sensors

Network-connected toilet and flood sensors measure water activity and deliver actionable insights that cut expenses, increase net operating income, reduce waste, and mitigate risk.





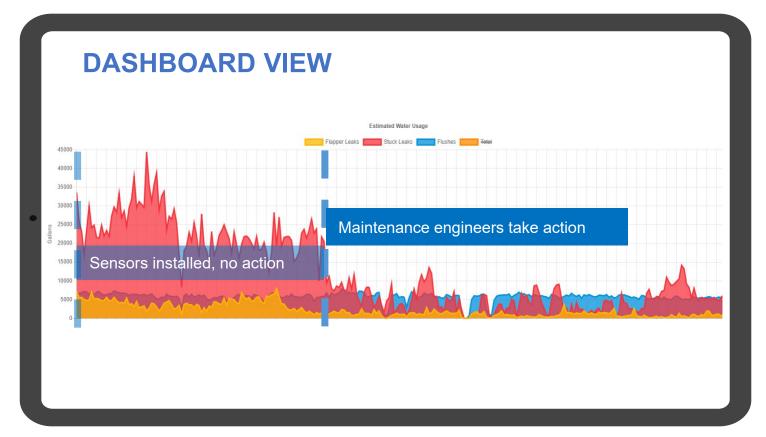
Patented US20160350880A1

The problem has been solved for helping toilets *flush* less water, and with the SI solution, toilets will also *leak* less water.

HOW IT WORKS

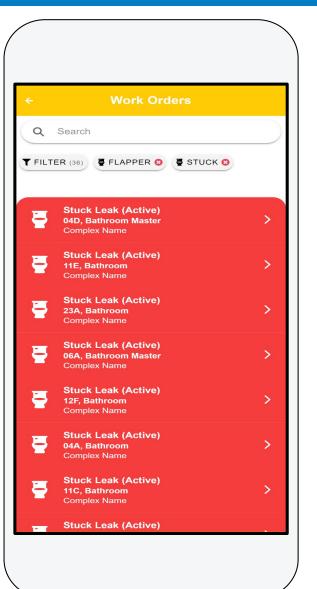
Smart sensors deliver real-time, actionable insights to maintenance, saving thousands each month in utility costs.

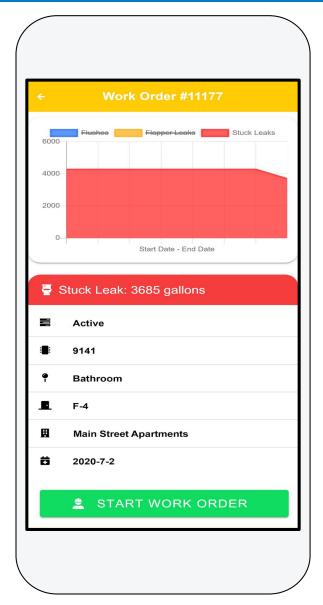
Learning immediately *where* and *when* leaks are occurring and *how* they can be resolved.

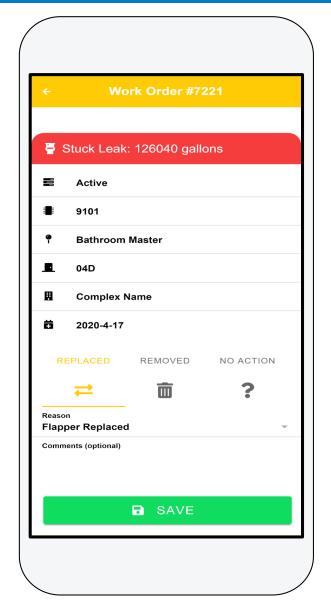




SI is dedicated to providing a rewarding and productive User Experience.







The MacArthur Park Tower project is a large installation with a large opportunity for significant water savings.



Senior Housing Water Conservation

MacArthur Park Tower

Scope: 183 Units / 184 Sensors

Annual Water Consumption: >6,570,000 Gallons

Estimated Annual Savings: >980,000 Gallons

Average Flush Count Per Toilet: >13 per Day





The MacArthur Park Tower project is a large installation with a large opportunity for noticeable water savings.



First Three Days of Monitoring: 6/28/21 to 6/30/21

Flush Gallons per Day: 2,354 (~56% of Total)

Leak Gallons per Day: 1,860 (~44% of Total)

Last Three Days of Monitoring: 10/2/21 to 10/04/21

Flush Gallons per Day: 2,124 (~94% of Total)

Leak Gallons per Day: 128 (~5.7% of Total)



Nicholas Benz



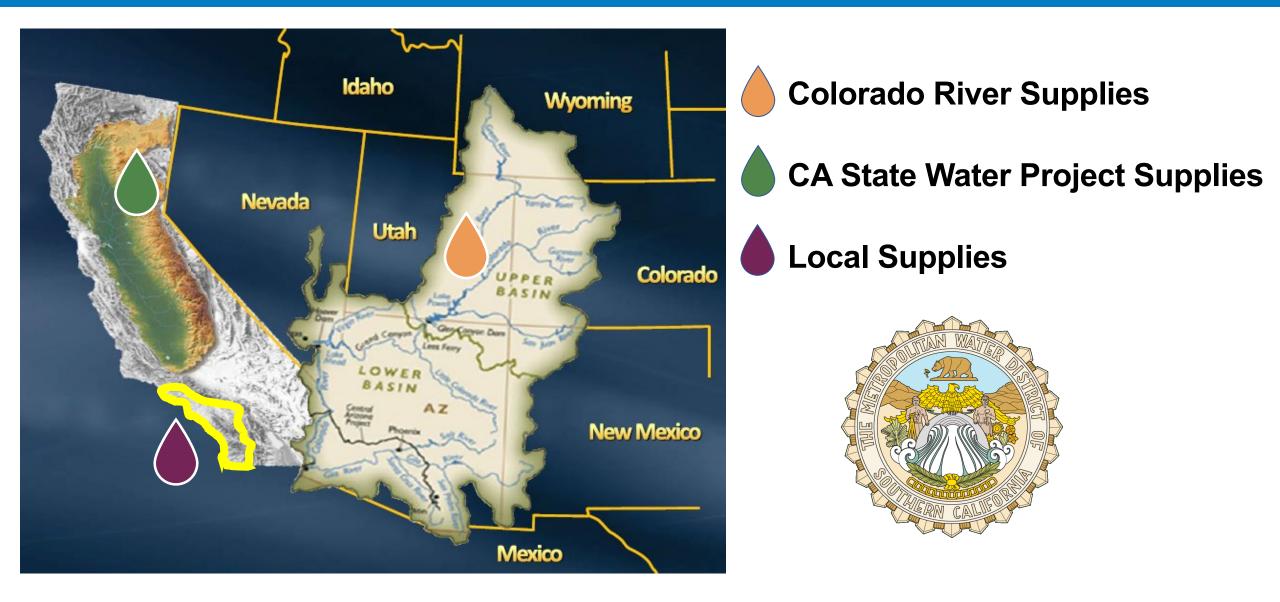
nick.benz@sensorindustries.com

(805) 312-3065



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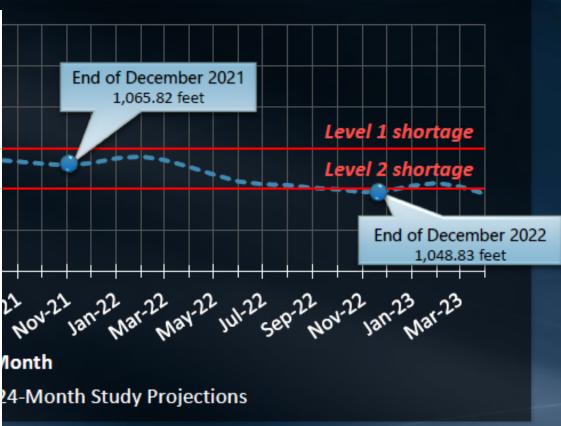




USBR's 24-Month Study Continues to Project Declining Lake Mead Elevation

First-Ever Colorado River Water Shortage Declaration Spurs Water Cuts in the Southwest

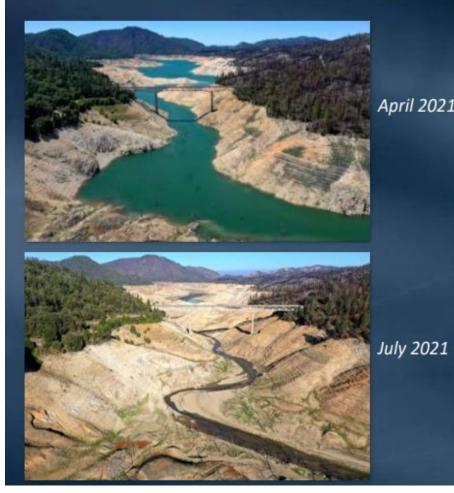




May 24-Month Study

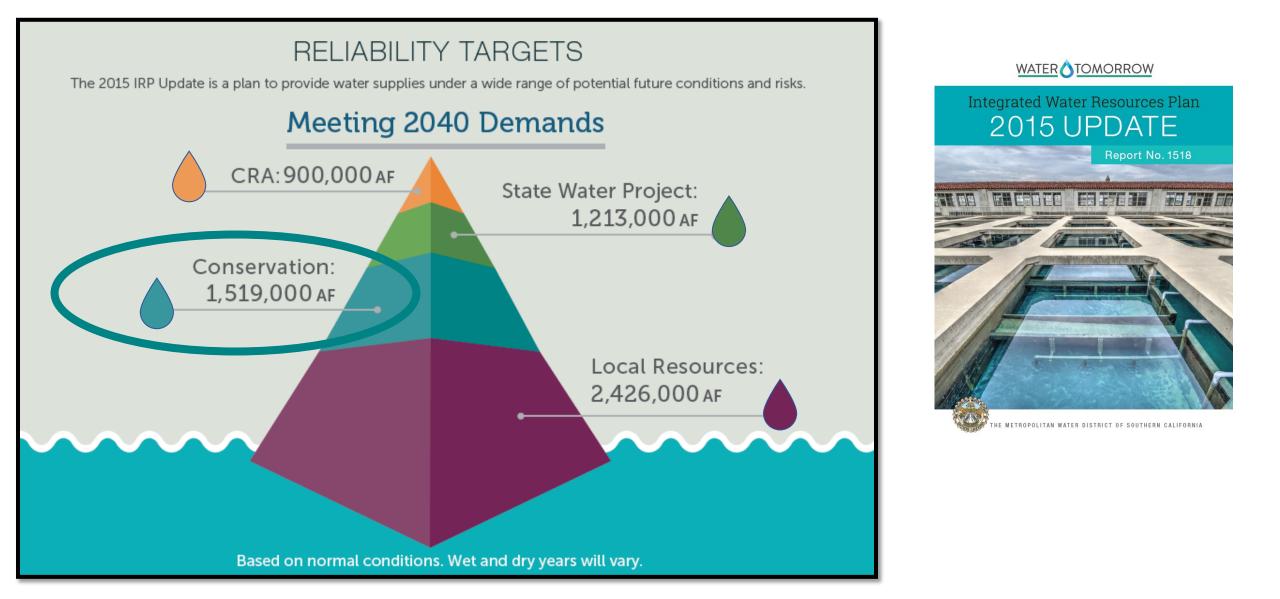
California State Water Project Supplies

Bleak Outlook for State Water Project



Anticipating a zero percent initial 2022 SWP Allocation

- Oroville storage may end the year at record low levels
- Competition for storage in San Luis Reservoir
- Roughly even chance of 20 percent SWP allocation in 2022



Conservation Incentives

- Turf Replacement Program
- Innovative Conservation Program (ICP)
- Commercial Landscape Surveys
- Device Rebate Programs
- Water Savings Incentive Program (WSIP)
- California Friendly[®] Landscape Classes (Residential)
- Member Agency Programs



Water Savings Incentive Program

MF Leak Detection



- Hard-to-Reach communities
- Low-income/DAC
- Collaboration

Pump-Pod DRAFTS Unit



Multiple Fire Departments ~\$36K / ~171 AF (>6 Mgal / yr)

UC Irvine



Medical Center RO \$4K / 20 AF (3.2 Mgal / yr)

Los Angeles County Arboretum



Irrigation System Upgrades \$141K / 650 AF (35.5 Mgal / yr)

- "Pay for performance"
- Incentives for non-residential, customized projects
- Up to \$0.60 / 1,000 gal saved per year (up to 10 yrs)

Eddie Corwin, Sustainable Operations Program Manager at Google



Shannon Quinn, Global Water Stewardship Leader at Procter & Gamble





Thank you!

Contact: Cora Kammeyer, ckammeyer@pacinst.org

