

SDG PROGRESS REPORT

on **SDG-12 RESPONSIBLE CONSUMPTION
and PRODUCTION**

**20
21**



SDG PROGRESS REPORT

ISTANBUL MEDENIYET
UNIVERSITY

**Istanbul Medeniyet University
Sustainability Office**

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SDG Icons

<https://www.un.org/sustainabledevelopment/news/communications-material/>

Sustainable Development Report Maps

<https://dashboards.sdgindex.org/profiles/turkey>

SDG Statics

<https://www.un.org/sustainabledevelopment/sustainable-development-goals/>

https://www1.undp.org/content/seoul_policy_center/en/home/sustainable-development-goals.html



Achieving economic growth and sustainable development requires that we urgently reduce our ecological footprint by changing the way we produce and consume goods and resources. Agriculture is the biggest user of water worldwide, and irrigation now claims close to 70 percent of all freshwater for human use.

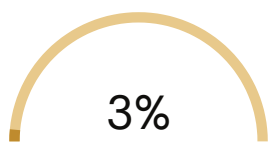
The efficient management of our shared natural resources, and the way we dispose of toxic waste and pollutants, are important targets to achieve this goal. Encouraging

industries, businesses and consumers to recycle and reduce waste is equally important, as is supporting developing countries to move towards more sustainable patterns of consumption by 2030.

A large share of the world population is still consuming far too little to meet even their basic needs. Halving the per capita of global food waste at the retailer and consumer levels is also important for creating more efficient production and supply chains. This can help with food security, and shift us towards a more resource efficient economy.

2 BILLION

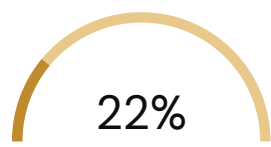
people are overweight or obese



of the world's water is fresh (drinkable), and humans are using it faster than nature can replenish it

120 BILLIONS\$

annually could be saved if people in the world switched to energy efficient light bulbs

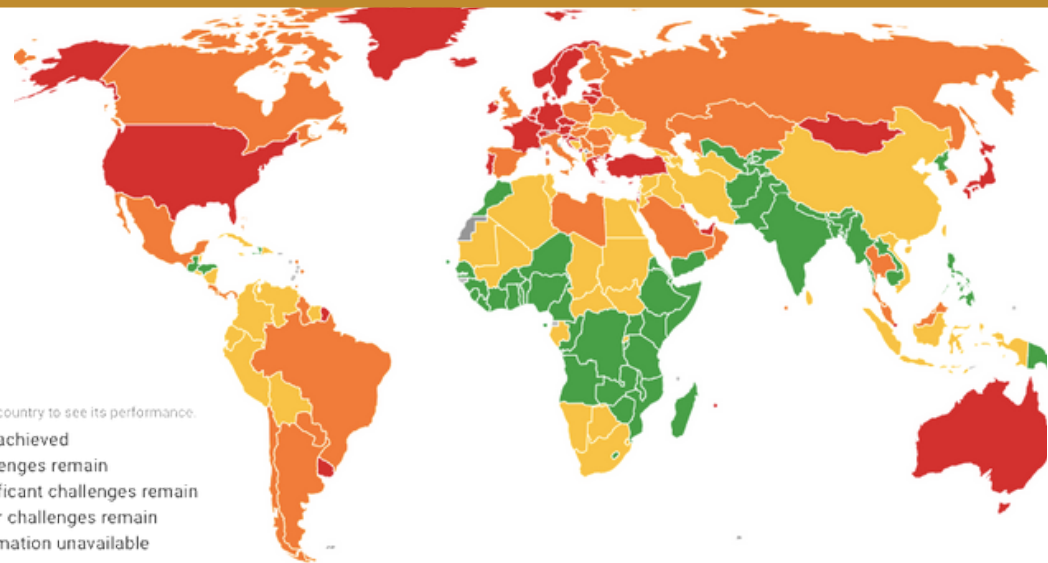


of total greenhouse gas emissions are generated by the food industry

1,3 BILLION

tonnes of food is wasted every year

- Click on a country to see its performance.
- SDG achieved
 - Challenges remain
 - Significant challenges remain
 - Major challenges remain
 - Information unavailable



10.663 METRIC TONS

waste sorted to recycle



filtering systems for wastewater



website for the achievement of SDGs to inform the campus community and the general public



zero waste program



license for medical waste



Policy on Waste Disposal and Waste Tracking

Istanbul Medeniyet University adheres to the provisions of the **Zero Waste Regulation** for waste disposal. In 2019, the university joined the Zero Waste Program carried out under the auspices of the Presidency of the Republic of Turkey as part of the Zero Waste Regulation to contain waste in line with the sustainable development goals and to leave a clean Turkey for future generations.

In order to implement the Zero Waste program in all our campus areas with maximum efficiency, meetings were held with all our academic and administrative staff for the purposes of informing them and raising awareness. In these training sessions, trainers assigned from Istanbul Provincial Directorate for Environment and Urbanization by the Governorship of Istanbul delivered informative presentations to our staff members about the implementation of the Zero Waste program and underlined what to do for correct applications.

In this context, we implement the **Zero Waste Program**, which involves preventing wastage, using the resources more efficiently, reviewing the reasons for waste formation, preventing or minimizing waste formation, and collecting and recovering waste at source separately. In this context, we removed the waste bins from the university's indoor areas and started to collect and sort recyclable waste in six categories. The waste sorted out at identified points in our campus areas are regularly delivered to the relevant municipal authorities for disposal, who also measure and report the amount of waste we collected.

In 2021, we generated a total amount of 10.663 metric tons of sorted waste in all our campus areas and delivered them to the municipal authorities to be sent to landfill or recycled.



10.663

METRIC TONS
waste sorted to recycle

”

Policy for Minimisation of Plastic Use and Disposable Items

As an institution, we adhere to the provisions of the Zero Waste Regulation for minimization of plastic use and disposable items and reduction of waste in general in line with the sustainable development goals. Thus, issues such as reducing the generation of waste and chiefly of plastic, which greatly damages aquatic, terrestrial, and aerial ecosystems, and recycling plastic waste form an integral part of our university's vision. In this context, we removed the waste bins from the university's indoor areas and started to collect and sort recyclable waste and chiefly plastic waste in six categories. Plastics that are thus saved from becoming garbage are delivered to the relevant municipal authorities for recycling.



Recyclable Waste Boxes

Istanbul Medeniyet University primarily follows a policy of reducing consumption to reduce waste. Therefore, certain strategies have been implemented to gradually reduce single-use plastics in the campus areas. For instance, our contract with the catering service provider for our lunch services contains a clause on serving meals in chinaware and using metal cutlery. Thanks to such practices, we prevent the use of single-use plastics in eating utensils and thereby reduce plastic waste generation in all our campus areas.



Lunch-related Waste Minimisation Policies

Istanbul Medeniyet University carries out practices that will contribute to the plastic reduction targets throughout Turkey. For example, in order to contribute to the goal of the **Packaging Waste Control Regulation** of 2017, which aims to reduce the annual use of plastic bags per capita to no more than 40, cloth bags are distributed to our staff members every year to be used as an alternative to plastic bags.



IMU Cloth Bags that are Distributed to Staff

“**1420 CLOTH BAGS** distributed to staff members to reduce using of plastic bag”

Waste Collection, Disposal and Minimization Policies Extended to Service Providers and Suppliers

Food waste can emerge at any stage of the process whereby food is delivered from the producer to the consumer; i.e., production, handling and storage, processing, distribution, and consumption. As Istanbul Medeniyet University, we seek to develop diverse operations for these different stages in order to reduce the food waste generated by our campus community. For instance, to minimize the food waste generated during transport, we have our catering service provider produce our lunches in our own campus kitchen. Thereby, we prevent the food waste that would be otherwise generated from production to consumption stages. In order to minimize the consumption-stage food waste, our salads and other side dishes are served in a way that our students and staff can get the sufficient amount they can consume, instead of portioning them ourselves in our dining halls. Thereby, we prevent a great deal of food waste.

Also, as for extending our policy for minimizing the amount of waste generated in our university, our contract with the catering service provider contains a clause on serving meals in chinaware and using metal cutlery to prevent the use of single-use plastics in eating utensils and thereby reduce plastic waste generation in all our campus areas.



Lunch-related Waste Minimisation Policies

Istanbul Medeniyet University expressly specified in its contract with the catering service provider that all the meals to be served to the university's students and staff shall be cooked and prepared in the campus kitchen on the premises and the service provider is fully responsible for collecting and containing the waste vegetable oils generated during cooking, distribution, and consumption of the food as per the

“Regulation on the Control of Waste Vegetable Oils”

issued by the T.R. Ministry of Environment and Urbanization on the legal technical principles and standards for the collection and disposal of waste vegetable oils without causing any harm to the environment. Our contractors are obligated to have contracts with the licensed waste oil recovery facilities and collectors with temporary storage permits and are to deliver the all waste vegetable oils they collect to these licensed facilities and firms. They are also obligated to dispose of non-recoverable waste oils in accordance with the provisions of the Regulation on the Control of Waste Vegetable Oils.

In our university, we have oil filters installed in the dishwashing sites in our campus kitchen and other facilities to prevent the oily wastewater from polluting the discharged water and the service provider is also responsible for regularly cleaning these filters and delivering the oil waste collected to ISTAC Inc., an affiliation of Istanbul Metropolitan Municipality that is in charge of waste management. ISTAC Inc. then converts the



collected waste oil into renewable energy sources such as biodiesel and biogas in its recovery facilities.

Our catering service provider is also legally obligated to sort out all the waste and garbage generated during food production and service, to transport them to the waste collection sites assigned by the municipality, and to take all the required measures to adhere to the legislation on waste disposal and the Zero Waste Regulation. The same obligations also apply to all other service providers and suppliers of the university, including our contractors for our cafeterias, the stationery store, and all the construction work inside the campus areas.

Publication of Sustainability Reports

IMU published its first [sustainable development goals annual report](#) for 5 different goals for 2020 thanks to the efforts of the International Performance Development Coordination Office. With the establishment of the IMU Sustainability Office in 2021, it has aimed to prepare annual sustainability development goals progress reports that will include all targets every year.

Sustainability Office also opened up a separate [website for the achievement of SDGs](#) to inform the campus community and the general public about the institution's activities toward sustainable development goals. Thanks to the SDG IMU website, the activities carried out in our university which contribute to achieving the SDGs can be shared with other researchers, our stakeholders, and the public along with their results following the activity and before the end-of-year reporting period and also, the training programs and events pertaining to SDGs can be announced to all those concerned.

These activities carried out by the Sustainability Office contributed to the increase in the level of awareness about SDGs throughout the institution. The only person in Turkey to individually sign the SDG Accord in 2021, Urban and Regional Planning Department Coordinator Res.Asst. Ayça ÇELİKBİLEK also prepared the [SDG Progress Report for the Urban and Regional Planning Department](#) of our University, and thus, a sustainability report has also been published for a sub-unit within our institution for the first time in 2021.



In addition to our operational efforts, we, as a university, also see our students as leaders of the future. Therefore, we aim for each and every one of our students to become leaders in the society in implementing sustainable development goals through their research and social responsibility projects and thus, support them in their efforts toward ensuring sustainable consumption and production patterns.

Yüstra TEMEL, a student of IMU Department of Preschool Education, developed a student project to raise awareness about waste management and waste recycling. Temel's project titled ["Don't Let our Tomorrows Go to Waste"](#) was consulted by Asst.Prof.Dr. Nihan ŞAHİNKAYA, and supported by Gül Nesil Private Kindergarten. The project was planned with the aim of creating "zero waste" and "recycling" awareness both among children and adults to activate them. With this aim, activities on zero waste and recycling were held for 9 weeks with the participation of 13 four-year-old children in the project school along with their families. To raise awareness about recycling, a game of sorting and recycling waste was played with the children and the information on the subject was transferred in accordance with the age level of the participants. Also, recycling bins were provided to the project school. Brochures were distributed to inform the target audience about zero waste and recycling. With the information given, the wastes suitable for recycling in the school and students' houses were collected and thrown into the recycle bins to contribute to recycling. As the last activity of the project, municipal teams were called to the school, and the wastes accumulated so far were correctly separated and delivered to the teams for recycling. At the beginning of the project, children could not distinguish between garbage and waste, but at the end of the project, it was seen that they threw waste materials into appropriate recycling bins without the need for external guidance.



Zero Waste Education for Kindergarten Students



Learning processes are key in achieving SDGs. Thus, universities play a critical role both by training professionals who will prioritize SDGs in their future practices and by increasing local, national, and global capacity to successfully achieve SDGs. As Istanbul Medeniyet University, we are fully aware of our critical role and thus aim to empower and motivate for SDGs not only our students through course contents, co-curricular activities, and student club activities, but also the community at large at a much wider scale. Therefore, we organize university-wide life-long learning activities, online courses, certificate programs, seminars, workshops, congresses, symposia, and panels that are open to all segments of society for participation. In 2021, we held a wide range of learning activities to improve access to basic services for all.

“We Have our Say for the Future 2021: Savings and Efficiency Symposium” organized by Üsküdar Directorate of National Education with the contribution of Istanbul Medeniyet University and Kadir Has University was held online on January 14, 2021 to raise awareness about the concepts among the students of the project high schools in Üsküdar district.

Asst.Prof.Dr. İsa YILMAZ from our Faculty of Political Sciences delivered his speech on **“The Importance of Saving for Development”**, in which he underlined that preventing waste of resources is of great importance for the efficient distribution and sustainability of resources and the aims of sustainable growth, a developed economy, and fairness in income distribution can be achieved with the incorporation of the savings approach into the national economy. Two faculty members of our Faculty of Engineering and Natural Sciences, Prof.Dr. Sevda AVCI and Assoc.Dr. Hasan KÖTEN, made presentations on **“Saving in Technology”** and **“Efficiency and Technology Production”**. In their presentations, our faculty members discussed how to use resources efficiently in the technologies produced. The importance of designing the technology developed as engineers in accordance with recycling was also emphasized.

Young Green Crescent Club, one of the student clubs of our university, organized the 101st Year Speeches Series, where Dietitian Aybüke BALLICA participated with her speech on food addiction titled **“The Effect of the Developing Food Industry on Food Addiction”**. BALLICA talked about the effects of packaged foods on human health, the ingredients added to extend the shelf life of packaged foods, the importance of reducing global food waste, the chemicals used to make it more palatable and triggering the addiction point of the brain. She also mentioned the types of eating disorders, what causes them and what needs to be considered for a healthy lifestyle.

The poster is for a seminar titled "Gelişen Gıda Endüstrisinin Bağımlılığa Etkisi" (The Effect of the Developing Food Industry on Food Addiction). It is organized by the Istanbul Medeniyet Üniversitesi Genç Yeşilay Topluluğu (Young Green Crescent Club) on March 5, 2021, during the 101st Year Green Week (101. YIL KONUŞMALARI). The speaker is Dietitian Aybüke BALLICA. The poster features the university logo, the Green Crescent Club logo, and a photo of the speaker holding a fruit. A large circular logo for the "Sustainability Report 2021" is overlaid on the poster.

IMU Career Club, one of the student clubs of our university, hosted Halit Buğra ÇELİK, from the field of textile, under the topic of **“Sustainable Fashion and Entrepreneurship”** at the event held online on October 20, 2021. ÇELİK stated that the ready-made clothing and textile industry is the largest sector in the world in terms of greenhouse gas emissions constituting 10% of the total carbon emissions. He mentioned the environmental and material footprint of the fabric industry. He stated that their goal is to reduce the impact on global climate change by producing products with materials suitable for recycling. In addition, he underlined that they are trying to minimize environmental damage by planting a tree for each product sold by the brand.



The 26th seminar of the “**Istanbul Urban Studies**” seminar series organized by the Department of Urban and Regional Planning was held online on November 24, 2021. Prof. Dr. Nurhan YENTURK and Işık BAŞTUĞ presented their study titled “**İklim Krizi ile Mücadelede Belediye Bütçeleri ve İstanbul Örneği**” (Municipal Budgets in the Fight against Climate Crisis and the Case of Istanbul). The researchers shared the results of their research report published in November 2021 titled ‘Türkiye’de Çevre Koruma ve İklim Değişikliği ile Mücadeleye Ayrılan Kamu Kaynaklarının İzlenmesi’ (Monitoring of Public Fundings Allocated to Fight Against Environmental Protection and Climate Change in Turkey) via their presentation. They analyzed the public expenditures run by municipalities and their co-partners to fight against environmental protection and climate change under 4 categories; renewable energy usage and energy efficiency-based mitigation management; adaptation expenses, waste management and other expenses like nature protection, environmental awareness training and environmental management. Researchers evaluated Kadıköy Municipality’s related budget and said that 75% of the budget is allocated for cycle route construction, solar energy usage and waste-free street projects, all of which serve as mitigation projects.

IMU Career Club organized an online event on November 5, 2021, and Adem KAYAR took part as a speaker with the topic of “**Industry 4.0 and Digitalization**”. KAYAR talked about the industrial innovations brought by applications such as smart reactor application, basket traceability application, bench traceability application and web robot application developed in factory automation systems and the importance of the economic productivity provided by these innovations in the industry. He explained that thanks to the consultancy they gave to the digital transformation of enterprises by making use of these applications, factory production systems have switched to cloud technology, production processes have become easier and the resource use in production has been reduced.

Our University’s Psychology Club organized an online event called “**Sustainable Living: Global Climate Change and Water Management**” on May 27, 2021. The speaker of the event was Prof.Dr. Erkan ŞAHİNKAYA from our University’s Bioengineering Department. In this event, global climate change, which has become a major threat to the world, was addressed and aimed to raise awareness on this issue. In addition to climate change, topics such as water management and sustainable life were also discussed and the steps that people would take towards climate change were emphasized. He touched upon the measures that can be taken to ensure the sustainable management and effective use of natural resources until 2030.



İSTANBUL MEDENİYET ÜNİVERSİTESİ
Sanat, Tasarım ve Mimarlık Fakültesi

İSTANBUL Kent Araştırmaları

Şehir ve Bölge Planlama Bölümü
Seminer Serisi -II

Prof.Dr. Nurhan YENTÜRK
İstanbul Bilgi Üniversitesi

Işık BAŞTUĞ
Kadıköy Belediyesi İklim Elçileri

İKLİM KRİZİ İLE MÜCADELEDE BELEDİYE BÜTÇELERİ VE İSTANBUL ÖRNEĞİ

24 Kasım 2021
13:00

Moderatör
Ar.Gör. Ayça ÇELİKBİLEK

Seminar on
Municipal Budgets in the Fight against Climate Crisis

İSTANBUL MEDENİYET ÜNİVERSİTESİ
PSİKOLOJİ TOPLULUĞU

SÜRDÜRÜLEBİLİR YAŞAM: Küresel İklim Değişikliği ve Su Yönetimi

Prof.Dr.
Erkan ŞAHİNKAYA

27 MAYIS 21:00

Seminar on Sustainable Living

The academic staff members of our university carry out research on implementing the 10-year framework of programmes on sustainable consumption and production; sustainable management and efficient use of natural resources; halving per capita global food waste; sound management of chemicals and all wastes; substantial reduction of waste generation; encouraging companies to adopt sustainable practices and sustainability reporting; promoting sustainable public procurement practices; promoting universal awareness for sustainable lifestyles; supporting developing countries to strengthen their scientific and technological capacity for sustainable consumption and production; developing and implementing tools to monitor sustainable tourism; and removing market distortions that encourage wasteful consumption, publish the results of their research and share them with other researchers, decision-makers, stakeholders, and the public as a foundation for policies toward achieving SDGs.

The invention titled **“Combined Multi-Source Energy Harvesting and Communication Management System”** developed by Asst.Prof.Dr. Doğay ALTINEL from the Department of Electrical and Electronics was found eligible for a patent by the US Patent and Trademark Office (USPTO) and the patent was registered on January 12, 2021. The patented system aimed to provide energy transition to wireless devices with a common energy harvesting method and to present a communication management solution. In this smart system, the energy obtained from different sources in the environment is used for communication purposes in accordance with the management strategy. Thus, it was aimed to increase global energy efficiency by reducing the need for battery replacement and providing operational convenience, cost advantage and energy efficiency. In this way, it was aimed to reduce environmental pollution by reducing the use of batteries.

A research article titled **“A Study of Plate Waste in a Food Service”**, co-authored by Asst.Prof.Dr. Hülya YILMAZ ONAL of IMU Department of Nutrition and Dietetics, the researchers aimed to determine the amount of plate waste of the personnel eating in a hospital food hall and to evaluate according to the food types. Using a cross-sectional trial design, they analyzed the amount of plate waste per person in a food hall of a state hospital in Istanbul and after weighing 16,722 people's plate waste, they found that 6.2% of the edible food that was served was disposed. The average amount of waste at dinner was found to be less than lunch. According to the type of food, pastry desserts were disposed the least in lunch and the most in dinner. The authors concluded that in order for countries to create plans for preventing food loss and waste, they must first conduct waste measurement research in every field of the aspect. Measuring food waste in institutional food services, determining the reasons, and informing the consumers are necessary for the continuation of sustainable development.

The article **“Challenges of Invoking Environmental Rights Before The Turkish Constitutional Court: Mehmet Kurt Case”** on environmental rights written by Asst.Prof.Dr. Feyzan OLGUNSOY, member of the Faculty of Law has been published in the Journal of Istanbul Medeniyet University Faculty of Law. In the article, OLGUNSOY examined the difficulties that may arise in bringing the right to live in a healthy environment before the Constitutional Court in the context of the right to life and exemplified factors such as the failure of companies with increasing industrial activity in industrial waste management and increasing amounts of greenhouse gases due to the accompanying environmental destruction, loss of biodiversity in the land, consumption of natural resources and release of harmful substances as the main issues that result in the destruction of the environment. The study results revealed the problematic aspects of individual application to protect environmental rights in Turkey, highlighting the state's positive obligations in environmental issues.



RESEARCH

İMÜ

Yasin SAYGILI, Research Assistant of the Art History Department of our University, presented a research paper in the Information and Experience Sharing Conference on Research, Protection and Promotion of Immovable Cultural Heritage Sites of the Ottoman Period that was held in Edirne on July 13-14-15, 2021. In his presentation titled "Corona Sonrası Turizm" (Tourism After Corona), SAYGILI stated that sustainable tourism between Edirne and Harmanlı was adversely affected during the pandemic and added that cross-border cooperation and solutions should be produced for the problems that may arise from the pandemic.

