



155 years of tradition is #nowgreener

BOGAZICI UNIVERSITY SUSTAINABILITY REPORT

Greener. Inclusive. Zero-waste.

THE SUSTAINABLE GREEN CAMPUS

We brought together our actions and targets towards a more sustainable green campus in this report. Our aim is to keep our more than a century old values alive and rejuvenate with today's sustainable change, while we continue to pioneer academic advancement.

Discover



Standardization



Sustainability tracking & reporting system for higher education institutions.

Achieved Bronze level at STARS scoring of AASHE



Boğaziçi University has completed the membership process to International Sustainable Campus Network.

Have been an active member since 2016



UI GreenMetric World University Ranking System evaluates university sustainability policies and applications.

Ranked number 3 in Turkey



Leadership in Energy and Environmental Design is a green building certification program used worldwide.

The 1st higher education institution to qualify for LEED Gold



Together, we are building a greener campus and a more sustainable community to carry the inspiration of Boğaziçi to future generations.

Director's Welcome

In Boğaziçi we, as all members of the institution, act with the awareness that we have a responsibility to protect and advance the 155 years old academic legacy that we inherited. This can be achieved through interconnectedness and interaction with the society. So, we started the sustainability journey of Boğaziçi University in 2008, aiming to create positive impact towards a greener, more inclusive and sustainable society.

We have had remarkable achievements, including the first LEED certified green campus buildings, a wind park to produce our own electricity, scholarships and growing student engagement in sustainability. Although we have made considerable progress, there is still a long way to go and much more to achieve in institutional and societal level of sustainability.

2019 has been a year of transformation in the sustainability journey of Boğaziçi. We accepted higher accountability and transparency as the fundamentals of institutional sustainability and decided to recreate our sustainability reporting process. In addition to our achievements, we identified what needs to be done differently and set targets for the forthcoming reporting period. We also made changes to our reporting format and used a cloud-based digital



Prof. Dr. Nilgün Kıran Cılız



platform for 2019 reporting period for the first time. This is not only saving paper and energy in comparison to printed reports, but also providing a more reader-friendly experience with easy navigation and visualised information.

We aim to grow and spread the sustainability culture of Boğaziçi University and re-define the deeply rooted Boğaziçi brand as “greener”. Our goal for the forthcoming period will be enhancing the employee and student level awareness of environmental and social sustainability in the first place. We also keep our ultimate goal as creating a hub in the region for sustainable development by enhancing cooperation among business, academy, government and society.

Professor Nilgün Kiran Cılız

Director, Boğaziçi University Center of Sustainable Development and Cleaner Production

History



The sound academic traditions of Robert College form the nucleus of Bogazici University, with its expanding campus and increasing popularity...

[Read more](#)

Boğaziçi by Numbers

12,351
Undergraduate
4,986
Graduate
Students



6
Main Campuses
1.680.042 m²
Overall Surface Area

29 Undergraduate
65 Graduate
33 PhD Programs

4 Faculties
2 Schools
6 Institutes

2,283
Books Written in
Braille Alphabet
and
Voice-books

437
Full-time Faculty Members
82 instructor **88** Foreign Lecturer
266 Research Assistant
891
Administrative Personnel



166
Foreign Students
from
42
Countries

481,616 Books
72,921 Electronic Journal
3,256,021 e-books
620 Printed Journal
194 Interactive Database

141
Research Laboratory
and
32
Research Center



44
Student Clubs

Reporting Team



Prof. Dr. Nilgun Ciliz
SDCPC Director



Selin Akdeniz
Reporting Project
Responsible

Operations

Buildings and Energy



The roof is re-designed to maximize the benefit from daylight in dormitory and study areas.

Proud to present Hamlin Hall: The 1st LEED certified historical building and the 1st nationwide LEED Gold certified university building

Hamlin Hall, whose base was laid in 1868, has been used as dormitory from its completion to present. A project named “Hamlin Hall is Ours All” was started in 2008

and by founding Hamlin Hall Executive Committee, a restoration was decided in 2009 for the building whose first restoration was conducted in 1932. In the year 2011, the facade and roof of the building were thoroughly overhauled and by doing

necessary repairs, facade cleaning and retrofits LEED certification application was held on 27.01.2011. [Read More...](#)



The historical texture is carefully preserved during restoration.

Savings in the Building

14,640 kg
CO₂ by
Solar
Collectors

2400 m³
water by
Grey Water
Applications

Local &
Healthy
Construction
Materials

The new member of Boğaziçi Buildings: Gözlükule Excavations Research Center

The early 20th century building, which was used as a cotton gin factory, has been repurposed by Boğaziçi University as a LEED certified research center. [Read More](#)



People's wellbeing was the main focus while designing the interior of the building complex. It is a spacious, well-lighted and airy living space to maximize the benefit from daylight and fresh air.

Savings in the Building

13,830
kg CO₂ by
Photovoltaic
Lighting

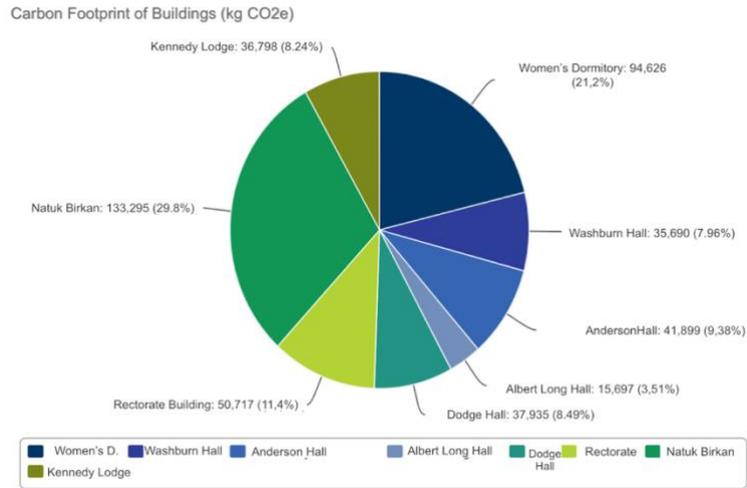
14,640 kg
CO₂ by
Solar
Collectors

Repurposed
the
Old Building

Campus Carbon Footprint

Calculating the Carbon footprint of campus buildings allow to identify points which need improvement and draw a roadmap for future building management actions.

It is a big step for Boğaziçi to start using a special purpose software for keeping logs of building energy use and carbon footprint. The reporting software is expected to be a good optimization tool for energy use in buildings by capturing and visualizing detailed emission data with less effort.



TARGET

Extend the personnel trainings to utilize the reporting software more effectively in the next reporting period for more detailed reporting.

CO2 Elimination by Photovoltaic Lighting



Photovoltaic Lighting Project

Photovoltaic lighting is lighting that is at least partially powered by electricity generated from solar panels. Boğaziçi buildings are surrounded by wide green

areas which have plenty of sunlight in daytime. This allowed the university to install partly or 100% solar-powered lighting systems in campuses to eliminate considerable amounts of CO2. The year-by-year growing scale of PV lighting applications saved a lot of electricity while contributing to lower the overall carbon footprint.

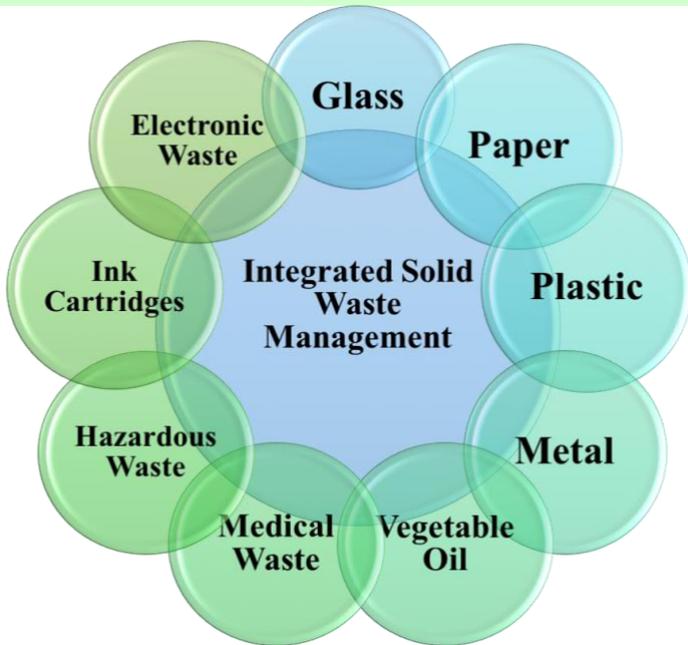


Powered by wind!

Bogazici University
Windpower Plant project is an important step on the way of being Sustainable Campus. In the scope of this project construction of wind turbine is continued in Kilyos Saritepe Campus.

The goal of Saritepe Campus is to be the first university meets the all electricity requirement by wind source in the world due to approximately 1 MW power turbine generates 40% more than its consumption. Expectations from BÜRES are like 900 tones carbon, 1 million kWh energy, and 350,000 TL energy outgoings saving. Windpower Plant setup is continued with in cooperation of Campus Coordinator Prof. Dr. Emre Otay and Bogazici University Directorate of Construction and Technical Works.

Waste Management



Boğaziçi University has been the pioneering higher education institution in Turkey to achieve effective waste disposal by segregation at source.

Separately coloured bins, special-purpose containers, temporary waste storage areas and regular pick-up service are provided in the campus to help students to dispose the waste safely and effectively. Building management units use standard forms to keep a log of weekly waste by type for reporting matters. The University has long-term partnership with

municipalities and private disposal service providers. In addition to the contribution to environmental sustainability, the system also creates sustainable job opportunities for students continuing their education on a scholarship.

Since 2014, Boğaziçi has been part of the "Zero Waste" project, which is owned by Presidency of The Republic of Turkey and have been honored with the Zero Waste - Good Future Award in 2018.

Temporary Waste Storage Area in South Campus

The waste in campuses are categorized as non-contaminated recyclable materials, hazardous waste,



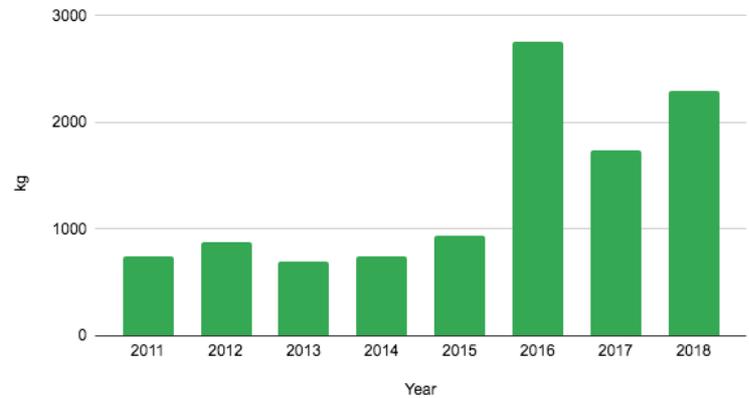
electronic waste, batteries, fluorescent bulbs, medical waste, textile and contaminated packaging, then stored in the temporary waste storage area until regular pick-up dates. This solution provides efficiency in reverse logistics by optimizing pick-up frequency, as well as effective waste segregation.



Paper Waste

Since 2011, recycling printed paper and expired documents separately from packaging paper saves considerable number of trees. Because the uncoated fine paper can be recycled into high quality paper, keeping them away from post-consumer packaging allows to produce non-contaminated new paper products while helping to stop deforestation. The University has partnered with Beşiktaş and Sarıyer municipalities for weekly pick-up of those paper and recycling services.

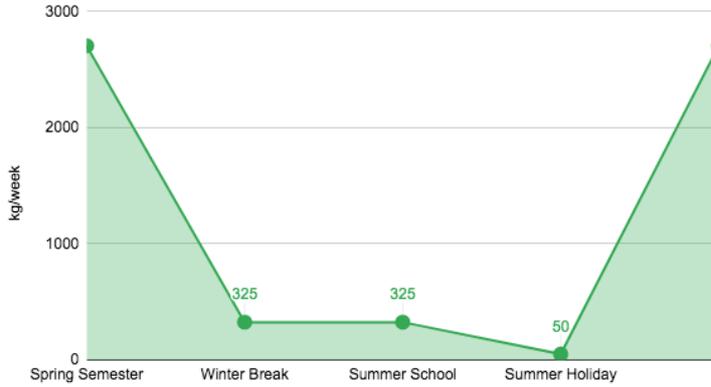
Amount of Paper Waste Segragated in Campus





The Compost Unit

Compostable Waste Per Week



Boğaziçi is proud to use the organic waste from campus, including cooking preparation scraps, used tea leaves and garden waste to make the landscape greener in a healthier way. A compost machine which has 100 kg capacity per day is located in the South Campus to transform the fore-mentioned waste to

biomass. Each 5-10L can feed 1 m² grass area.



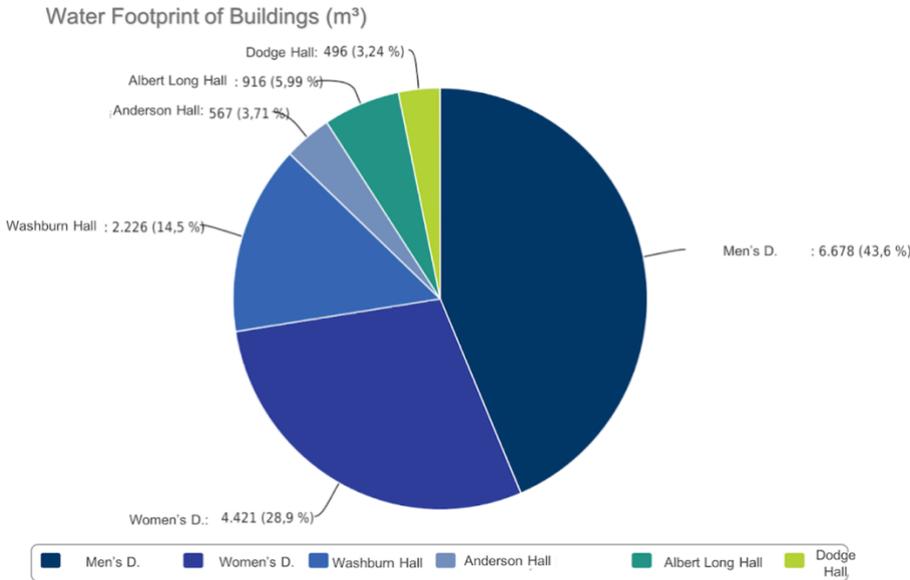
Electronic Waste in Campus

The worn-out electronic fixtures of the university are being sent to the Mechanical and Chemical Industry Company on a regular basis for recycling and repurposing. Students have been volunteered for the Students Go Green project and started a campaign to collect the domestic electronic waste from all students and university personnel. As the result, they created a success story by collecting 1,650 kg of electronic waste and sending all to the partnered sponsor firms. In addition to the responsible disposal of the waste, they created a win-win result by receiving 2 water-saving tap sensors for each ton of waste. Up to 60% saving is achieved on the water use of Anderson Hall.



Water

Campus Water Footprint

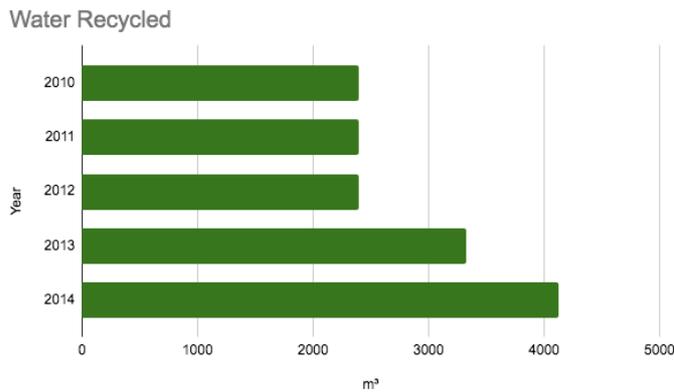


The amount of water consumption in campus buildings very much depend on the purpose of building. Factors such as being a 7/24 living space, student circulation and wetted area presence directly affect the consumption level.



Among all buildings, especially dormitories own the largest share of campus water use. The buildings, where classroom capacities and daily student circulation is high, follow dormitories.

Water Recycling



Grey water, rainwater recovery and water-saving plumbing fixtures have been in place in Boğaziçi campuses since 2010. Funds were raised to install those systems by running campaigns with sponsors and collecting post-consumer valuable materials to be recycled.

TARGET

Explore new opportunities to run sustainable campaigns and swap recyclable materials with water-saving fixtures for campus buildings.

Transportation



South, North, Uçaksavar and Hisar campuses are located not very far from each other. However, walk distances reach 1.5 km due to frequently inclining natural terrain and it is not so easy for students to move between classroom buildings in tight daily class schedules. The answer have been

using shuttle bus lines which operate between campuses and main transport stations. for years. The solution is fast and comfortable for people, but on the other side of the medallion, it is also increasing the carbon footprint of campus transport. Since 2017, there are two initiatives started and owned by students for creating alternatives to shuttle lines.



Bizero initiative aims to bring students the daily habit of cycling in city life and eliminate use of cars for short distances. Two electric bike rental stations are placed in South and North campuses, where students can hire bikes easily by

using the mobile app and with very little per-minute payment. This is a very helpful step both in terms of enhancing the wellbeing of students by increasing physical activity and improving the air quality by cutting down fossil fuel use in campus.



Another initiative to ease the inter-campus transport and reduce per-person carbon footprint in campus, is Boun Car Sharing. The project launched by Student Representative Board in 2017 with a social media campaign **#BoğaziçiliArkadaşınıYoldaBırakmaz** (meaning: Boğaziçi people never leave their friends in the lurch) and a photo contest with Boğaziçi souvenirs as reward.

The car sharing initiative aims to encourage people to give their peers a lift when they drive in campus. The car sharing stop is defined with a sign in South campus to help people to find a car to share when needed.



Grounds

Every life matters in Boğaziçi!



Our historical campus is home to animals and various plant species that are part of the caring and flourishing culture of Boğaziçi. We have a dedicated Department of Land Utilisation under Rectorate, which is responsible of protection and growth of the plantation in the campus. All soil conditioners and pest controlling agents are selected with no-harm criteria and are compliant with campus livelihood safety requirements.

Every plant specie on the campus floor is labelled to increase knowledge and care of the campus residents. Campus flora has also been the topic of academic research and publications.



We maintain a safe living space for the cat and dog population of the campus by providing feeding and shelter areas together with a full-time veterinary clinic within the campus.

110 cats are micro-chip tracked	33 dogs are vaccinated	In campus dog shelter	Full-time veterinary clinic
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TEMA Forestation and Nature Park Project

Boğaziçi University has partnered with TEMA Foundation to increase plantation of Kilyos Campus by planting 60,000 trees of different types and protecting the endemic species in the campus area. The partnership will continue until 2025.



TARGET

Build a Forest School in Kilyos by 2025, which will be designed by TEMA Foundation and aiming to deliver direct training on environmental protection and biodiversity matters to children.

Academics

Institute of Environmental Sciences



Boğaziçi University is home to the Institute of Environmental Sciences, which offers a diverse portfolio of courses in Environmental Sciences and Environmental Technology fields. Courses, which range from undergraduate to Ph.D., focus on Sustainable Development Goals and aim to find innovative solutions to contemporary planetary challenges, such as waste management, material recovery, water and soil

sustainability and sustainable food production, while providing an insight to students on the afore mentioned areas.

A total of 51 graduate and 6 undergraduate courses are offered in the institution. M.Sc. and Ph.D. programs are designed to bring specialisation to students in environmental science and technology and encourage them to continue research at sustainable development area.

Undergraduate courses are available to students of all departments as electives Those courses create a platform of discussion and interaction for people from diverse disciplines.

23

Faculty
Members

12

Research
Laboratories

51

GRADUATE
COURSES

39

M.Sc.
Dissertations
*in last 5 years

6

Undergraduate
Members

14

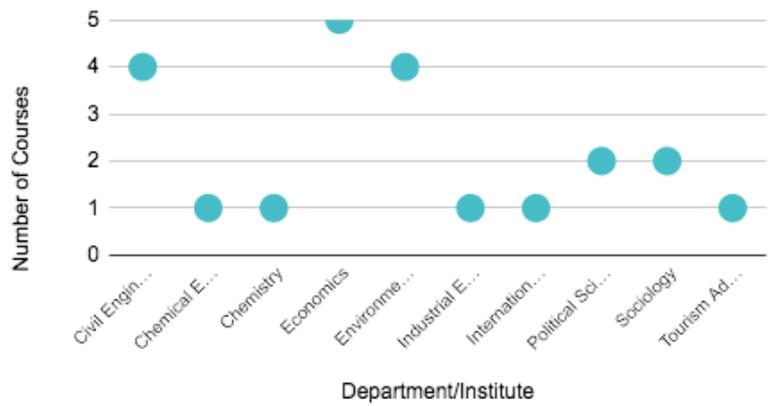
Ph.D.
Dissertations
*in last 5 years

Multi-disciplinary Studies

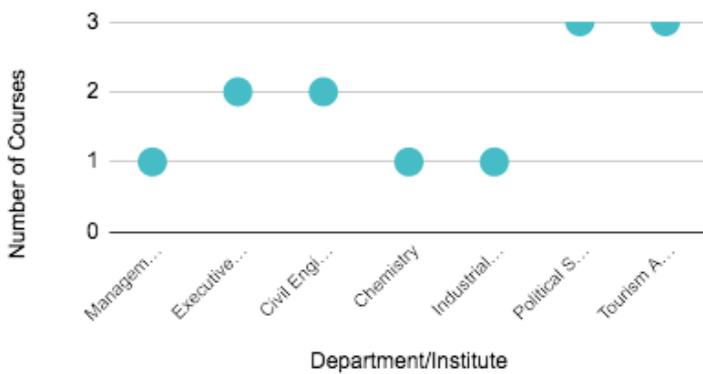
Considering that SDGs aim to provide substantive support and capacity-building for the goals and their related thematic issues, including water, energy, climate, oceans, urbanization, transport, science and technology, sustainability studies are not limited to the Institution of Environmental Sciences, but require a multi-disciplinary and comprehensive approach which is owned by a diverse list of departments in the university.

In Boğaziçi, undergraduate and graduate level courses are offered to students to provide a deep understanding of SDGs and inspire them to lead capacity-building actions in the future

Undergraduate Courses



Graduate Courses



Undergraduate courses, of which the main focus is sustainable development, are offered by a wide range of faculties, including Engineering, Arts & Sciences, Administrative Sciences & Economics, as well as The School of Applied Disciplines. Faculty members of different departments

develop multi-dimensional approaches to SDGs in the curriculum formation process with an aim to support students to carry environmental, social, economic and political sustainability awareness in business life.

Previous sustainable development research is transferred to graduate students by courses offered under management, engineering, natural sciences and politics to encourage further research and formation of academic base for sustainable development.



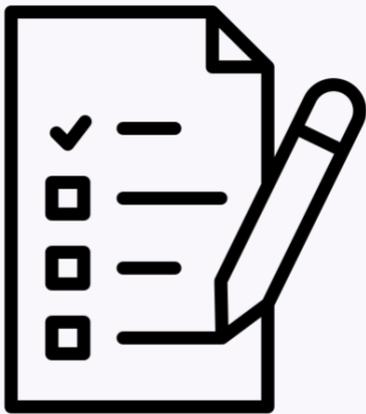
TARGET

Increase the number of offered courses which focus on Sustainable Development Goals by encouraging faculty members to include the related goals in curriculum during the annual course development period.



Engagement

Sustainability Assessment



Students calling for action!

A comprehensive survey has been conducted to deeply understand students' level of awareness and expectations in terms of campus sustainability. A diverse group of students from all disciplines, academic levels and career interests participated in

the survey and answered a set of questions which targets to define awareness & expectations on academic & social sustainability, campus sustainability metrics, waste management, carbon footprint and energy management.

Major highlights from the results include:

- Environmental branch of sustainability has the highest priority followed by social, good governance and economic

- Students' level of sustainability awareness is the highest priority among all groups, while faculty members, administration and campus employees follow respectively
- **73.6%** of participants are aware that there are one or more green buildings in campus
- **67.7%** of the answers indicated that student interest is the leading barrier for more sustainability research and project
- Most participants think that social media and other digital communication channels must be used more effectively to spread sustainability information in the university
- **75.7%** of participants know that there are sustainable energy sources are being used in campus
- In terms of waste management, students equally value availability of segregated waste bins and rising recycling awareness
- Majority of students are aware of and prefer refilling and reusing printer cartridges, while they see recycling as the most popular solution for paper, plastic and glass solid waste

Results show that students demand more transparency and sustainable governance practices and a more effective sustainability communication strategy to raise awareness and keep peers interested in academic research on sustainability matters.



TARGET

Call communications office and other administrative units of the university for collaboration to build a more effective sustainability communications strategy aiming to:

Keep students' interest alive for academic and extracurricular activities,

Encouraging students to adopt sustainability principles in daily life,

Increase student ownership of sustainability projects and

Raising generations of *green alumni*, who will transfer the Boğaziçi sustainability culture to the society and drive positive change.

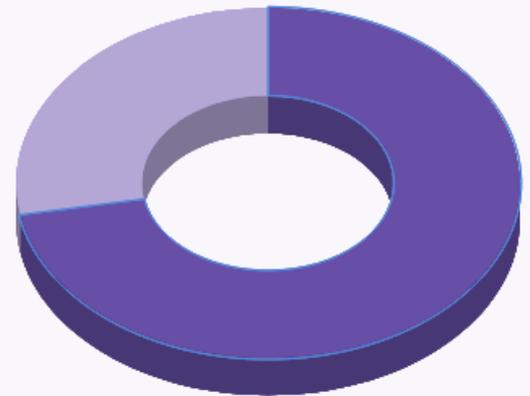


Alumni Questionnaire

Boğaziçi alumni from diverse backgrounds in terms of graduation year, career and academic major were asked to participate in the alumni sustainability questionnaire which was designed to identify the former students' understanding and awareness of sustainability. The responses of the alumni is very valuable as they show the long-term professional results of sustainability education provided by the university and also serve as mentoring tips to currently enrolled students about the benefits of in-campus sustainability activities.

When asked about what first comes to their minds about sustainability, alumni had overwhelmingly mentioned the environment, with the economy and the society following. Other options like human rights, governance and innovation were picked much less. Regarding what they think the top three most important SDGs were, the alumni picked SDG 2: Zero Hunger the most. Second most common pick was SDG 5: Gender Equality, with SDG 13: Climate Action in third. Also, most alumni view the governments of the world as the primary actors in realizing the SDGs with NGOs following and research institutions being the third most common pick.

72.1% of alumni believes that in their professional experience since graduation, sustainability education at Bogazici University would benefit its students in their professional lives.



● Positively effects future career ● No impact
Impact of in-campus sustainability education in future career

Sustainability Assessment

Greenfest

A 100% student owned activity, Greenfest, has been held in South Campus in May 2018. Boğaziçi University Environment Society (BUÇEK) members planned the content of the

festival as the host, while the event attracted a high number of students from all disciplines and academic semesters.



The content covered in the festival include:

- information sessions on Zero Waste action
- film screening on climate change
- guest speakers for plant-based diet discussion
- well being activities

Greenfest is considered as a big step in terms of student engagement in Boğaziçi sustainability initiatives, as it is

- a peer-to-peer sustainability awareness rising opportunity
- brought up by students

- an evidence that active engagement of students in sustainability journey of Boğaziçi is possible
- bringing up the sustainable development topics from students' perspective



Boğaziçi University Cycling Society

The society aims to encourage students to integrate cycling in their urban life for transportation, wellbeing or just for fun. Events are being held to bring cycling enthusiasts together and provide training to new cyclers to ensure their safety.

Cycling Society also completed social responsibility projects and collaborated with blind people during cycling events to raise awareness for urban presence and transportation of them. It is an example of inclusive sustainability actions that aim to enhance all people's equal access to urban facilities.



Tarlataban

Tarlataban is a campus-based student initiative, which aims to prove that it is possible to run a sustainable and environmentally friendly urban agriculture system. The

initiative is based on voluntary work and uses a field area to grow fruits and vegetables to be used in the food & dining services of the university. It is an action taken not only for environmental sustainability by using food scrap for compost making, but also touching the zero hunger, sustainable cities and responsible consumption & production matters.



StudentsGoGreen



Boğaziçi students collaborated with peers from other universities and pioneered the StudentsGoGreen project to collect domestic electronic waste to be recycled. The project, which begun as an in-campus action spread to different university campuses and as a result, 1650 kilograms of domestic electronic waste was collected in 3 months time. The collected waste was exchanged for water-saving equipment to be used in Boğaziçi buildings. What is more, the project owner students' effort was rewarded with 3 weeks of sustainability training in University of Chicago!

Sustainability Training

Training Programs for Students



A series of in-class training sessions, in-campus physical communication and digital communication channels have been utilised by the Sustainable Green Campus team in Boğaziçi.

The in-class formal training events include:

- Zero-waste training sessions by Prof. Nilgun Ciliz
- Accredited Zero-Waste training by Ministry of Environment and Urbanisation



In-campus physical communication:

- Zero-waste video screening in dining areas
- Guiding posters in strategic points in campus to lead students for waste segregation and recycling
- Using campus as a living laboratory for sustainability projects and encouraging students for active participation

Digital communication channels for sustainability engagement:

- Sustainable Green Campus website to share news and progress of the university
- Official social media channel of Boğaziçi to increase visibility of sustainability efforts of the university

Lifelong Learning & Private Sector Collaboration



Global Sustainability Summit

Boğaziçi University has been hosting Global Sustainability Summit, which brings together industry professionals and creates a platform for interaction among various sectors to accelerate sustainable development.

The ad-hoc summits on sectors and SDG action areas have been held since 2015. The industries range from textile, banking and automotive, while the areas of action include sustainable finance, production and leadership.



Corporate Social Responsibility Summit

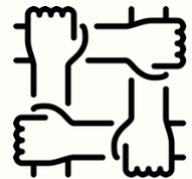
Boğaziçi has had the honor to host Corporate Social Responsibility Summit with the theme of corporate citizenship. 24 speakers, who are responsible of sustainability and communication of leading companies of Turkey came together in Albert Long Hall for the summit. Women's access to equal career opportunities, social responsibility & sustainability from business perspective and social impact topics were at the center of discussion. Participants found an equal opportunity to explore diverse perspectives and build a network among sustainability professionals.

Community

Equity & Diversity in Campus



Ethics Coordinating Committee continues actions in six main branches to ensure equity in the diverse campus environment.



The committee draws the framework for students and university personnel to equally benefit from rights, while they are aware of defined responsibilities to sustain the inclusive atmosphere in the campus.

The Code and Conduct and regulations are applicable to teaching staff, students,

academic personnel involved with administrative work and administrative personnel. Human resources practices, peer-to-peer relationships among students and academic research are included in the scope of the Code to prevent any sort of discrimination in the university.

[Click here to find out more...](#)

Boğaziçi University Foundation

Boğaziçi University Foundation has been supporting Boğaziçi Community since it was established in 1978 to fund general expenses of the university.

The foundation has been providing scholarships to students since 1978 to increase affordability and accessibility of students' necessities. Bringing together the donors and beneficiaries, the foundation supports inclusiveness and equality of opportunity in campus.

[Read more...](#)

TRY2,875,230
Fundraising for
Scholarships
*in 2018

2.148
Beneficiary
Students
*in 2018

Accessibility



Digital Transformation of Audio Library!

Boğaziçi University Technology and Education Laboratory for Visually Impaired People (GETEM) has partnered with a major telecommunications company to digitalise its library of audio books by developing a new mobile app. The project made a large selection of academic and literary work accessible to visually impaired people worldwide by simply downloading the mobile app and creating an account for free. Moreover, the app also creates a platform for volunteers to read books for audio records and allows them to record books wherever they are, without coming to the campus.

[Click for more information](#)

[Click to download Android app](#)

[Click to download IOS app](#)

Wellbeing



Boğaziçi University has a holistic approach to community wellbeing which includes physical and mental healthcare services as well as sports activities.

59 elective courses are offered by Physical Education department in various branches of sports and in-campus sports facilities always welcome students, academic and administrative personnel who wish to practice independently.

3 tennis courts
6-lane tartan track
2 football fields
1 basketball court
4 gyms
2 swimming pools

59
Physical
Education
Courses

3 health centers
1 dental clinic

13
psychological
counselors

Healthcare services include 3 infirmaries, a dental clinic and a psychological counseling center. All Boğaziçi people have equal right to receive in-campus healthcare services.

