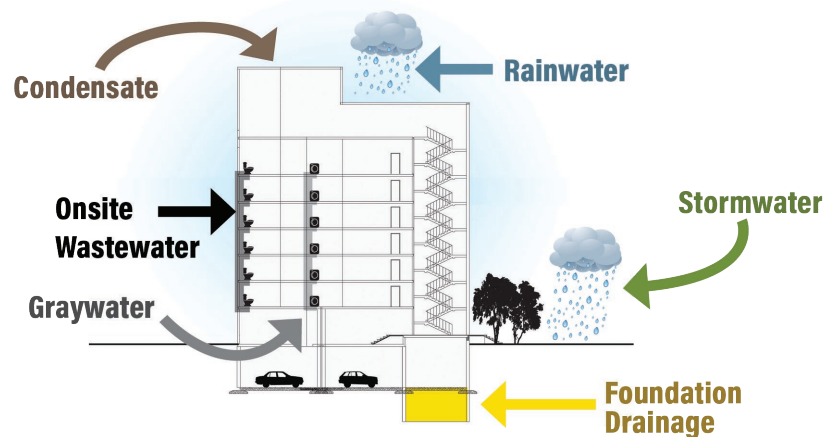


BEYOND WATER SAVINGS: UNLOCKING THE BENEFITS OF ONSITE WATER RECYCLING

San Francisco's Onsite Water Reuse Program allows for the collection, treatment, and reuse of rainwater, stormwater, graywater, and other alternate water sources and the use of these treated supplies for onsite non-potable applications within San Francisco.



BENEFITS OF ONSITE WATER RECYCLING

Financial Savings

Reduced water and wastewater capacity charges

Reduced monthly water bills from lower consumption

Water Resilience

Reduced reliance on SFPUC supply

Increased reliability in the event of an emergency

Reduced vulnerability to drought impacts

Reputational Benefits

Green and sustainable certifications

Increased company recognition

Social & Environmental

Increased wellbeing and quality of life of residents

Improved aesthetics

Improved stormwater management and reduced flooding risk

ONSITE WATER RECYCLING & LIVING WALLS

San Francisco MoMA collects rainwater and treats it for toilet flushing, make-up water for the cooling towers, gardens and irrigation of the outdoor green wall.



Living walls enhance **aesthetics** and promote **social wellbeing** for building occupants and the community.

Outdoor living walls can reduce **heat island effect** and provide **insulating effects**, leading to **energy and financial savings**.

The Arch Nexus in Sacramento collects and treats the building's graywater and reuses it for toilet flushing and irrigation of the indoor green wall.



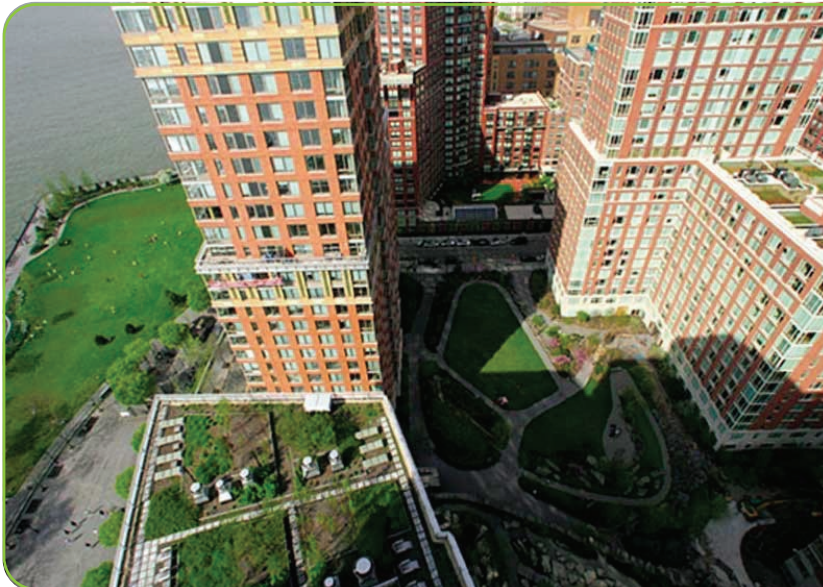
ONSITE WATER RECYCLING & WASTEWATER HEAT RECOVERY

Adding a **wastewater heat recovery system** allows thermal energy from a building's treated wastewater to be recovered and used to pre-heat the building's water supply to reduce water heating energy needs.

Benefits of Wastewater Heat Recovery

- Can **reduce building energy use** and **lower monthly electricity costs**
- Energy savings can **offset the energy needs of the onsite water recycling system**, potentially resulting in **energy neutrality**
- Can be designed for inclusion with a **new onsite water recycling system** or **added to an existing system**

The Fifteen Fifty building in San Francisco treats and collects rainwater and graywater, then reuses it for toilet flushing. A heat recovery system was added to their existing onsite water recycling system to help reduce the building's energy demand.



The Battery Park City development in New York collects and treats blackwater, graywater and rainwater for reuse for cooling tower make-up, toilet flushing, laundry, maintenance and irrigation. Overall, the heat recovery system fully offsets the onsite water recycling system's energy needs and offsets approximately 5% of the Solaire building's energy demand.

FUNDING OPPORTUNITIES

SFPUC's Onsite Water Reuse Grant Program provides funding to support the implementation of onsite water recycling systems in the city. Depending on their expected water savings, projects may be eligible for grant funding from **\$200,000** (for projects that replace at least 3.6 million gallons) up to **\$1,000,000** (for projects that offset at least 24 million gallons).

Visit www.sfpuc.gov/programs/grants/onsite-water-reuse-grant for more details on the grant program rules.

Visit www.sfpuc.gov/npo for more resources.