



BURSA ULUDAĞ UNIVERSITY

**Sustainability Report
2020-2021**



Message from the Rector



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Universities, which bring solutions to the problems of the society with both academic research and students they educate, play essential roles for society by being role models. There are more than 8 million university students in Turkey. It will not be wrong to say that ten percent of the population are university students in Turkey. You can change society by conducting participation-based projects at universities.

Bursa Uludag University has an immense sphere of influence with over 70 000 students and 6 000 staff. We launched the Sustainable Campus Project in the April of 2021 with this consciousness and responsibility. We defined our sustainability vision as “Being a university that lives sustainability in all activities such as research, education and campus operations.” We included “being a leader in environmental protection, sustainability, and restoration” into our core values.

The year we left behind was a year that we planned our sustainability steps despite the pandemic that has captured the whole world. On the one hand, we served the society for the struggle with the pandemic; on the other hand, we maintained our educational and research activities without interruption. We continued walking towards sustainability at the same time. The upcoming year will be a new year full of new sustainability activities with our students and staff and a year that we will fully serve sustainable development goals.

I am delighted to share with you this report that summarizes some of our activities towards sustainability. You will see a reflection of our energy and enthusiasm in the report. I wish you to participate in our excitement and believe that “change” is possible.

Prof. Dr. Ahmet Saim KILAVUZ
Rector

Message from the Office of Sustainability

It gives us great pleasure to see that the Sustainable Campus Project of Bursa Uludag University, which we started in April 2021, is growing day by day. We had an uneasy thought when we started that was whispering as “There is too much thing to do.” However, this thought evolved to the comforting feeling that “We know that we have drawbacks; however, whatever we do will be towards sustainability and will add value to life.” Our real power comes and will come from the support of the campus community comprised of our students, staff, and partners towards sustainability.

We have a dream! Our dream is to see the Bursa Uludag University campus evolved into a fully sustainable campus. It is a campus dream where the campus society feels like

home and protects it as if it were home. It is a campus dream where the visitors leave the campus with pleasant feelings and new sustainability ideas.

We believe that beautiful things have high contagiousness. The beautiful ideas growing within the campus borders will reach and influence the public for an environmental-friendly life. May our steps, which are small towards global sustainability but very meaningful for us, have significant influences.



BUU Office of Sustainability

Story of the Logo of BUU Sustainable Campus Project

Sustainable Campus Project is originated from the vision of Bursa Uludağ University (BUU). The BUU Sustainable Campus logo is inspired by the logo of Bursa Uludağ University and carries its components. The hexagonal shapes within the BUU logo appear as pentagons in BUU Sustainable Campus logo. Pentagons not only represent the components of our university but the 17 sustainable development goals as well. These pentagons that are held within the BUU sustainable campus lettering are so to close a circle. This circularity reflects the main aim of the sustainable campus project.

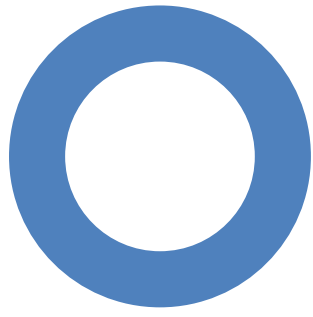
The green color of one of the pentagons mainly draws attention. This green color references the unique nature of our university and underlines the fact that environmental development forms the basis of all development models. The arrows over the green pentagon remind the natural assets of our university and evoke circularity. The middle arrow that shows a move ahead is an extension of the continuous improvement understanding of our university.

Circularity is about returning the gifts of the planet after circularly using them without wasting. The common saying in our language, “giving the one comes from soil to the soil,” summarizes this circularity. Circularity verbalizes an understanding that natural resources are decently and adequately used, not wasted, in an ecosystem model. In that understanding, waste is regarded as raw material, and a heavy burden is not imposed on planet Earth that it can not carry, and all the living things and components of life are connected as if with a chain.

The main aim of the sustainable campus project is to take the necessary steps towards being a university that can sustain itself, achieve the environmental, social, and economic development goals at the same time, and lead society while walking towards this aim.

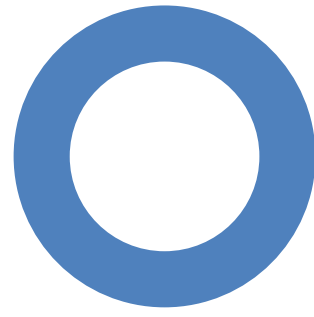


1970



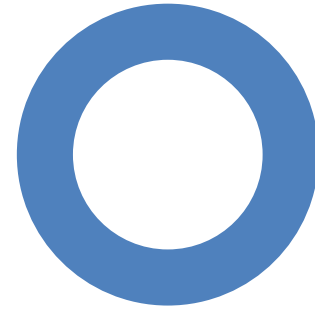
Bursa Medical School established.

1975



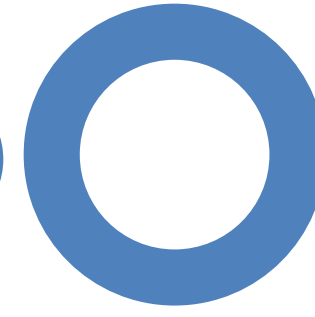
The university officially founded.
Name: Bursa University

1982



The university renamed as «Uludag University»

2018



The university renamed as «Bursa Uludag University»



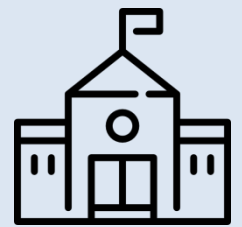
Bursa Uludag University (BUU) at a glance

4



Institutes

15



Faculties

18



Schools

1173



Educational Members

42771



Undergraduate Students

815



Research Assistants

6690



Graduate Students

1906



Administrative staff

78



Bachelor Degree Programs

148



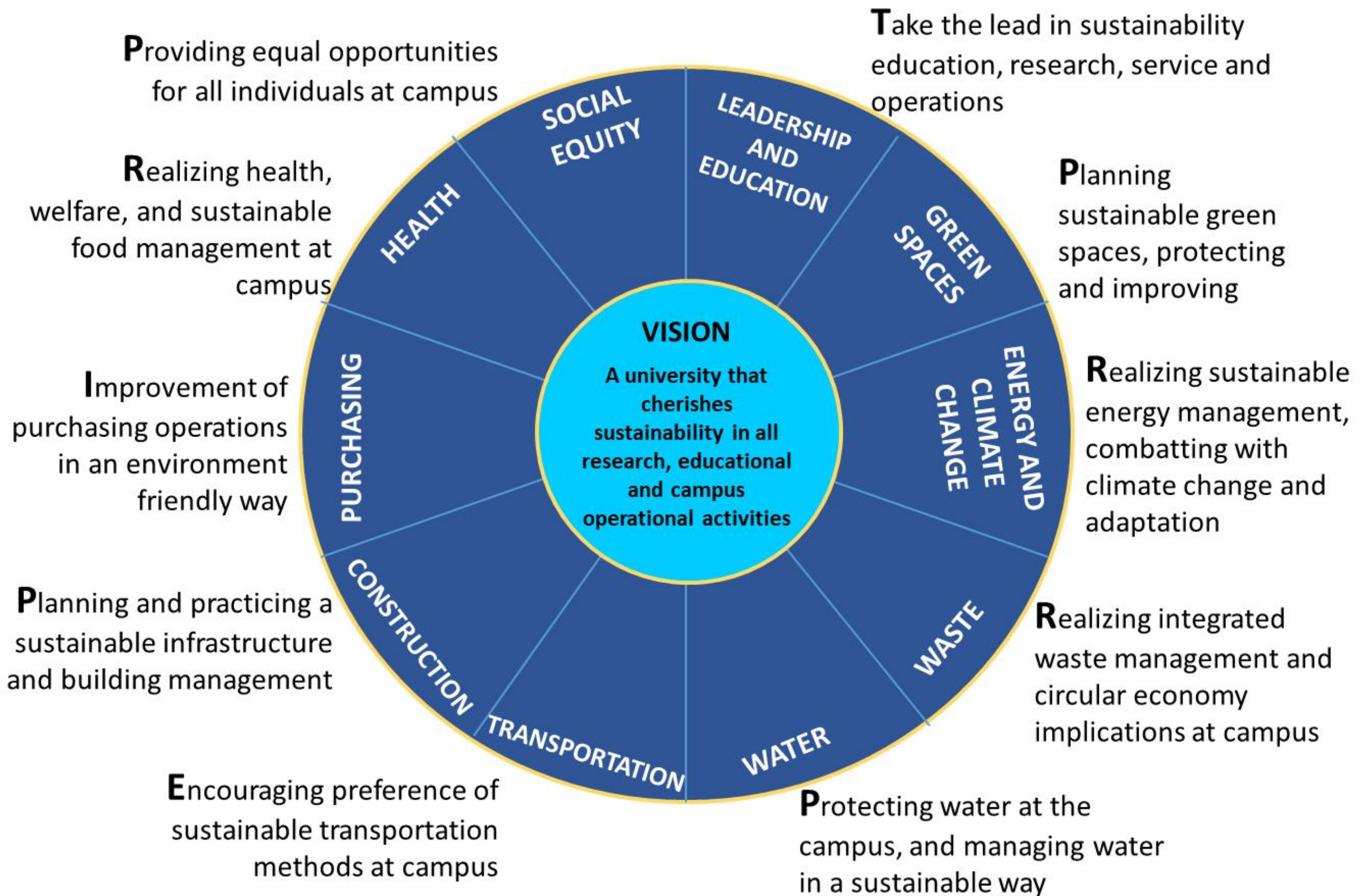
Master's Degree Programs

115



Doctorate Programs

BUU's Sustainability Approach



Bursa Uludag University set the goals towards sustainable development

Highlights

55%



of the campus area is covered with forests.

21%



use of energy efficient lamps at the campus buildings

9



endemic plant species at the campus
Wildlife protection: 90%

9%



reduction in electricity usage in the last year

10+



number of innovative programs during Covid-19 pandemic

10+



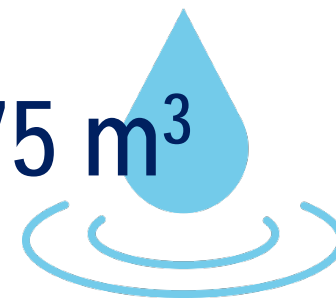
local food products produced by the university

Zero waste certificate



participation in the national zero waste project

961875 m³

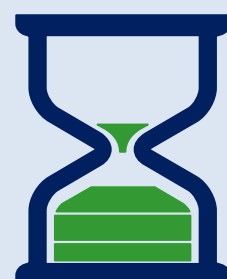


water consumption in the last year

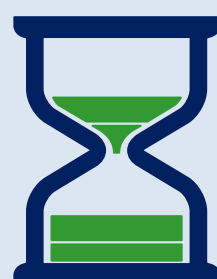
25%



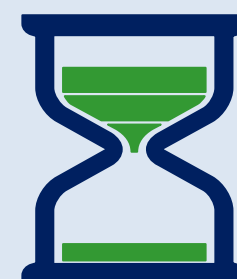
share of sustainability in all courses



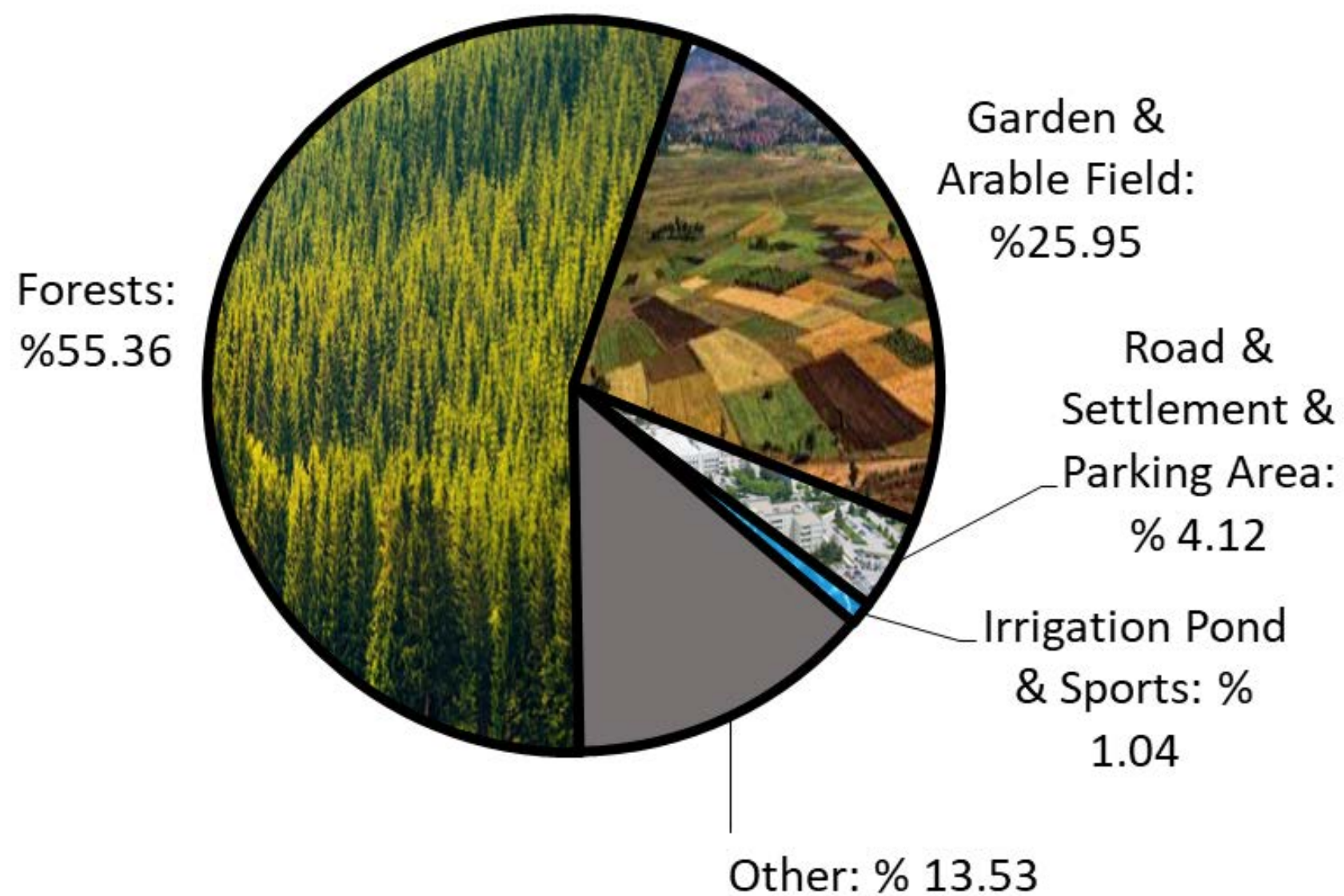
We are close to our target.



We are making good progress.



We can do better.



Total Area:
14 411 513 m²
Forest Vegetation Area:
7 977 737 m²

Settling & Infrastructure

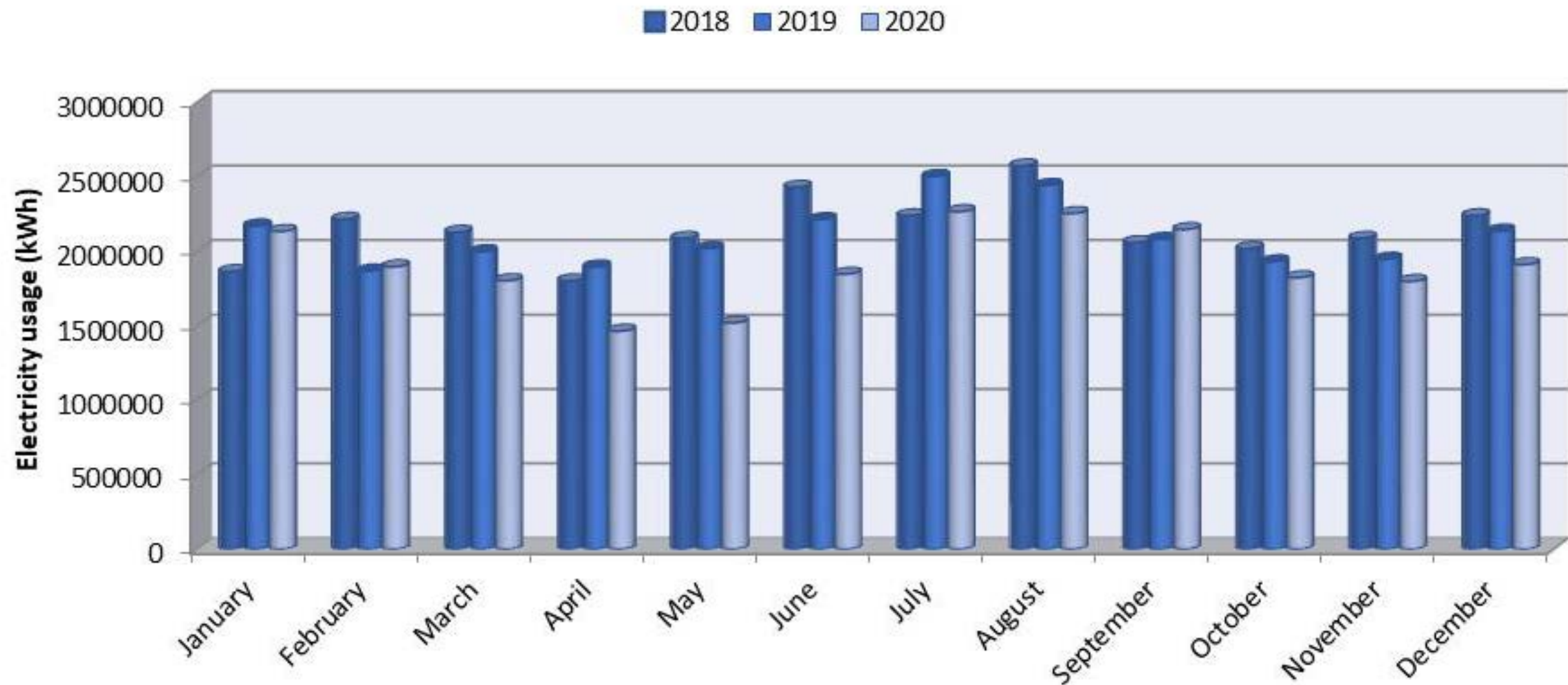


We are close to our target.

Sustainable settlements are known to value both the nature and the quality of life of humans and other living beings in these settlements. Green spaces are one of the main factors that impact the quality of life. It is essential to have and sustain green spaces in a protection-and usage balance towards the sustainable development goals. Green spaces are necessary for life.

Bursa Uludag University is one of the luckiest universities regarding the existence of green spaces. 55% of the 14.41 km² total area is composed of forests. Besides, 26% is covered with gardens and arable fields.

Electricity Usage

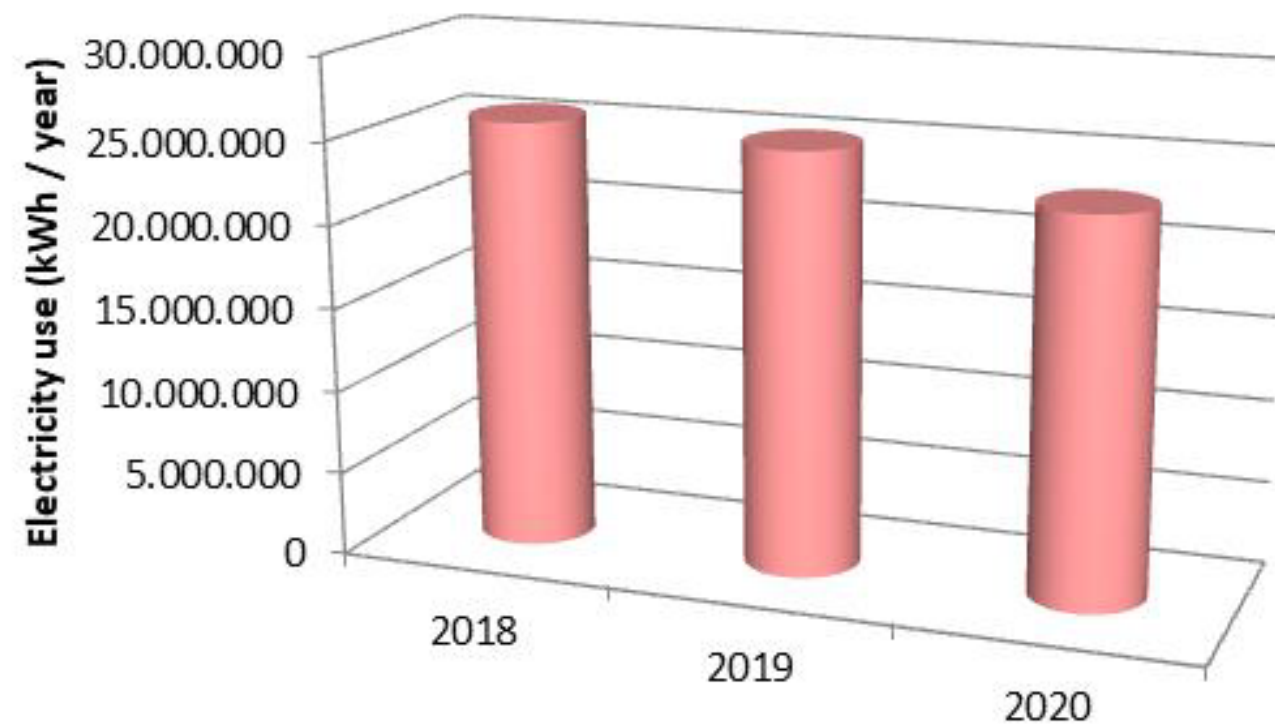


Energy



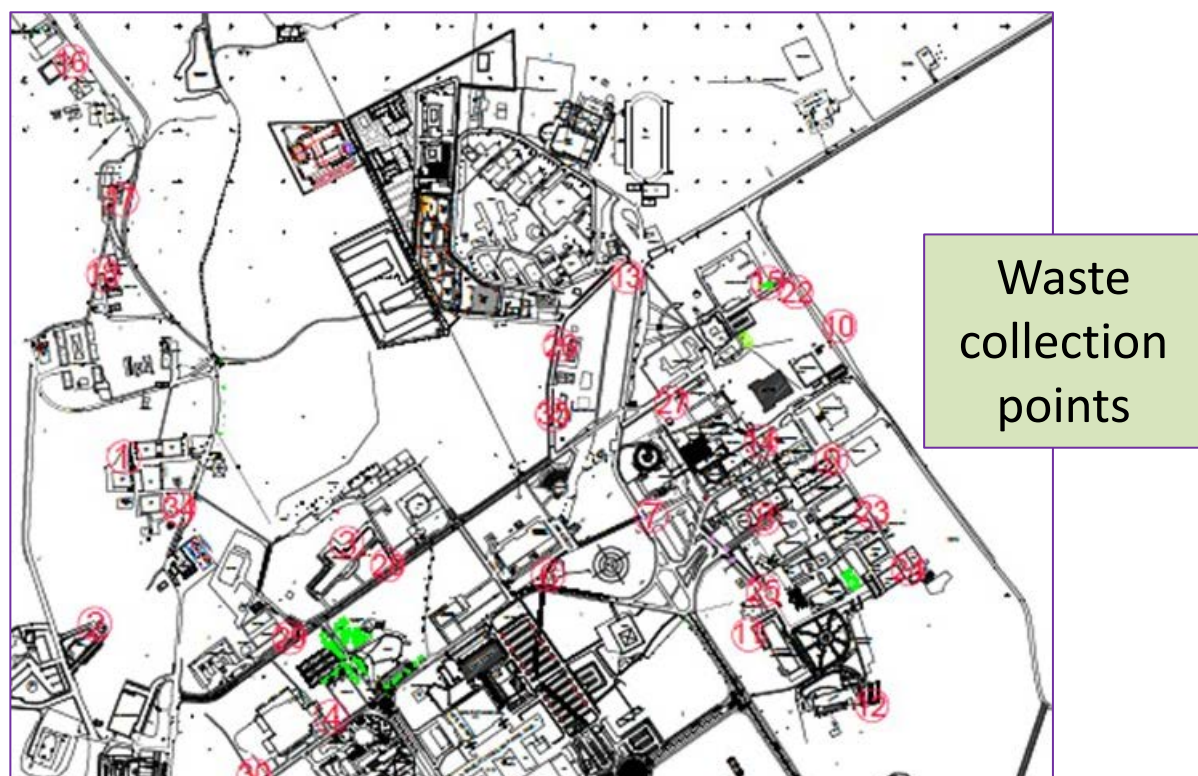
We can do better.

Annual Energy Consumption (kWh)



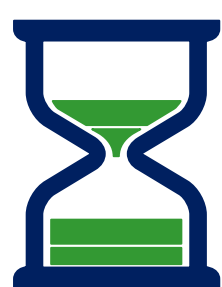
The total electricity usages at Bursa Uludag University Campus in 2018, 2019, 2020 were 25 749 389 kWh, 25 211 475 kWh, and 22 871 532 kWh, respectively.

Electricity is used for lighting, cooling, and laboratory appliances. 9% reduction was recorded in the electricity usage last year.



Waste collection points

Waste

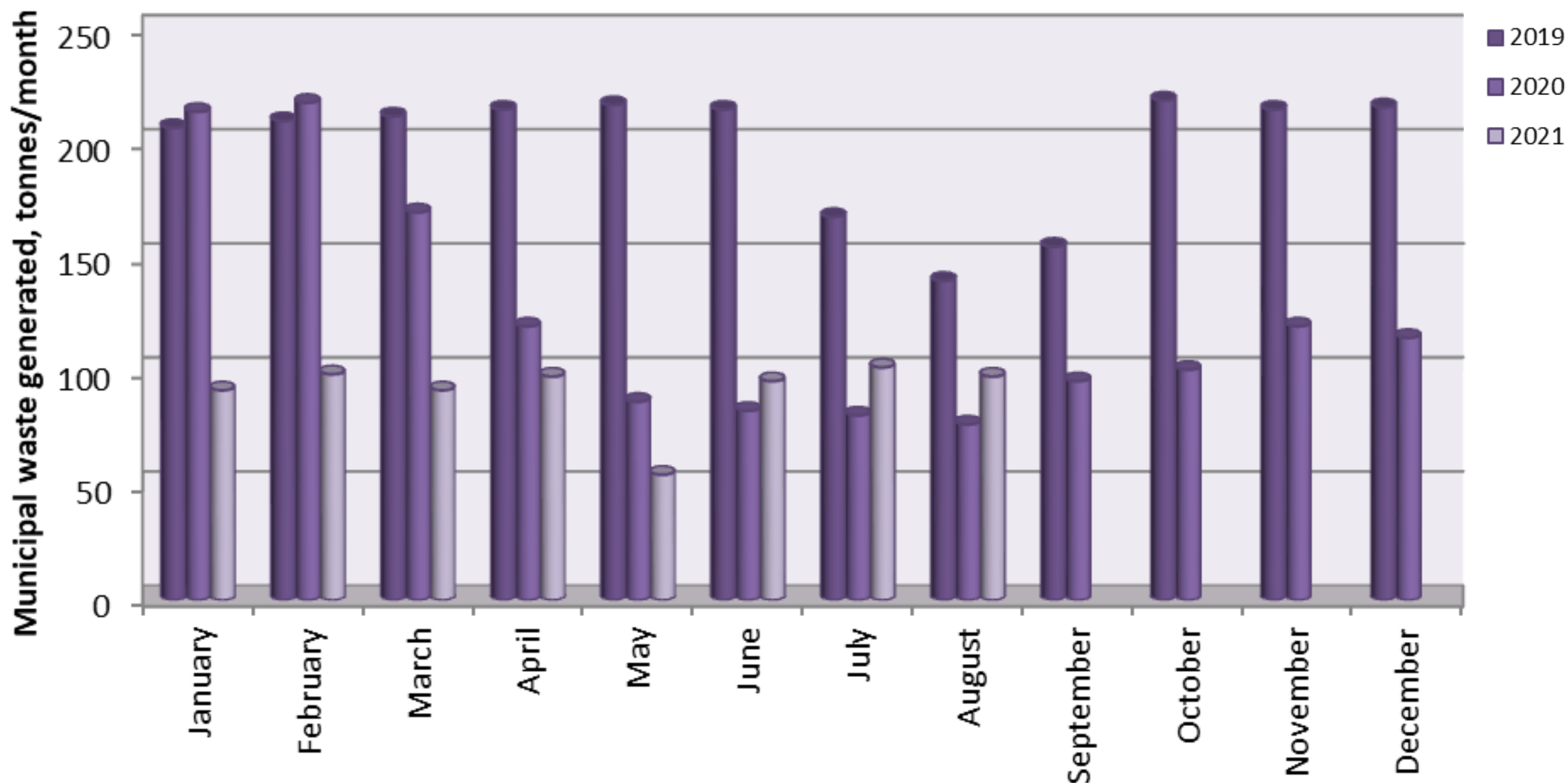


We are making good progress.

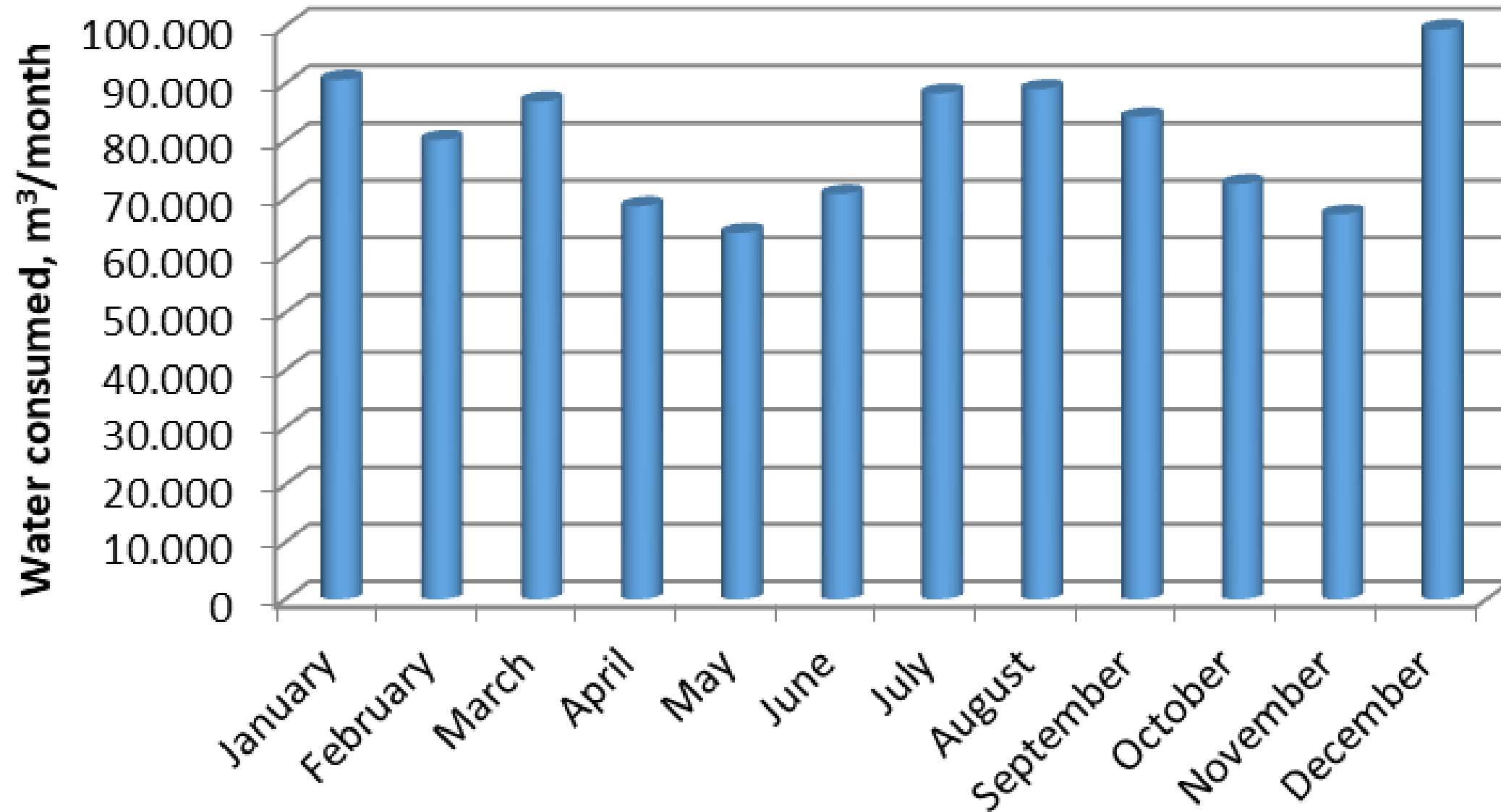
The Zero Waste Project in Turkey initiated by the Ministry of Environment and Urbanization in 2017 has evolved into a nationwide campaign over the past four years. Zero waste regulation was published and started to be applied by the public institutions in Turkey.

Bursa Uludag University fulfilled the criteria of Zero Waste project and received the Zero Waste certificate. A special Waste Division was established to manage recycling program within the campus. The Zero Waste Project run by the university is developing day by day with many recycling programs within the campus.

The amounts of municipal waste generated were in 2019 and 2020 were 4408 and 3502 tons, respectively.



Water Consumption



2020

Bursa Uludag University's wastewater line is connected to the city's sewerage system. The plant was designed according to the modified five-stage Bardenpho process. The treated wastewater is discharged into the Marmara Sea. Unfortunately, there is no recycling program for the wastewater generated by the university.

Water consumed at the campus in 2020 is 961 875 m³.

Rainwater harvest at the campus



Bursa Uludag University pond was constructed in 2002. The volume of the pond is 0.69 hm³. The pond serves irrigational purposes within the main campus. All of the gardens and arable fields within the campus are irrigated using the water in the pond. The pond harvests rainwater.

Water



We can do better.

Plant Conservation

The flora at the main campus of Bursa Uludag University is under conservation. 252 species of 219 genus from 59 families were detected. The phytogeographic regions of the species were determined as Mediterranean (22%), Euro-Siberian (10%), Irano-Turanien (1%), and Euxine (0.08%). The families with the highest number of species are Asteraceae, Fabaceae, Lamiaceae, Liliaceae, Boraginaceae, Poaceae. **9** of the 252 species at the campus area are endemic.

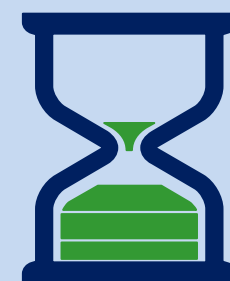
There is a special conservation and cultivation zone for medical and aromatic plants, which covers an area of 1000 m². Medical plants, spices plants, perfume and cosmetic plants, dye plants, onion plants and shrub type plants are cultivated at this area. This area is being protected and used for research and educational purposes.



Animal and Wildlife Protection

A special conservation program was developed at the campus for Red Deer, which is the biggest deer species in the world. An area of 720000 m² is dedicated as a conservation zone. Health service is provided by the Faculty of Veterinary and Animal Hospital. There are also other animal types such as coyotes, fox, squirrels, stoats, hedgehogs, and many reptiles and bird species that live at the main campus.

Biodiversity



We are close to our target.

Transportation



We can do better.

Although the university does not provide the bicycles for now, there is a plan to improve the cycling program and use of other zero-emission vehicles within the campus.



Vehicle	Number/year
Car managed by the university	46
Cars entering the university	7260
Motorcycles entering the university	400
Total	7706



Sustainable Food



We are close to our target.

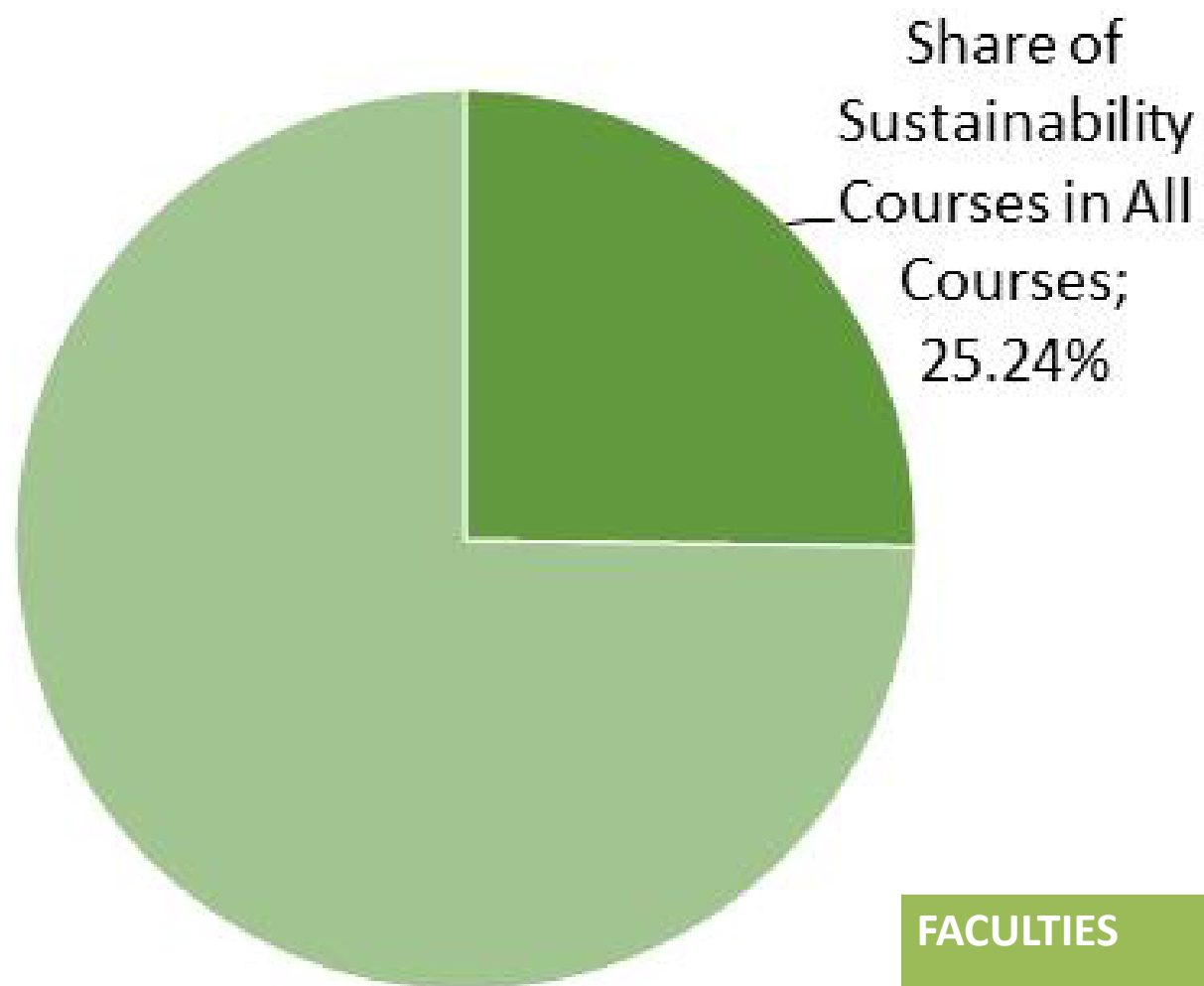


Several local foods such as milk, yogurt, cheese are being produced by the Faculty of Veterinary Medicine and sold to the campus community and the visiting public.

The Faculty of Agriculture produces milk and meat products to be sold. The

university has large farms for stock farming and free-range egg farming, etc., not only for research but also for local food production. The animals at the farms are nourished with only healthy and quality feedstuff, and there is enough open space for grazing.

Technical Sciences Vocational School developed a local ice cream with the milk they obtained from the farms of the Faculty of Agriculture. This local ice cream was put on the market with a brand named UNIDO.



Education



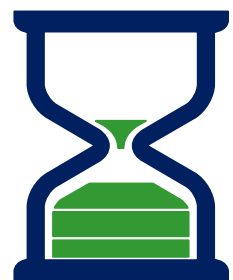
We are close to our target.

FACULTIES	All Courses		Sustainability Courses	
	Under-graduate	Graduate	Under-graduate	Graduate
Faculty of Engineering	825	513	127	187
Faculty of Education	763	902	156	191
Faculty of Agriculture	889	588	251	252
Faculty of Economics and Administrative Sciences	338	458	22	162
Faculty of Arts and Sciences	1119	577	246	217
Faculty of Architecture	135	120	8	9
Sports Science Faculty	127	41	2	3
Faculty of Health Sciences	72	118	38	41
Faculty of Medicine	184	217	86	82
Faculty of veterinary medicine	159	349	12	65
TOTAL	4611	3883	948	1209

Vocational Schools	All Courses	Sustainability Courses
Vocational School of Technical Science	816	89
Vocational School of Mennan Pasinli	44	3
Vocational School of Health Sciences	533	247
TOTAL	1393	339



Sustainability Events



We are close to our target.

Total number of sustainability & environment related events in years 2019-2021 is more than 150.

A total average per annum over the last 3 years is more than 50 events (e.g. conferences, workshops, awareness raising, practical training, etc).



Bursa Uludag University



Join Us!

We are incomplete without you in sustainability efforts.

[E-mail: sustainability@uludag.edu.tr](mailto:sustainability@uludag.edu.tr)

<https://uludag.edu.tr/sustainability>

<https://www.instagram.com/sustblty/>
[linkedin.com/in/buu-office-of-sustainability-03a9a7210](https://www.linkedin.com/in/buu-office-of-sustainability-03a9a7210)

<https://www.facebook.com/buu.surdurulebilirlik>