



— ISTANBUL —
OKAN UNIVERSITY

MAKING THE WORLD A BETTER PLACE:

A Report On Our Progress with the
17 Sustainable Development Goals
SDG 6 – CLEAN WATER AND
SANITATION



The 17 Sustainable Development Goals

The Sustainable Development Goals (SDGs), also known as Global Goals, are a set of 17 integrated and interrelated goals to end poverty, protect the planet and ensure that humanity enjoys peace and prosperity.



THE GLOBAL GOALS





Introduction

Aim of this report presenting the sustainability achievement of OKAN in 2022 for SDG 6. The report introduces the general practices and policies of the university on sustainability.

"Ensure availability and sustainable management of water and sanitation for all"

universities can play a significant role in advancing SDG 6 by contributing to research, education, advocacy, community engagement, and sustainable practices related to clean water and sanitation. Their efforts can help create a more sustainable and equitable future for all in line with the United Nations' sustainable development agenda.

SDG 6: Ensure availability and sustainable management of water and sanitation for all

Istanbul Okan University, which educates individuals who contribute to the needs of society and national competitiveness and conducts education, training and research studies at an international level, has the mission of implementing innovative ideas and practices.

It aims to offer all its employees and students an environment with low carbon intensity, a high quality of life that protects the existing ecosystem, supports biodiversity, and ensures environmental sustainability by preventing air, water and soil pollution.

With this vision and purpose, our university aims to ensure a healthy and quality life by protecting human and environmental health.



SDG 6: Targets

Goal 6.1: To design and implement effective, efficient and inclusive water management.

Goal 6.5: Increasing water recycling and reuse.

Goal 6.2: To ensure efficiency in the use of water.

Goal 6.6: Ensuring sustainable water supply.

Goal 6.3: Protecting and restoring aquatic ecosystems.

Goal 6.7: To develop cooperation with stakeholders from different institutions on water collection, water efficiency, wastewater treatment, recycling and reuse technologies.

Goal 6.4: To develop cooperation with stakeholders from different institutions on water collection, water efficiency, wastewater treatment, recycling and reuse technologies.



SDG 6: Indicators

Indicator 6.1: Capacity of the facility built to contribute to the management of wastewater treatment services.

Indicator 6.5: Rate of innovative practices used to save water.

Indicator 6.2: The realization rate of the monitoring and tracking system for an effective, efficient, inclusive and sustainable integrated water management.

Indicator 6.6: Number of buildings using technologies that enable water reuse such as reducing water losses and using gray water by performing inspections, monitoring and controls.

Indicator 6.3: The rate of decrease in the amount of city mains water supply in water supply.

Indicator 6.7: Number of events held to increase stakeholders' knowledge and awareness.

Indicator 6.4: Change in the amount of recycled water usage.

Indicator 6.8: Number of information, awareness and events organized for staff, students and other stakeholders on campus.



SDG 6: Clean Water and Sanitation

Wastewater in OKAN

Our university has a water purification system to prevent the entry of dirty and waste water. Domestic waste is treated with 5 biological treatment systems (purification) with a capacity of 200 m³/day.



Clean Water is Everyone's Right

There are drinking water fountains in common areas throughout the university, and staff and students can use them free of charge. The water source of these fountains is İSKİ (Istanbul Metropolitan Municipality Water and Wastewater Central Administration), which is treated within the university.



SDG 6: Clean Water and Sanitation

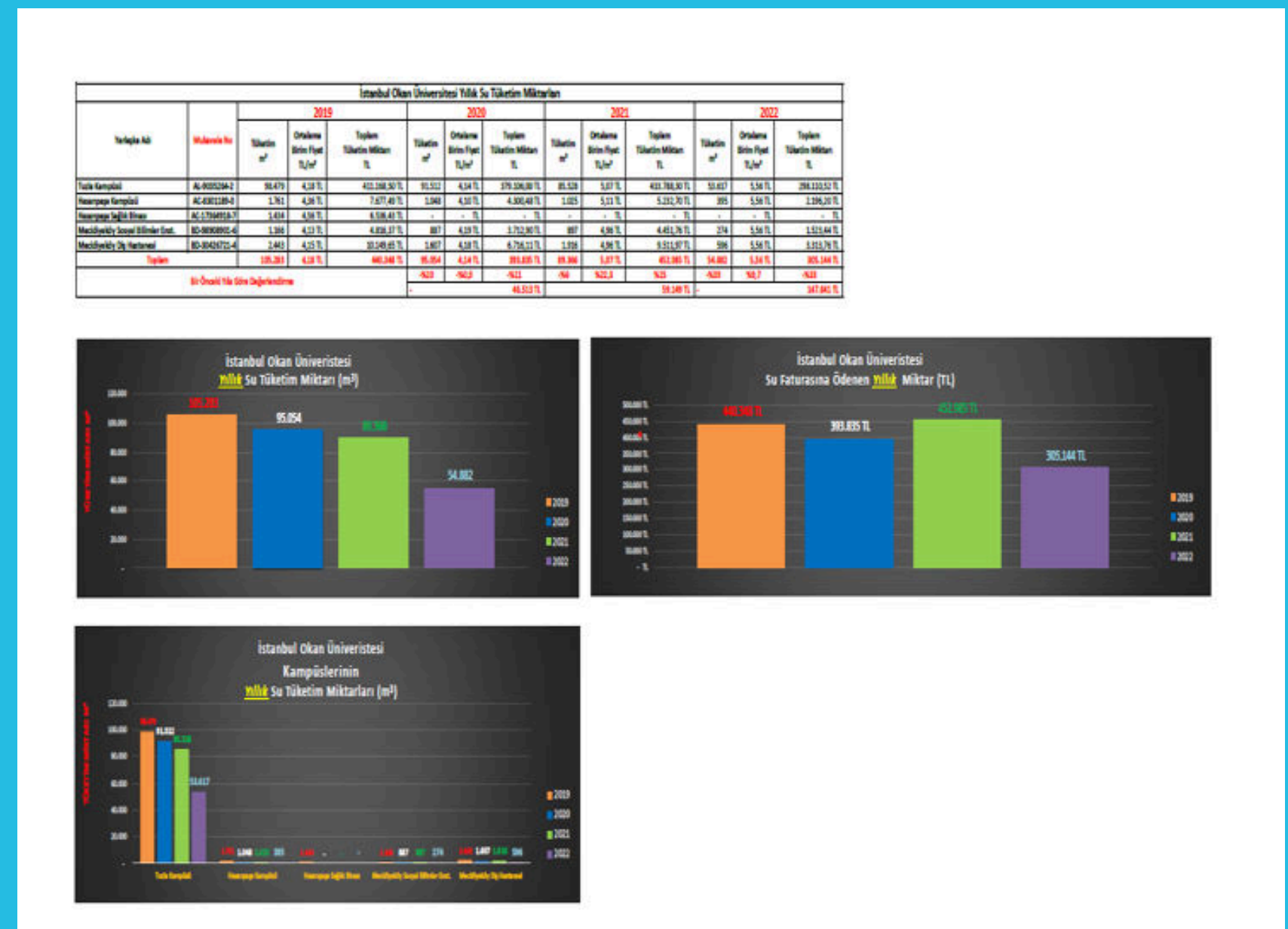
The Importance of Water in OKAN

Water is very important for our university and it has policies regarding this, for example tap water measurement policy. Additionally, collected rainwater and wastewater are transformed into a resource for gardening and artificial lakes on campus. Artificial lakes have a system with circulation engines. The campus water system has an overall zero waste policy and is managed daily. Annual water consumption in 2019: 105,283 m³ Annual water consumption in 2020: 95,054 m³ Annual water consumption in 2021: 89,366 m³. Collected rainwater and wastewater are treated in a water pump station and used for artificial lakes and horticulture.

Rainwater and wastewater collected in the treatment facilities on campus are recycled and used for landscape irrigation. Drought-tolerant plants have been partially planted in campus gardens.

In the biological treatment system, the treated water (grey water) is used for landscaping.

Although the university makes extensive use of water-waste and rain harvesting, overall approximately 70% of wastewater is reused in horticulture and artificial lakes.



SDG 6: Publications

4 Publications has been published until 2022 related to SDG 6

Söyleyici Cergel, M., Demir, E., Atay, F. (2019).The effect of the structural, optical, and surface properties of anatase-TiO₂ film on photocatalytic degradation of methylene blue organic contaminant. *Ionics*,25(9) 4481-4492

Akay, O., Özer, A.T., Fox, G.A. and 1 more (...) (2018).Application of fibrous streambank protection against groundwater seepage erosion. *Journal of Hydrology*,56527-38

Yasar, A., Can Dogan, E., Ayberk, H.S. and 1 more (...) (2022).Water Recovery from Urban Wastewater for Irrigation using Ultrafiltration and Nanofiltration: Optimization and Performance. *Clean - Soil, Air, Water*,50(12)

Elcik, B.E., Ozdal, T. (2021).NANOMATERIALS MEDIATED WATER TREATMENT. *Nano-Biotechnological Advancements in Environmental Issues: Applications and Challenges*,25-64

Source: SciVal



SDG 6: Course Contents

Course Code	Course Name	Department
İNŞ403	Water Supply and Sewage Systems	FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF CIVIL ENGINEERING
İNŞ407	Water Resources Engineering	FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF CIVIL ENGINEERING
İNŞ419	Groundwater Hydraulics	FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF CIVIL ENGINEERING
İNŞ454	Water Power	FACULTY OF ENGINEERING AND NATURAL SCIENCES DEPARTMENT OF CIVIL ENGINEERING



