



Sohar University Water Conservation

Introduction:

Sohar University aims to reduce water wastage and enhance water management practices across the campus. Nevertheless, the University also focuses on education to achieve long-term water sustainability.

To achieve the aims, SU is:

- Promoting research and innovation by encourage research projects focused on water conservation and sustainable water practices.
- Enhance water management to improve the efficiency of water usage in university facilities and landscaping.
- Educating and raising awareness among students and staff to promote the importance of water conservation.

Procedures of the initiatives:

For research and innovation:

- SU encourage students to undertake research projects focused on water conservation, such as developing innovative water-saving technologies and desalination of water.
- SU supports faculty research initiatives that explore sustainable water management practices and technologies relevant to Oman's climate and environment.
- SU also collaborate with the industry and government agencies to pilot water conservation technologies and share best practices.

For water management and enhancing water consumption, SU has put a very good plan to utilise the water efficiently and all sewage water are being recycled by relevant authorities.

- SU consumes very limited quantities of municipality (state) water in comparison to the size of the university and number of its staff and students. This is clear from the actual water company bills:

Expense	7 months 2024	Comments
Water (Bill)	OMR 490.49	Very small amount with an average of OMR 70 per month

Month	Water (Bill)
Jan-24	53.59
Feb-24	83.16
Mar-24	97.02
Apr-24	5.54
May-24	29.11
Jun-24	98.52
Jul-24	123.55
Total	490.49



- For staff drinking water, SU acquires bottled water (5-gallon size). The cost and quantities of such drinking water is provided in the below table for reference.

Expense	2022/2023	Comments
Drinking Water	OMR 4,575.000	With the average cost of one OMR per 5-gallon water, the total quantity of consumed drinking water per year is 22875 Gallon (91500 L) which provides less than 0.6 L per staff per day. This is below the average consumption of human drinking water per daily working hours. This indicate that there is a good consumption management of drinking water

- For general water usage including water usage in air-conditioning chillers, SU pumps water from its in-campus wells. Hence, the collected sewage provides a good measure of consumed quantities.

Months	Numbers of trips	Each trip	Quantity (Gallon)
23-Sep	187	10000	1870000
23-Oct	196	10000	1960000
23-Nov	156	10000	1560000
23-Dec	120	10000	1200000
Jan-24	122	10000	1220000
Feb-24	122	10000	1220000
Mar-24	152	10000	1520000
Apr-24	128	10000	1280000
May-24	158	10000	1580000



Jun-24	141	10000	1410000
Jul-24	132	10000	1320000
Aug-24	132	10000	1320000

Total in cubic meters = 87300 Cubic meters per year including 29200 Cubic meters of chiller cooling tower blow down water. Therefore, the daily general water usage at SU is less than 14 Liter per person. This is far below the average water usage per person in the world even if we take in consideration that the average number of hours spent at the university is 5 hours per day. The figures and records demonstrate that the University is having a very good water conservation management system.

SU will continue to monitor and enhance its water conservation wherever possible as part of its commitment to the environment sustainability.