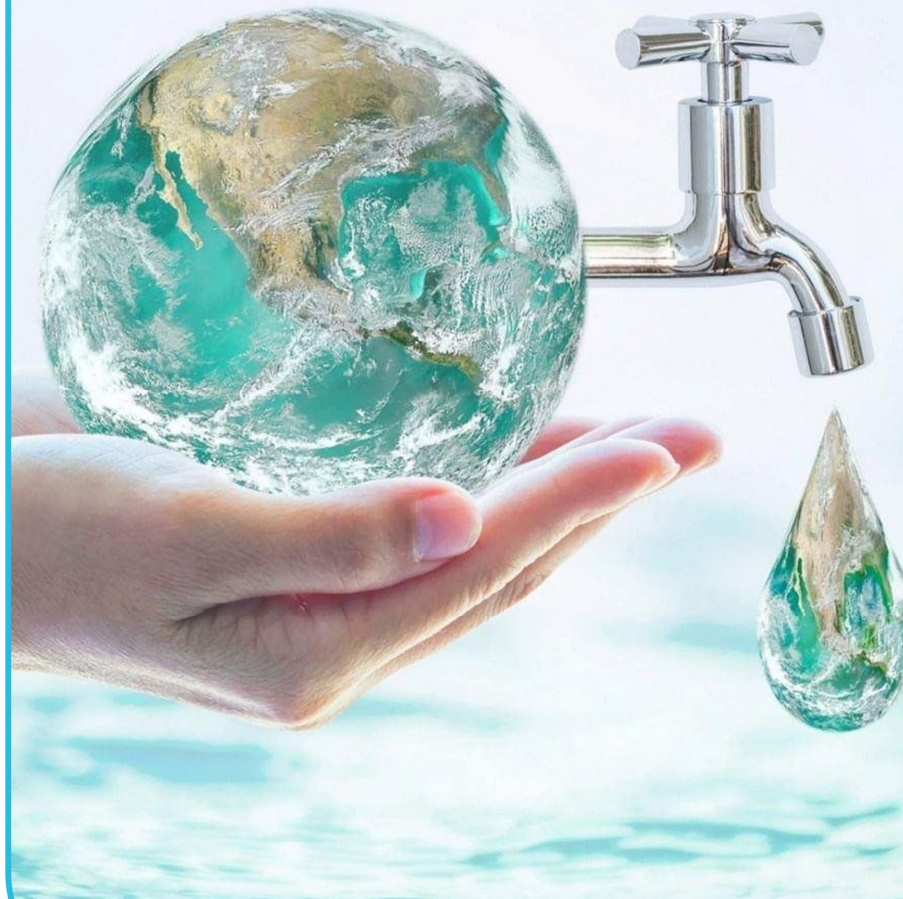


Water recycling program implementation

TSUULL has contracted with State Unitary Enterprise 'Suvsoz' to responsibly recycle wastewater. Thus, university Sustainable Practices Office monitors and controls the sewerage pipes around university to ensure leakfree university sewage joint to central network. The wastewater discharged from the city territory is transferred to the city treatment facilities by an underground pipeline system and thereafter recycled with a full range of biological treatment, including disinfection of treated wastewater with sodium hypochlorite.

TSUULL Sustainable Practices Office Team uses rain/snow waters to water campus vegetation. With five ton rain/snow barrels, the team collects water from roof and surrounding gutters. When necessary, the water is used at the turn of a tap for watering, cleaning and washing. The containing water is used regularly to empty the space for renewal. Besides, during the rain/snow season the waters are stored in cisterns and tanks in dark and cool conditions for efficient use of hot and dry seasons. Also, the team often encourages the canteen crew to leave the water used to boil vegetables to cool so, later they can sprinkle the water over the campus plants.

6 CLEAN WATER AND SANITATION



Water conservation program and implementation TSUULL

1. Sustainability Practices Office implements all year round several water conservation techniques within the university water conservation program. In order to support the program conditions, the university had several water tanks installed on campuses. The collected water via pumps during the rain/snow season is stored in the water tanks for later utilization, in particular for irrigation or indoor plant watering purposes.
2. The Sustainability Practices Team has also built a small reservoir on site to better conserve seasonal waters from precipitation. The reservoir is formed by excavating the land and diverts runoff water into itself. From this year on, it has been one of the greatest sources of water for especially domestic use and drip irrigation system to efficiently water university vegetable gardens.
3. Sustainability Practices Team regularly improves and increases campus forest and park area in order to enhance water infiltration and increase ground water supply from an unconfined aquifer.





'It's great seeing a new technology in action when it comes to water'

Madina Ochilova
Greenmetrics Rankings Coordinator

3. Waste water recycling

Grey water and black water (the water from toilets) together make up waste water, also known as sewage. Reedbeds are a popular way to recycle waste water. Reedbeds are man-made wetlands with reed plants that offer the perfect environment for the growth of microorganisms that can support aerobic sewage treatment.

Role of sustainable practices office

TSUULL Sustainable Practices Office plays a pivotal role in conserving water and ensuring water efficiency standard. Regular water auditing to measure consumption and reporting and dissemination of such results to create awareness amongst users are essential for any effective water management strategy.



4. Raising Awareness Through TSUULL Public-Talks Program

TSUULL noted the importance of community education at the institutional level, including the Public Talks or Green Talks initiated by TSUULL every Friday, which has been organizing campus awareness raising events in 2022. Part of promoting a sustainability mindset also includes encouraging sustainable lifestyles that incorporate environmentally friendly principles in everyday life. Using water issues to connect to local communities, TSUULL is also ensuring that addressing water management is a central part of their civic engagement.



1. Due to the World Cities Day which is annually celebrated on 31 October, TSUULL is encouraged to mark the day by organizing events through public-talks, workshops or webinars and interviews: **Panel Discussion** on waste-to-energy development with researchers and entrepreneurs of start-ups in clean energy and responsible consumption;

2. **Public-Talk** with urban practitioner about sustainable cities, urbanization and urban mobility as part of sustainable urban development;

3. **Public-Talk** with UNEP Advocacy Officer within the Secretariat of the Tehran Convention (Framework Convention for the Protection of the Marine Environment of the Caspian Sea) about the environmental policy: the world's oceans and seas continue to struggle against increased acidification, eutrophication and plastic pollution, which are endangering the planet's largest ecosystem and the billions of livelihoods depending on them;

4. **Public-Talk** on Water Management in Central Asia with an expert in water issues who provided valuable insights into the ongoing challenges related to water management issues in the Central Asia region.