

WESTERN WATER SUPPLIES

U.S. Conference of Mayors Water Council



Why urgency, why now?

3.6

MAF

more is used than
nature currently
provides

Buffer of

6.3

MAF

at Lake Mead and
Lake Powell
above safe
operating levels

Post-

2026

roughly half could
disappear before
new rules apply, if
conditions continue

Ensure every drop goes a little bit further...



Optimize



Reuse



Reinvest

Optimize

Challenges it addresses



Rising costs

Need to stretch budgets; reducing energy and chemical costs



Technology and skill gaps

Access the tech and experts without spending millions to buildout



Aging assets and compliance

Catch issues before violations and reduce downtime

**HUBGRADE
CENTER,
ARIZONA**



Results we're seeing...



Reduced energy use

In some deployments it's cut energy use by 35%



Optimized chemical use

10-15% savings from smarter treatment



Extends asset life

Predictive monitoring, VR-support, and expertise doubling lifespan of MBR (16 years!)

Reuse

Challenges it addresses



Finite groundwater

Islands like O'ahu address demand straining potable water supply same as regions with source depletion



Growth demands

Growth outpacing treated water capacity to address resident and industry demand



New plants costly

New potable treatment plants would have cost millions and required land, limited on the island

HONOLULU WATER RECLAMATION FACILITY (HWRf)



Recycling water to meet needs



8-9 MGD conserved

Potable water is redirected to homes and for community use



\$35 million projected cost savings

Over the contract term and a model fit-for-purpose reuse



Stability and public trust

Reliable source for both people and industry

Reinvest

Challenges it addresses



1 in 3 employees

water sector employees will be eligible to retire in the next 10 years



Meet 100% reuse goals

Hyperion 2035 vision to recycle 100% of wastewater



Scale proof of concepts

Feasibility projects to test and scale diversification of water sources

HYPERION AWPF, CALIFORNIA



Results that matter



Accelerated readiness and best practices

For city staff to operate future DPR vision and facility



Reduced downtime & costs

Savings that can be reinvested in the next phase of reuse or workforce development



Community Trust

Transparency demonstrates that future reuse system are managed by high-skilled and certified operators

THANK YOU

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