



## Template for Evidence(s) UI GreenMetric Questionnaire

University : Samarra  
Country : Iraq  
Web Address : www.uosamarra.edu

### [4] Water (WR)

#### [4.7] Impact of Water Management programs in supporting the Sustainable Development Goals (SDGs)



Impact of Water Management programs in supporting the Sustainable Development Goals (SDGs) at University of Samarra

#### Description:

The University of Samarra implements comprehensive water management programs that significantly support the Sustainable Development Goals (SDGs) and align with the UI GreenMetric 2026 framework. These initiatives demonstrate the university's commitment to environmental sustainability, water conservation, climate resilience, and responsible resource management.

Water Management Initiatives



The university has implemented several sustainable water management programs across campus facilities, including:

- Installation of rainwater harvesting systems for irrigation and non-potable uses.
- Construction of infiltration wells and bio-retention systems to improve groundwater recharge.
- Deployment of smart water meters and digital monitoring systems for leak detection and water efficiency.
- Use of low-flow faucets, dual-flush toilets, and water-saving fixtures.
- Wastewater treatment and greywater reuse systems for irrigation and cleaning purposes.
- Integration of drought-tolerant and native plant species to reduce irrigation demand.
- Development of permeable pavements and green infrastructure to reduce runoff.
- Water conservation awareness campaigns, workshops, and educational activities.
- Collaboration with governmental and environmental organizations in water sustainability research.

#### Contribution to Sustainable Development Goals (SDGs)

The University of Samarra's water management programs contribute directly and indirectly to several SDGs:

- **SDG 3 – Good Health and Well-being:**  
Improving access to clean and safe water and reducing environmental health risks.
- **SDG 4 – Quality Education:**  
Enhancing sustainability awareness and environmental education within the university community.
- **SDG 6 – Clean Water and Sanitation:**  
Supporting efficient water management, wastewater treatment, and sustainable water use.
- **SDG 11 – Sustainable Cities and Communities:**  
Promoting resilient campus infrastructure and environmentally sustainable urban practices.
- **SDG 12 – Responsible Consumption and Production:**  
Encouraging responsible water consumption and resource efficiency.
- **SDG 13 – Climate Action:**  
Supporting climate adaptation strategies through sustainable water conservation systems.

#### Monitoring and Evaluation

The university continuously evaluates the effectiveness of its water management initiatives through:

- Digital monitoring systems.
- Sustainability reporting.
- Water consumption analytics.
- Environmental performance assessments.
- Institutional sustainability committees.

These measures support evidence-based decision-making and continuous environmental improvement.

#### Environmental Impact

The implemented programs have contributed to:

- Reducing water consumption across campus.
- Improving water-use efficiency.
- Enhancing environmental awareness among students and staff.
- Supporting sustainable campus development.



- Strengthening the university's environmental sustainability performance.

Official Links and Supporting Evidence

<https://uosamarra.edu.iq>.

<https://uosamarra.edu.iq/sustainable-dev>.