SDG 14

LIFE BELOW WATER

Institutional Impact Report 2026

Al-Iraqia University

Water Protection • Wastewater Management • Pollution Prevention • Water Reuse • Environmental Awareness

The uploaded university evidence supports SDG 14 primarily through pollution prevention, wastewater management, water reuse and protection of water resources. Because the university is inland, the documented contribution is indirect: reducing pollutants and improving water stewardship before they can affect downstream aquatic systems.

Reporting: year 2025–2026



1. Executive Summary

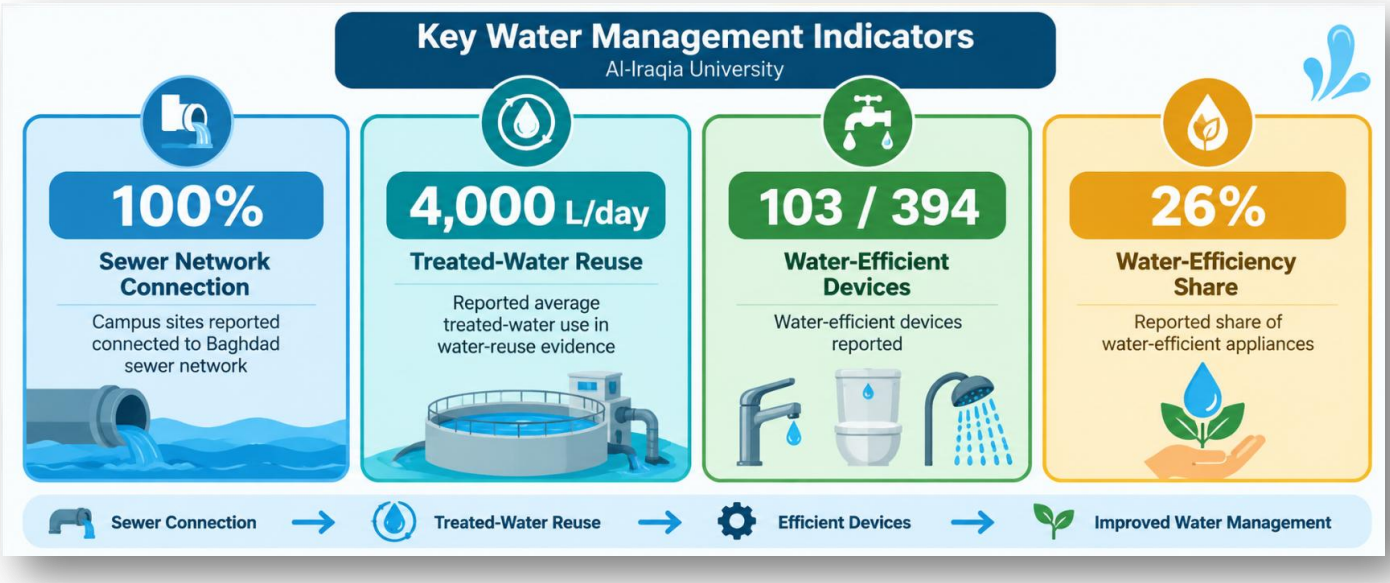
Al-Iraqia University contributes to SDG 14 – Life Below Water through an integrated approach focused on pollution prevention, responsible wastewater management, water reuse, and the protection of water resources. As an inland institution, the University's contribution to aquatic ecosystem protection is primarily indirect, reflecting its commitment to reducing potential sources of pollution and strengthening sustainable water-management practices across its campuses.

Institutional measures include the responsible management of wastewater, connection to the municipal sewer network, treated-water reuse, water-conservation practices, and initiatives aimed at improving water-use efficiency. These measures help minimize the discharge of pollutants, reduce pressure on freshwater resources, and promote more responsible management of water throughout university operations.

Through these coordinated actions, Al-Iraqia University strengthens institutional water stewardship and contributes to the protection of downstream aquatic environments by addressing potential environmental impacts at their source. This approach demonstrates the University's commitment to responsible resource management and the long-term protection of water quality and aquatic ecosystems.

Institutional Capacity & Impact at a Glance

100%	4,000 L/day	103 / 394	26%
campus sites reported connected to Baghdad sewer network	reported average treated-water use in water-reuse evidence	water-efficient devices reported	reported share of water-efficient appliances



Institutional contribution at a glance

- **Wastewater and Pollution Prevention:** University sites are documented as connected to the Baghdad Municipality sewer network, with internal networks maintained to reduce leakage, contamination and uncontrolled discharge.
- **Water Reuse and Conservation:** The university documents reuse of treated water for cleaning, toilets and irrigation, together with drip/sprinkler irrigation and water-saving cleaning practices.

- **Water-Efficient Infrastructure:** The evidence reports 103 water-efficient devices out of 394, equivalent to 26%.
- **Education and Environmental Stewardship:** Education and research evidence explicitly links SDG 14 to awareness of water-resource and ecosystem protection.



Figure 1. Ministry committee visit to assess clean and renewable energy infrastructure at Al-Iraqia University.

The College of Engineering at Al-Iraqia University received a committee from the Directorate of Water, Environment, and Renewable Energy at the Ministry of Science and Technology. The visit included an on-site assessment of the College's infrastructure as part of the National Initiative for the Transition to Clean Energy. The committee also discussed appropriate solutions for adopting clean and renewable energy technologies and emphasized continued institutional cooperation to support sustainability, education, and scientific research.

Wastewater Treatment Technologies

Al-Iraqia University promotes scientific research and engineering studies focused on advancing wastewater treatment technologies and supporting the responsible reuse of treated water in accordance with scientific and environmental principles. These research activities contribute to the development of innovative technological solutions that enhance water quality, reduce potential pollution, and strengthen sustainable water-resource management.

Activity Objective: To develop effective technological solutions for wastewater treatment, water protection, and sustainable water management.

Activity Type: Scientific Research

Link: https://www.facebook.com/reel/1556298038806894



Water Conservation through Smart Irrigation

Al-Iraqia University advances responsible water management through the adoption of efficient irrigation technologies across its campus facilities. The College of Medicine has implemented a modern drip-irrigation system for landscaped and planted areas, delivering water directly to plant roots to improve irrigation efficiency and reduce unnecessary water loss.

The initiative contributes to reducing water consumption, addressing water-scarcity and drought-related challenges, and promoting the sustainable management of freshwater resources. By improving water-use efficiency at the campus level, the University helps reduce pressure on natural water resources and supports broader efforts to protect water quality and downstream aquatic environments.

This initiative demonstrates Al-Iraqia University's practical commitment to water conservation, sustainable resource management, and environmentally responsible campus operations, providing an indirect but relevant institutional contribution to **SDG 14 – Life Below Water**.

Activity Objective: To reduce water loss, improve irrigation efficiency, and promote the sustainable use and protection of water resources.

Activity Type: Sustainable Campus Initiative / Water Conservation

Institutional Evidence: College of Medicine, Al-Iraqia University.

Link: https://medic.aliraqia.edu.iq/27329



Figure 2. Drip-irrigation practices at Al-Iraqia University demonstrating efficient water delivery to plants, reduced water loss, and sustainable management of water resources.

2. Wastewater and Pollution Prevention

University sites are documented as connected to the Baghdad Municipality sewer network, with internal networks maintained to reduce leakage, contamination and uncontrolled discharge. Waste-management evidence also links sewage maintenance to safeguarding water resources.

3. Water Reuse and Conservation

The university documents reuse of treated water for cleaning, toilets and irrigation, together with drip/sprinkler irrigation and water-saving cleaning practices. These measures reduce freshwater demand and support responsible water management.

4. Water-Efficient Infrastructure

The evidence reports 103 water-efficient devices out of 394, equivalent to 26%. Multi-stage water purification equipment is also documented to improve water quality for university use.

5. Education and Environmental Stewardship

Education and research evidence explicitly links SDG 14 to awareness of water-resource and ecosystem protection. Waste reduction, hazardous-waste controls and responsible consumption further reduce pathways through which pollutants can enter aquatic environments.



Figure 3. Wastewater management infrastructure illustrating sewer access, wastewater conveyance pipelines, and treatment facilities that support pollution control, responsible water management, and the protection of water resources.

6. SDG 14 Evidence and Impact Matrix

Impact area	Verified university evidence	Contribution to SDG 14
Sewage management	Connection to municipal sewer network and internal maintenance	Reduces uncontrolled wastewater discharge.
Water reuse	Treated water used for cleaning, toilets and irrigation	Reduces freshwater demand and wastewater burden.
Efficient fixtures	103 of 394 devices; 26%	Improves water-use efficiency.
Pollution prevention	Waste segregation and hazardous-waste controls	Reduces contaminant pathways to water bodies.
Education	SDG 14 awareness in education/research reporting	Builds knowledge of aquatic-resource protection.