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12 COORESPONSIBLE CONSUMPTION AND PRODUCTION

12.2.4.1 Policy waste disposal - landfill policy

Ege University adopts the zero waste principle as much as possible and aims to reduce the amount of waste going to landfill

	How do we measure?
Packaging and paper waste	Ege University packaging wastes are collected, weighed and quantified against receipts and entered into the zero waste
Electronics and waste hattery	system The wastes are given by weighing
Electronics and waste pattery	The wastes are given by weighing to be recycled in the machine-chemical industry company
Waste oil	The oil wastea are given to habitat, a company that recycles vegetable waste.
Organics	
Lab chemicals	MOTAT system, Ege University tracks the hazardous waste in MOTAT system which is online system of Ministry of Environment
Landfill	
	Electronics and waste battery Waste oil Organics Lab chemicals









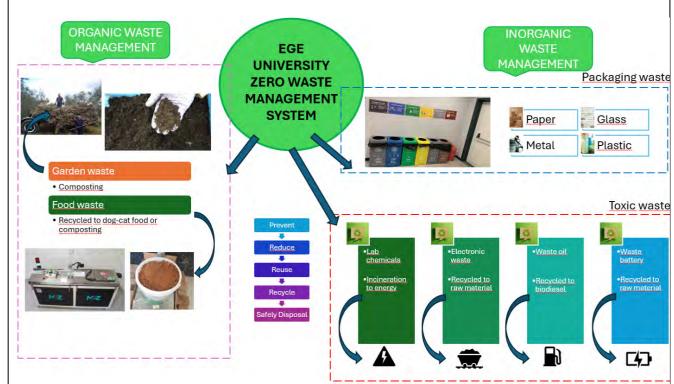
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AND PRODUCTION



Studies in new period

"World Environment Day" was celebrated at EÜ with a full program. The importance of second-hand use was explained to students through a swap market. In addition, the PS Lifestyle carbon footprint project was introduced to all students. Students who measured their carbon footprints learned what they could do for a more environmentally friendly life.





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https://x.com/egeajans87/status/1798630607779704956/photo/4

On 05.06.2024 at 13:30, the Faculty of Fine Arts, Design and Architecture will host an Online Photo Exhibition on Environmental Awareness



https://x.com/EUCevreMerkezi/status/1797532343303024963/photo/1





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RESPONSIBLE CONSUMPTION AND PRODUCTION

With the event we organized in our cafeteria, we prevented packaging waste from mixing with organic waste.



https://x.com/EUCevreMerkezi/status/1791469578876338465/photo/1





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12 COORDINATION

We held the 5th Greenmetric Turkiye National Workshop with the participation of our Rector Prof. Dr. Necdet BUDAK and Dr. Nyoman Suwartha and Dr. Ruki Harwahyu from the Greenmetric Organizing Committee team of the University of Indonesia.

https://x.com/EUCevreMerkezi/status/1782409152431636925/photo/2

We provided awareness training to the staff and students of the Faculty of Dentistry on zero waste and carbon footprint.



https://x.com/EUCevreMerkezi/status/1780226301464281529





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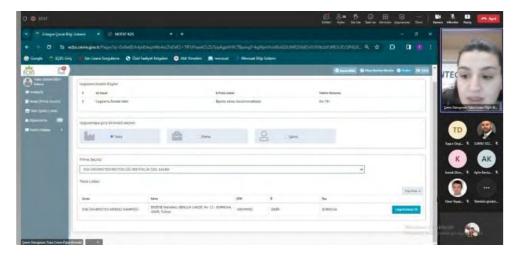
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https://x.com/EUCevreMerkezi/status/1773690584655442049/photo/3

We held our training meeting for the declaration of hazardous waste to the system of Environmental Ministry.



https://x.com/EUCevreMerkezi/status/1759563746911846808/photo/2





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12 COORSIBLE CONSUMPTION

What is Our Carbon Footprint? Project



https://x.com/EUCevreMerkezi/status/1747609045819642069

As a result of our devoted efforts at our university, we are proud to be ranked 96th among 1183 universities in the world in the Greenmetric 2023 Green University rankings







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https://x.com/EUCevreMerkezi/status/1746855516280639693

Ege University implements an "Integrated Waste Management System" to ensure the environmentally safe disposal of hazardous wastes generated from educational, academic, research, and service activities.

In the approach of "Waste Management," the "Leaf-Branch-Trunk" model is employed, encompassing processes from the point of waste generation to its environmentally sensitive disposal. "Waste Reduction" constitutes the backbone of our university's <u>Sustainable Green University policy</u>, implemented since 2017.

Ege University has become one of the 10 pilot universities where the protocol will be implemented as a result of the sustainable studies it has carried out with the slogans of "Green Campus" and "Climate-Friendly Campus". Ege University Zero Waste Action Plan was prepared to move from the basic level to Silver, Gold and Platinum levels, aiming for the smooth operation of the zero waste system and waste reduction. Ege University has established a Zero Waste commission for the realization and follow-up of these works. As of 2023, activities will be carried out according to the action plan.

REDUCE



Ege Üniversitesi Sıfır Atık Eylem Planı



Ege University Zero Waste Action Plan

The model used in the "Waste Management" approach in Ege University is the "Leaf-Branch-Trunk", and it covers the processes from the starting point where the waste is produced to its disposal in an environmentally friendly way. The backbone of our university's waste management policy is "Producing No Waste".





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Zero Waste Plan was presented to our Senate members with the participation of our Rector.



Sıfır Atık Yönetim Hiyerarşisi



<u>Atık Önleme</u>; Üretim sonrası kullanım sonucu üretilen atığın gerekli tüm tedbirler alınarak oluşumunun engellenmesi.

Atık Azaltım: Tüketim/Kullanım sonucu ortaya çıkan atık miktarının gereksiz tüketim yapılmasının önüne geçilerek azaltılması.

<u>Yeniden kullanım:</u> Üretilen atıkların başka bir ürün oluşturmakta kullanılması.

<u>Geri dönüşüm:</u> Atıkların fiziksel ve kimyasal işlemlere tabi tutularak yeniden üretime geri kazandırılması işlemidir.

Geri kazanım: İşletmelerde kullanılan hammadelerin yerine atıkların fiziksel ve kimyasal işlemlere tabi tutularak yeniden kullanılması. Örneğin Anaerobik ortamda (oksijensiz) çürütme ve termal yöntemlerle enerji elde edilmesi enerji geri kazanımıdır.

Geri Kazanım

Geri Dönüşüm

Yeniden Kullanım

Atık Azaltma

Önleme

Sıfır Atık Eğitimi-Çevre Sorunları Uygulama ve Araştırma Merkezi-Ege Üniversitesi-2019

Ege University Zero Waste Management Hierarchy Prevent-Reduce-Reuse-Recycle-Recover https://cevremerkezi.ege.edu.tr/files/cevremerkezi/icerik/Sifir_Atik_Sunum_PDF.pdf

Type of waste in EU

Type of waste	Contents	Unit	Collection box (color)
Packaging	Paper	All campus	Blue



Country



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Turkey

CD / ladi C33 .	vww.cgc.caa.ti		
	Plastic		
	Glass		
	Metal		
	Composit		
Hazardous	Solvents, etc	All campus	Special box
	Fluorescent lamp,		
	Cartridge,		
	Battery, toner		
Medical	Syringe	Medical campus and	Red
	Slide	biology, pharmacy	
	Lamella	laboratory	
	Tissue, organ parts, etc	•	
Electronic	Obsolete computer	All campus	Special box
	parts, cables, electronic		
	gadgets		
Organic	Food waste	Dining hall and	Brown
-		guesthouse, dormitory	
Masks and gloves in	Masks and gloves	Medical departments	Grey
Pandemi	C	1	•
Others	Non-recyclable	All campus	Grey





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RECYCLE



Bioengineering Department



Dining Hall



University



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Ödemiş Vocational School (Different campus of Ege)

1. Our packaging waste, which was 2 in the previous period, was divided into 6 in the new period and a video was made to explain it to all units.

2.

(https://drive.google.com/file/d/18p9Yr67sdUbaEHq_Lq1mTUuvn3zrepOP/view?userstoinvite=berna0838 @gmail.com&sharingaction=manageaccess&role=writer&ts=652e87bf)



- 3. Within the framework of our Sustainable and Climate-Friendly Campus project, we placed Mobile Waste Collection Centers at the metro entrance of our Faculty of Dentistry and Medicine and Ege University.
- 1. (https://twitter.com/EUCevreMerkezi/status/1635621594558091265)

Within the scope of the "Sustainable and Climate-Friendly Campus" project at Ege University, "Mobile Waste Collection Centers" were placed at different points of the campus. There are paper, glass, plastic, metal, electronic waste, waste oil and waste battery units in the waste centers located at the EU Campus metro entrance, Faculty of Dentistry and Faculty of Medicine.

(https://www.euegeajans.com/index.php/2023/03/15/ege-universitesi-sifir-atik-hedeflerine-dogru-onemli-bir-adim-daha-atti/) Mobile Waste Bringing Centers will serve both as awareness raising points and as points where our visitors, students and staff can bring their waste.





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2. Compost machine



"At Ege University; Grass, vegetable, fruit, cooked food waste and tea and coffee pulp are transformed into compost, which is a good nutrient for the soil, as a result of the 24-hour process. "In addition, this machine can also make cat and dog food with different organic waste contents."

(https://www.euegeajans.com/index.php/2023/06/23/ege-universitesi-organik-atiklari-kompostadonusturuyor/)

3. Waste Battery

Online meeting with our vice-rector and waste coordinators



Online meeting on "Waste Battery Training" with our Faculties of Dentistry, Agriculture, Pharmacy, Engineering and Nursing.

4. Electronic Wastes





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Department of Information Technology electronic waste

Since electronic wastes are fixed assets, they are kept by the financial departments of the units on our campus and sent to the Machinery and Chemical Industry with a receipt in accordance with the laws of our country. In addition, mobile waste centers have areas open to the public where electronic waste can be disposed of.



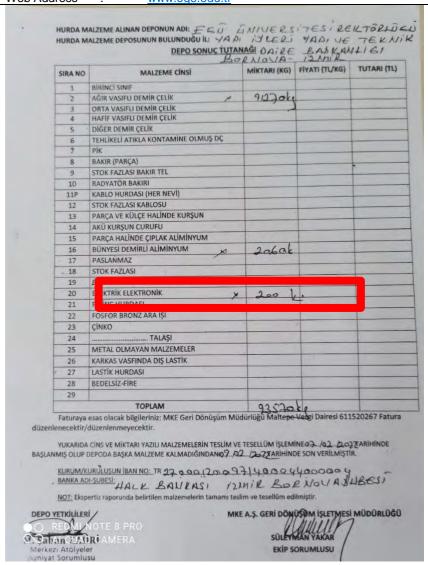


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5. Toxic wastes

The management of hazardous waste management in our campus continues on a regular basis, as in previous years. In order for the management to be carried out in an orderly educations are carried out on a regular basis for staffs.





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6.



T.C. İZMİR VALİLİĞİ Çevre ve Şehircilik İl Müdürlüğü



Belge No: TS/35/B2/6/1

SIFIR ATIK BELGESİ

Tarih: 05/11/2020

(Temel Seviye)

Adı : EGE ÜNİVERSİTESİ MERKEZ KAMPÜSÜ

Adresi : ERZENE Mahallesi, GENÇLİK CADDE, No: 12 -, BORNOVA, İZMİR, Türkiye

Vergi No : 3250080230

12/07/2019 tarihli ve 30829 sayılı Resmi Gazete'de yayımlanarak yürürlüğe giren Sıfır Atık Yönetmeliği'nce Sıfır Atık Yönetim Sistemi'ni kurarak **Sıfır Atık Belgesi**'ni almaya hak kazanmıştır.

Belge Son Geçerlilik Tarihi: 05/11/2025

e-imzalıdır
ÖMER ALBAYRAK
Çevre ve Şehircilik İl
Müdürü Vekili

Bu belge, güvenli elektronik ımza ile imzalanmıştır

Belge Doğrulana Adresi: https://www.turkiye.gov.tr/cevre-ve-schircilik/bakanligiBelge Doğrulana Kosla / IDKTUHXT





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Zero Waste Management Certificate awarded by the Ministry of Environment and Urbanization (Until 2025)

Ege University was chosen as the leading university within the scope of the 'Zero Waste' Project initiated by the Ministry of Environment and Urbanization. Ege University was the first state university to implement the project, which was initiated to use resources more efficiently and reduce the amount of waste.

REUSE

FOR REDUCING AND REUSING ACTIVITIES OF EGE UNIVERSITY

PLEASE CLICK ON:

https://docs.google.com/document/d/1b-Ju4TootmaAlUGtlhdW-uimcaqMwogb/edit?usp=sharing&ouid=108883232192648074080&rtpof=true&sd=true









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Ege University Faculty of Science departments, Statistics, Astronomy and Space Sciences and Mathematics Departments, Physics - Chemistry Department and Biochemistry - Biology Departments, in order to reduce waste, prevent waste, encourage recycling and thus spread the "Zero Waste Philosophy" studies have been carried out.

"Waste-Art" figures were created by using waste plastic bottles, symbols representing the working areas for each section.

"Column Graph" for the Statistics department, "Pi Number" for the Mathematics Department, "Atom" for the Physics-Chemistry Departments and "DNA Spiral" figures for the Biology-Biochemistry Departments were made by our students and placed at the building entrances.

In this way, it is aimed to raise awareness among our students and academic-administrative staff studying in those blocks and to increase the widespread effect of the zero waste philosophy.





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The Portable Battery Manufacturers and Importers Association (TAP, https://tap.org.tr) was contacted and provided Waste Battery boxes for all of our departments on each floor. At the same time, posters prepared by TAP were procured and placed on these waste battery boxes on the floors to raise awareness. On the other hand, it was aimed to raise awareness of environmental protection by distributing Small Waste Battery boxes



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to the rooms of all our academic and administrative personnel in our departments, and this service was offered up to the offices.



Ege University implements an integrated waste management system. Within the scope of this waste management, packaging wastes, hazardous wastes, organic wastes, etc. are managed in accordance with the zero waste regulation. As a result of these applications, Ege University was entitled to receive the first document given in the images above.

We have a zero waste booklet and a green university guide to raise awareness of students, academics, staff and the public on the subject.



Within the scope of the zero waste project, indoor recycling bins (5200 units) were placed in all buildings within the University, and outdoor recycling bins (94 units) were placed outside of all buildings.

The temporary storage area was equipped with high-volume garbage containers (4 units) to store recyclable waste collected from university buildings.





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Delivery minutes stating that we have delivered the wastes to the recycling company

A zero waste system has been established in all departments of the university and the data are followed by authorized personnel every day.

Example of Recycling Program for University Waste (Ege University, Turkey)



Turning small amounts of organic waste generated in departments into compost - Bokashi Compost

Click the link below for the composting video;

https://drive.google.com/file/d/12TzOd8qlWh77hpn3RrOEbXjFje37UoH0/view





riplate for Evidence(s)

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The plant material used in the production of biochar and a simple - easy mechanism for obtaining biochar



Biochar from plant material

Biochar obtained from plant wastes is used as soil improvement material in our university.





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Within the scope of the Student Orientation Program, E.U zero waste management applied on our campus is explained online by the Research-Oriented Student Center to undergraduate and graduate students.

Researcher Student Orientation Program



A "Cooperation Protocol in the Field of Creating a Sustainable and Climate-Friendly Campus" was signed between the Council of Higher Education (YÖK) and the Ministry of Environment, Urbanization and Climate Change and the Ministry of Energy and Natural Resources. Ege University has become one of the 10 pilot universities where the protocol will be implemented as a result of the sustainable studies it has carried out with the slogans of "Green Campus" and "Liveable Campus".





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Delivery receipt stating that we have delivered the wastes to the recycling company

A zero waste system has been established in all departments of the university and the data are followed by authorized personnel every day.





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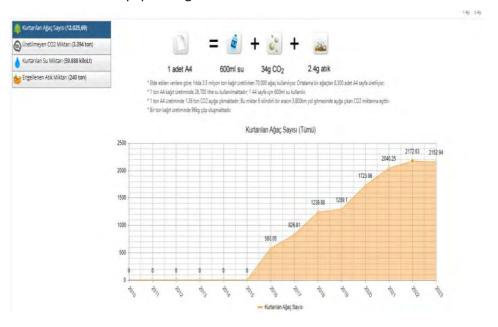
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The disposal of non-recyclable wastes is provided by sending them to the landfill by municipal vehicles according to the protocol made with the Izmir Bornova Municipality

Electronic Document Management System (EDYS) and automation systems known as enVision were built to reduce the amount of paper usage inoffices and educational facilities.



The recovered tree = 12025 tree Prevented CO_2 emission = 3394 metric ton Amount of water recovered = 59888 kiloliters The amount of waste reduced =240 metric ton





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Within the scope of the zero waste project, indoor recycling bins (5200 units) were placed in all buildings within the University, and outdoor recycling bins (94 units) were placed outside of all

The temporary storage area was equipped with high-volume garbage containers (4 units) to store recyclable waste collected from university buildings.





Each unit contains waste bins made of recycled material. Recycling bins are available in every unit of our university and they are collected by the county municipality.





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Organic Waste Treatment

Our university conducts composting studies of chicken manure and barn manure and composting of tobacco and oily thyme waste. At the same time, some of the dining hall waste is composted. In addition, a project was submitted to the Ministry of Environment for composting all organic wastes generated at the university. A compost machine was requested within the scope of this project (image of the compost machine and the project cover page are given above). The project we presented has passed the pre-selection.

Scientific research projects are carried out in our Faculty of Agriculture on the production and use of compost in our university. One of them is "Use of Composted Tobacco Waste as an Alternative to Barn Manure in Vegetable Production and Its Effects on Soil Properties: Lettuce Case project.

This research is carried out by E.U. Faculty of Agriculture Menemen Research and Application Farm was conducted in the trial area. Tobacco wastes taken from İzmir Kemalpaşa Socotab factory were composted and applied to 6 m² parcels together with barn manure. Lettuce was used as a test plant and 30 plants were planted in each plot. The changes in soil physical and chemical properties and yield of lettuce were investigated.



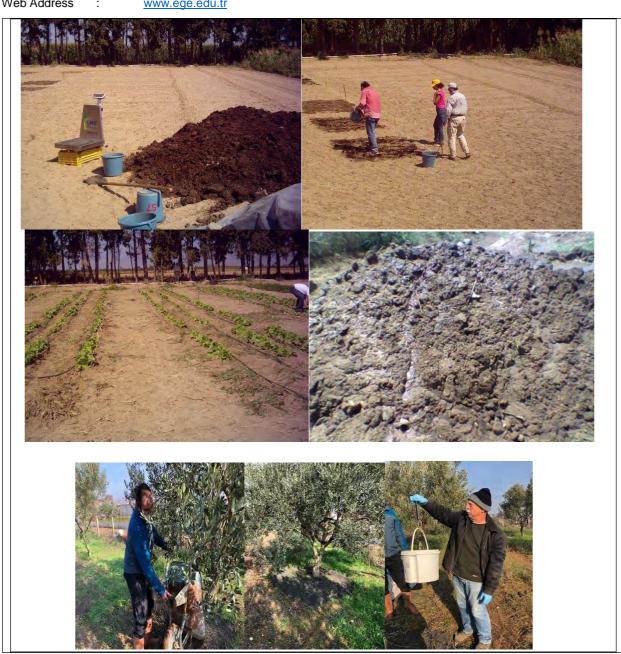


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Example of Organic Waste Treatment (Ege University , Turkey)





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A compost machine was purchased for our trip in the new term for the treatment of cafeteria waste. Daily compost production continues with this machine. (https://www.euegeajans.com/index.php/2023/06/23/ege-universitesi-organikatiklari-komposta-donusturuyor/





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We have a zero waste booklet and a green university guide to raise awareness of students, academics, staff and the public on the subject. Zero waste training periodically by the environmental problems application and research center, workshops are held.



Description:

Zero Waste Practices are compulsory for two weeks within the scope of the Introduction to University Life course for first year university students. In addition, Zero Waste and Hazardous Waste Management issues are taught to all graduate students at the beginning of each year within the scope of the orientation program.

Additional evidence link:

https://drive.google.com/file/d/12TzOd8qIWh77hpn3RrOEbXjFje37UoH0/view





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https://www.euegeajans.com/index.php/2022/10/05/ege-universitesi-cevre-dostu-uygulamalari-ile-10-pilot-universite-arasina-girdi/

https://cevremerkezi.ege.edu.tr/tr-5797/sifir_atik.html

https://egeajans.ege.edu.tr/?p=13826

https://twitter.com/egeajans87/status/1250679706405474304

http://euatik.ege.edu.tr/files/euatik/icerik/eu tehlikeli atiklar uygulama.pdf

https://cevremerkezi.ege.edu.tr/tr-9257/yesil_kampus_ve_surdurulebilirlik.html

http://euatik.ege.edu.tr/files/euatik/icerik/yesil universite.pdf

https://cevremerkezi.ege.edu.tr/a-289/ege universitesi surdurulebilir yesil universite stratejik plani.html

https://cevremerkezi.ege.edu.tr/tr-5797/sifir atik.html

https://egeajans.ege.edu.tr/?p=13826

https://twitter.com/egeajans87/status/1250679706405474304

https://egeajans.ege.edu.tr/?p=11967