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.



Istanbul Okan University | SDG 6 Progress Report 2022



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.

7 CLEAN ENERGY 8 ECONOMIC GROWTH 9 INDUSTRY, INNOVATION 10 REDUCED 11 SUSTAINABLE CITIES 12 RESPONSIBLE AND ADD PRODUCTION AND PRODUCTION AND PRODUCTION Image: Constant Energy Image: ConstantEnergy Image: Constant Energy Image: 16 PEACE.JUSTICE AND STRONG INSTITUTIONS 17 PARTINERSHIPS FOR THE GOALS 1 POVERTY Image: Strong **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.



AND SANITATION



SDG 6: Targets

5 Gender Equality

Ø

6 CLEAN WATER AND SANITATION

Ø

Goal 6.1:	To design and implement effective, efficient and inclusive water management.	Goal 6.5:
Goal 6.2:	To ensure efficiency in the use of water.	Goal 6.6:
Goal 6.3:	Protecting and restoring aquatic ecosystems.	Goal 6.7:

 8 ECONOMIC GROWTH
 9 INDUSTRY, INNOVATION
 10 REDUCED
 11 SUSTAINABLE CITIES
 12 RESPONSIBLE AND PRODUCTION

 Image: State of the sta

14. LIFE BELOW WATER

Goal 6.4:

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

Istanbul Okan University | SDG 6 Progress Report 2022





Increasing water recycling and reuse.

Ensuring sustainable water supply.

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.

10 REDUCED INEQUALITIES

Indicator 6.6:

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

Indicator 6.7:

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

Indicator 6.8:

Istanbul Okan University | SDG 6 Progress Report 2022 -





- Number of buildings using technologies that enable water reuse such as reducing water losses and using gray water by performing inspections, monitoring and controls.
- Number of events held to increase stakeholders' knowledge and awareness.

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

SDG 6: Clean Water and Sanitation

 7 EFERDABLE AND SOCIEDAN ENERGY
 8 ECCNNWICK AND ECONOMIC GROWTH
 9 INDUSTRY, INNOVATION NO INFRASTRUCTURE
 10 INEQUALITIES
 11 SUSTAINABLE CITIES
 12 RESPONSIBLE AND PRODUCTION AND PRODUCTION
 13 CLIMATE
 14 WATER

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

16 PEACE. JUSTICE AND STRONG INSTITUTIONS

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.

Istanbul Okan University | SDG 6 Progress Report 2022





Ňŧ**Ť**ŧŤ

17 PARTNERSHIPS FOR THE GOALS



SDG 6: Clean Water and Sanitation

8 DECENT WORK AND CONMIC GROWTH 9 INDUSTRY, INNOVATION 10 REDUCED IN AND INFRASTRUCTURE 10 INEQUALITIES 11 SUSTAINABLE CITIES 12 RESPONSIBLE CONSUMPTION AND PRODUCTION AND PRODUCTION AND PRODUCTION AND PRODUCTION

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.









1 NO POVERTY

Ňŧ**Ť**ŧŤ

3 GOOD HEALTH **4** QUALITY EDUCATION

Ø

)

17 PARTNERSHIPS FOR THE GOALS

8

16 PEACE, JUSTICE AND STRONG INSTITUTIONS

stanbul Okan Üniversitesi Yillik Su Tüketim Miktarları									
	2020			2021			2022		
plen n Million 11	Tilatin n'	Otalana Brin Fyst TUM	Topien Tühatin Militan TL	Nation at	Otalena Stimflyd TJW	Tajian Talatin Mikan Ta	Tilatin a'	Oradama Sirin Ryat Tu/W ¹	Topien Tülarin Militan T
411.168,5011	\$1.512	4341	191306.001	8.53	SUL.	411.788,50 TL	53.607	5.56 TL	26103.52 %
7.677,4970	1948	43012	4.300,4871	195	5,111	5,332,70 %	395	5.56 %	1196,217.
6.586,4875	1	- 1	- R			- R	1	. 1	- 1
4.006.07%	107	419 TL	3,712,90%	112	4,961	440,51	214	5.56 TL	19341
101663	187	4181	67562178	1.938	4.911	\$511,971	596	5.56 R	\$313,74 TL
10,341 %	8.84	4,14%	R1467	10.306	1,013	#12,065 TL	14.00	1361	HOL JAN TL
	400	-903	-511	- 194	821.1	33	48	347	- 811
- 8	+		46.5371			59,349 11	-		312461

SDG 6: Publications

4 Publications has been published untill 2022 related to SDG 6

8 DECENT WORK AND 9 INDUSTRY, INNOVATION 10 REDUCED 11 SUSTAINABLE CITIES 12 RESPONSIBLE AND PRODUCTION AND PRO

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 I 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

Istanbul Okan University | SDG 6 Progress Report 2022





SDG 6: Course Contents

6 CLEAN WATER AND SANITATIO

Ø

8 DECENT WORK AND ECONOMIC GROWTH

ATION TURE 10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES 12 RESPONSIBLE CONSUMPTION AND PRODUCTION 13 ACTION

14 LIFE BELOW WATER

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

Istanbul Okan University | SDG 6 Progress Report 2022









Istanbul Okan University| SDG Progress Report 2022 This report prepared by Quality Management Department of Istanbul Okan University

