

Water Wise Cities: The San Francisco Perspective

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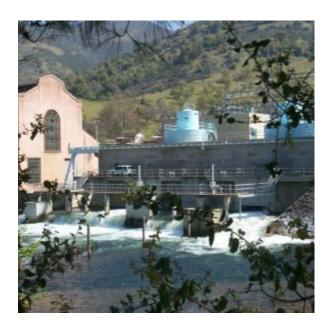
San Francisco Public Utilities Commission



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



Wastewater: protecting public health and the environment



Power: generating clean energy for vital City services

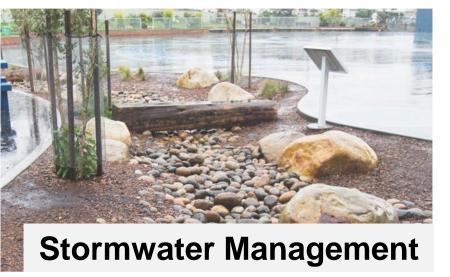


Challenges to Reliable Water Delivery & Sanitation Services











Moving Away from a Linear Approach to Integrated Planning and Implementation







SFPUC Taking a One Water Vision to Sustainable Urban Water



Integrated Water Management



Envisioning OneWaterSF through Guiding Principles

1. Match the **right resource** to the **right use**.

2. Look holistically at our water, wastewater, and power systems to develop programs, policies, and projects that provide multiple benefits.

3. Plan for variable outcomes and build in flexibility to adapt to future changes.

 Develop projects and programs that conserve resources and promote ecosystem health.



Envisioning OneWaterSF through Guiding Principles

 Work across traditional boundaries within our organization to foster collaboration that results in the efficient use of water, wastewater, energy, and financial resources.

6. Engage our communities to foster awareness and collaboration around OneWaterSF.

7. Pursue partnerships with other agencies, the private sector, and other stakeholders to generate new and creative ideas.

8. Pilot state-of-the-art technologies, and test new approaches to develop new business practices.



Matching the Right Water for the Right Use

- Groundwater historically used for irrigation and wastewater treated and discharged to bay and ocean
- Groundwater is of drinking water quality
- Produce recycled water for irrigation of large parks and golf courses from an underutilized resource and stretch drinking water supplies





Collaborating on Biosolids Product Development



- Currently half of biosolids sent to landfills for soil cover
- Expand opportunities by partnering to assess feasibility of producing high quality soil replenishment





Promoting Efficient Use of All of our Resources, Including Financial Resources

- Green and impact investors value work to reduce climate risk and social impacts
- Issuing Green Bonds to address infrastructure needs and upgrades, lowers cost for ratepayers





Piloting State-of-the-Art Technologies and Creating New Utility Business Practices





Onsite water reuse

- Innovations program
 - Breweries
 - Atmospheric water generation
 - PureWaterSF
 - Leak Detection Technologies



Working Across Traditional Boundaries on a Regional Scale

- SFPUC works to leverage existing interconnections with neighboring water providers
- Explore options for additional interconnections and new water supplies for droughts and future demand
- Strengthen water supply reliability and resiliency for over 7 million residents





Benefits of a Water Wise Cities Approach

- Addresses climate change, water shortages, water quality protection, and aging infrastructure challenges
- Opportunities to optimize water and wastewater infrastructure with small and large scale projects
- Encourages programs and projects that provide multiple benefits
- Partner and engage the community







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