

Water Recycling is a Key Strategy to Water Resilience

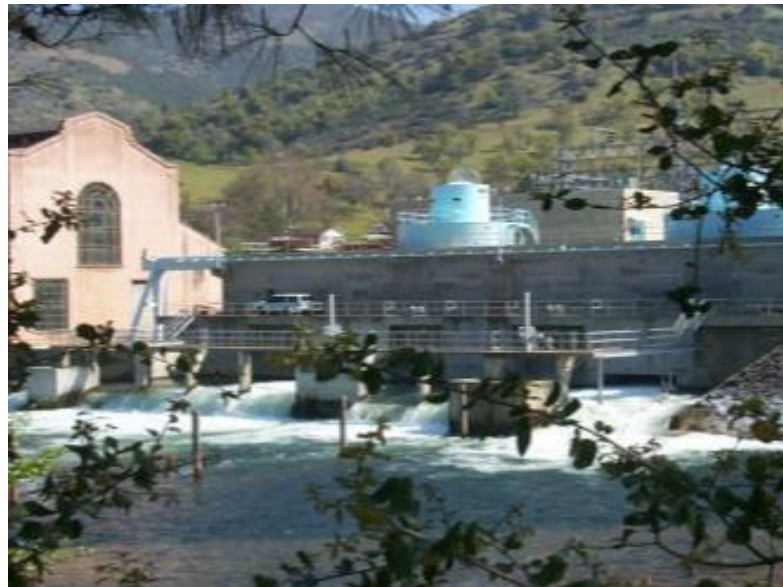
Paula Kehoe
Director of Water Resources
San Francisco Public Utilities Commission
October 2, 2019



San Francisco Public Utilities Commission



Water: delivering high quality water every day to 2.7 million people

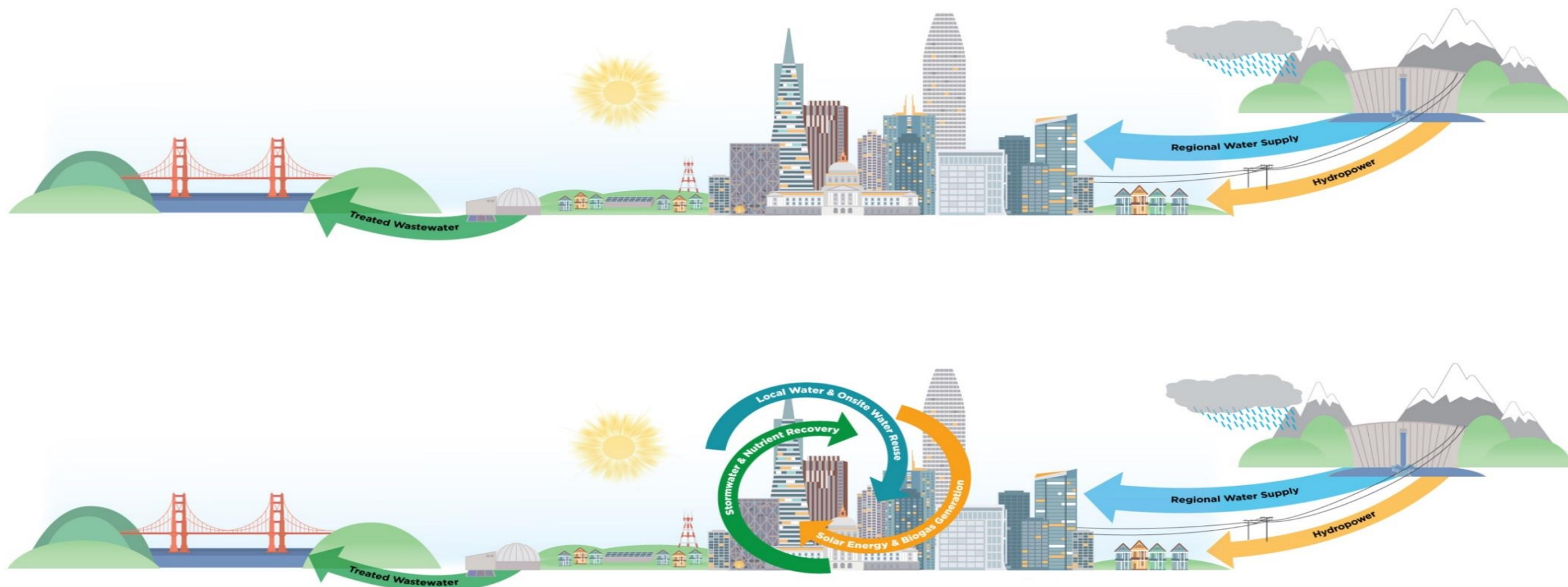


Power: generating hydropower and solar power



Wastewater: protecting public health and the environment

Moving Away from a Linear Approach to Integrated Planning and Implementation



HETCH HETCHY
+ LOCAL WATER
Better together.

Conservation
Groundwater
Recycled Water
Onsite Water Reuse
Innovations Program

San Francisco knows the importance of diversifying our water portfolio...
To ensure reliability—particularly in the age of climate change—we need
to use every water resource available.

Harlan L. Kelly, Jr., SFPUC General Manager

San Francisco's Approach to Recycled Water

- Various scales: centralized and decentralized (onsite water reuse)
- Various end uses: non-potable and potable purposes
- Multiple applications: commercial, industrial and residential

FIT FOR PURPOSE

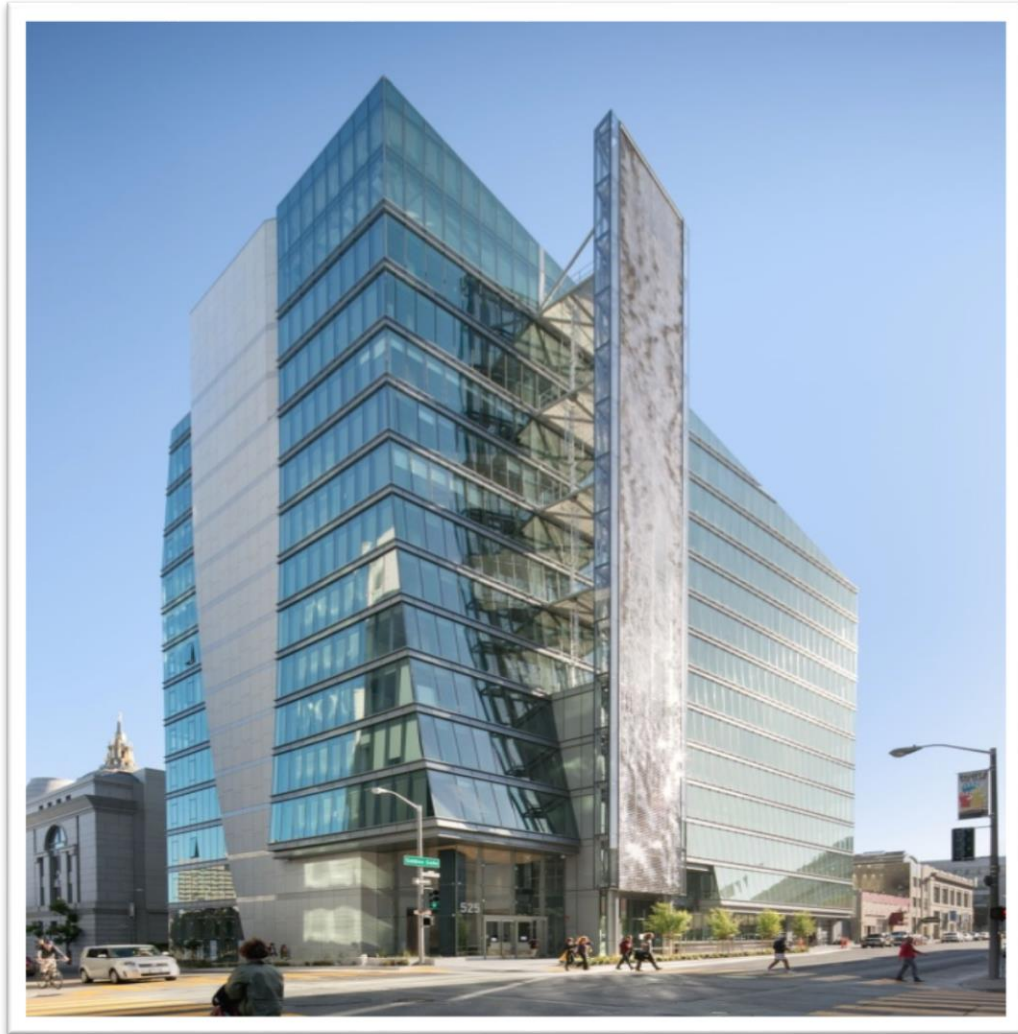


Centralized Recycled Water Facilities for Irrigation

- Irrigate City parks and golf courses with recycled water
- Partnerships to produce recycled water to take advantage of existing infrastructure
- Build centralized recycled water plant in San Francisco

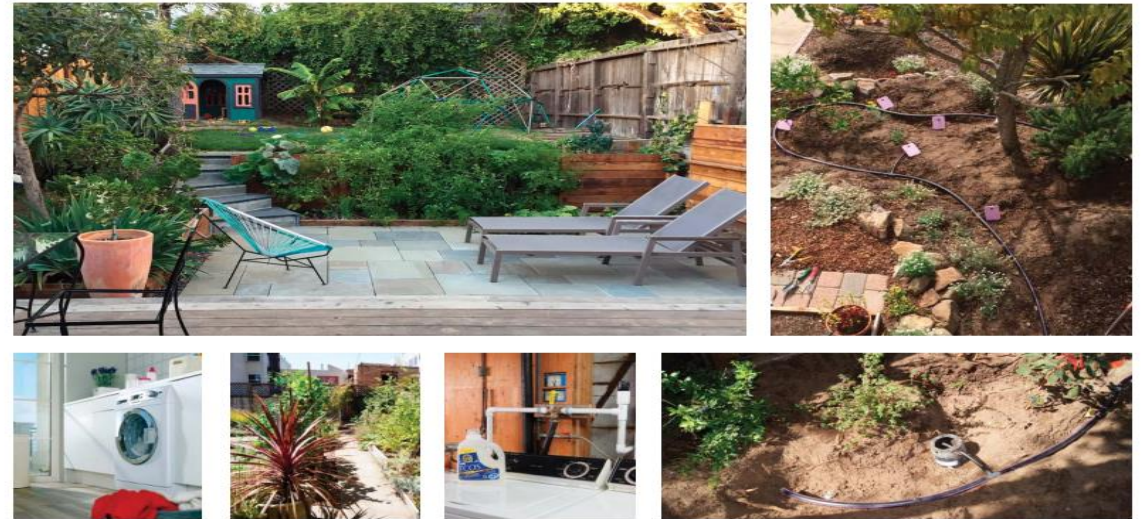


Innovative Approaches for Water Recycling on a Decentralized Scale: Onsite Water Reuse





Reusing Rainwater & Graywater on a Residential Scale

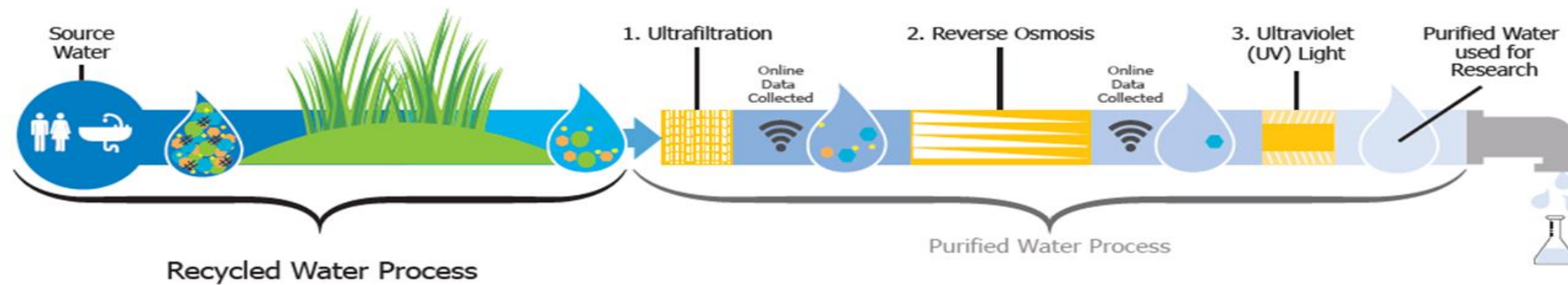


SAN FRANCISCO
graywaterdesignmanual
for OUTDOOR IRRIGATION

Expanding Onsite Water Reuse through Treating Process Water in Breweries



Piloting Decentralized Purified Water



Opportunities for Potable Reuse on a Centralized, Large Scale

Ongoing SFPUC studies of purified water:

- Reservoir augmentation
- Treated raw water
- Engage public



Benefits of Water Recycling

- Opportunities to produce right water for right use
- Provides greater resilience and reliability
- Opportunities to optimize water and wastewater infrastructure
- Opportunities to partner with community



Thank You

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[**sfwater.org**](http://sfwater.org)

