WATERHUB® at the University of Texas at Austin

The WaterHub® at the University of Texas at Austin (UT) is an eco-engineered wastewater reclamation and reuse system located on campus at UT. The WaterHub® is designed to intercept and reclaim municipal wastewater from the City's sewer main along San Jacinto Boulevard for reuse in power generation and cooling tower makeup. The system will reclaim up to 1 million gallons of wastewater per day, reducing the campus's potable water demands by 40% and sewer contributions by 75%.

ABOUT H_2O INNOVATION

H_2O Innovation is a pioneering designer and manufacturer of membrane systems, specializing in water, wastewater, and water reuse treatment for municipal and industrial customers.

The WaterHub® meets the University's specific goals including redundant (N+1) source of makeup water for critical utility operations as well as academic and research opportunities. It also achieves mutual UT and City goals of drought protection and potable water conservation. In November 2018, Austin City Council approved a 100-year integrated water resource plan, Water Forward, aimed at achieving these objectives through strategies like sewer mining and wastewater reuse, both employed by the WaterHub®. The UT WaterHub® alone will help the City realize 20% of its combined 2040 sewer mining and wastewater reuse goals.

Location
Austin, Texas

Client
University of Texas at Austin

Project Type
District-Scale Sewer Mining & Wastewater Reclamation System

Hydarulic capacity
1 million Gallons Per Day

Commercial Operation
2027

End Uses
Power Generation, Cooling Tower Makeup

A SUSTAINABLE WATER SOLUTION FOR UNIVERSITY COMMUNITY

Benefits to the University of Texas at Austin:

- Cost Savings: Decreases the university's potable water expenses and provides a cost-effective water solution.
- Sustainability Leadership: Enhances the university's sustainability profile and contributes to its environmental and community goals.
- Resilient Water Supply: Ensures a reliable source of water, reducing vulnerability to water scarcity and drought.
- Educational Impact: Offers hands-on learning opportunities for students in environmental science, engineering, and sustainability fields.

75% REDUCTION IN SEWER FLOWS

40% REDUCTION IN POTABLE WATER USE

CAPTURING AND REUSING WATER AT THE POINT OF USE INCREASES OUR COMMUNITY'S ABILITY TO ACCESS ALL LOCAL WATER SOURCES AND ADDS TO SUPPLY DIVERSITY AND RESILIENCY. EXPANDING REUSE SUPPLIES, WHETHER AT THE BUILDING SCALE OR FROM THE CITY'S RECLAIMED WATER SYSTEM, ALLOWS US TO USE NON-DRINKING WATER TO MEET DEMANDS THAT DO NOT REQUIRE DRINKING WATER QUALITY.*

*Austin's Water Forward Integrated Resource Plan, p. 1-6, section 1.3.