

BARTIN UNIVERSITY SUSTAINABILITY REPORT

2020-2021



TABLE of CONTENTS

1. INTRODUCTION	1
2. CAMPUS LOCATION AND INFRASTRUCTURE	3
3. ENERGY AND CLIMATE CHANGE	7
4. WASTE MANAGEMENT	23
5. WATER RESOURCES	37
6. TRANSPORTATION	43
7. EDUCATION	52



1. INTRODUCTION

Bartın University focuses on education, research and social responsibility, environmental consciousness and sustainability issues on the aspect of “**Sustainable Environment**” and moves with the aim of becoming a “Green Campus”.

Bartın University has accelerated its studies within the scope of **GreenMetric**, “World Environmental Universities Ranking”. In the 2019 ranking, it was ranked 16th among 43 universities in our country and 348th in the world.

With the “**Zero Waste Project**” on sustainability and environment, especially wastes and recycling; Important steps have been taken in the fields of water use, energy saving, education and research. Special studies are carried out on energy efficiency.

In this context, Bartın University provides both infrastructure and energy efficiency with its smart buildings under construction on the Kutlubey Campus and thermal insulation made with environmentally friendly insulation materials on the Ağdacı Campus in terms of structure and infrastructure.

It supports the green campus policy with its efforts to protect and increase and improve green areas and even to increase water-absorbing areas.

On the Kutlubey campus, a pond was created with rain harvesting and this water source is used for irrigation of green areas. In addition, this pond and its surroundings have been developed, increasing biodiversity and providing a valuable recreation area to the campus and Bartın.





Still, within the scope of the “Zero Waste Project”, waste reduction programs have been put into practice for the recovery and disposal of waste.

There are wastewater treatment plants in both campuses, they are operated with high efficiency and their discharges are given to wetlands, contributing to the water cycle. It develops water saving programs and water recycling programs for the efficient use of water resources and prevention of waste.



In terms of transportation, for less carbon footprint ring applications performed in the University. In the field of education, courses and applications are carried out in the associate, bachelor, master and doctorate programs.



Within the scope of “100/2000 YÖK Doctoral Scholarships Project” of Council of Higher Education (YÖK), “Sustainable Forestry”, “Forestry Products and Technology” and “Sustainable and Intelligent Cities” doctoral education provided by Bartın University and also Bartın University raise awareness together with research projects and practices with various kind of activities with environmental educations.

2. CAMPUS LOCATION and INFRASTRUCTURE

Bartın University has 4 Campuses and green areas are covering high amount of area within the campus. Design, maintenance and application practices are carried out for the green areas. The buildings have the features of green building properties such as natural ventilation, all day natural lighting, energy management system etc.



Bartın University operates on 4 different campuses.

Ađdacı Campus



Ađdacı Campus



Ağdacı Campus



Ağdacı Campus



Ağdacı Campus

Kutlubey Campus



Kutlubey Campus



Kutlubey Campus



Kutlubey Campus



Kutlubey Campus



Kutlubey Campus



Kutlubey Campus

Ulus Campus



Ulus Campus

Kurucaşile Campus



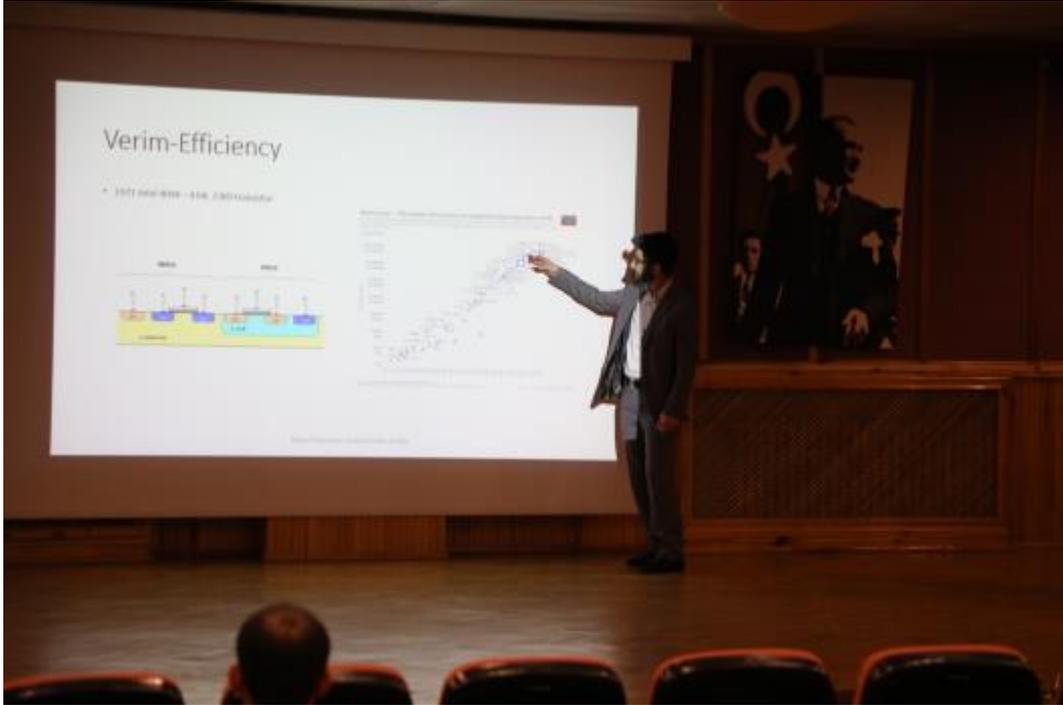
Kurucaşile Campus

3. ENERGY and CLIMATE CHANGE

Energy and Climate Change Energy efficient devices and applications are used in buildings. LED lightening and energy saving bulbs are used throughout the campus. Energy efficient devices are also used. Most of the buildings have automatic doors and automatic fire alarm systems.



Energy savings are achieved with LED lighting systems.



“Energy Saving Seminars” were held to explain Energy Saving and make it permanent.



“Energy Efficiency Conferences” were held to teach what Energy Efficiency is and what it is not.

Within the scope of the "**Renewable Energy and Energy Efficiency Technical Assistance Project (YEVDES)**" carried out under the Ministry of Energy and Natural Resources, 2 projects of our university, which are in the top 5 in the fields of renewable energy and energy efficiency, succeeded in receiving R&D support.



- **“Intelligent Energy Management System for a Smart University”**: includes developing a smart energy management system in order to minimize energy consumption in universities, supporting the system with renewable energy sources and developing a smart phone application that will enable remote control of this system. When the project is completed, rooms, classrooms, corridors, toilets, stairs, etc. Artificial intelligence and internet of things (IOT) technology will be used in the energy management of areas.
- **“Production of High Energy Efficiency Base Ash/Phase Change Material Composites, Their Use in Building Materials and Determination and Optimization of Thermal Regulation Performances”**: Production of low cost phase change composite materials with high energy efficiency, their use in building materials and determination of thermal regulation performances within the scope of the project and to be optimized. Thus, it is aimed to obtain an energy efficient material with high thermal storage capacity. The effect of this material on building energy performance will be examined. With the newly obtained material with heat storage feature, there will be results such as reducing the cost of energy and fuel, and as a result, contributing to the reduction of foreign dependency in energy in our country by reducing environmental pollution.



LED lighting systems.

The number of LED lightings throughout the campus is increasing day by day and energy-saving bulbs are used predominantly. In this way, it is aimed to reduce energy consumption.



Lamps with sensors

The sensor lamps located indoors provides more healthy, comfortable, and efficient lighting. In addition, energy consumption is also reduced.



A + refrigerators and air conditioners with inverter technology.

At the same time, energy efficient devices are used. In this way, it is aimed to reduce the amount of energy consumption and it is aimed to reduce the amount of consumption per person. Many computers etc. Our device is covered by ENERGY STAR and its energy efficiency is certified.



QuickSpecs

HP EliteDesk 800 G3 and HP EliteOne 800 G3 Business Desktops PCs

Standard Features and Configurable Components (availability may vary by country)

AT A GLANCE

- Choice of four form factors: Tower, Small Form Factor
- New commercial ID on all form factors
- Intel® Q270 chipset supporting Intel® 7th generation featuring integrated Intel® HD Graphics and Intel® vPro™
- Processor support up to 65W on SFF, TFM and AIO;
- Support for Windows 10 to Windows 7 Downgrade
- Intel® HD graphics or optional discrete graphics (e.g. NVIDIA)
- Intel® Ethernet Connection I219V / 1 GbE LOM integr.
- DDR4 Synchronous Dynamic Random Access Memory
- Support for up to three monitors via two standard ports which provides the following choices: HDMI, VGA (e.g. 1.2 (see Ports section or pages 1-8 for port availability))
- Configurable 3rd rear i/o video port (HDMI, DisplayPort)
- Audio by Bang and Olufsen on the 800 G3 All-in-One
- TWR and SFF models can be configured with multiple drives
- HP Sure Start Gen3
- HP Manageability Integration Kit
- HP WorkWise
- Intel® Unite™, available with EliteDesk 800 G3 DM C
- Intel® vPro™ needs to be configured at factory (AIO models)
- High efficiency energy saving power supply options
- **ENERGY STAR certified** (EPEAT® Gold registered www.epeat.net for registration status by country).
- CE, FCC and SFC certified
- Optimized for Skype for Business; 800 G3 All-in-One
- TCO Edge for AIO; TCO certified for DM
- PC chassis and all internal components and modules are lead-free
- Arsenic-free
- Dust filter available for all platforms (except EliteOne)
- Protected by HP Services, including limited warranty (restrictions and exclusions apply); Care Packs available



Energy-efficient computers and monitors



Energy efficient printers and scanners



Energy efficient co-printers and copiers

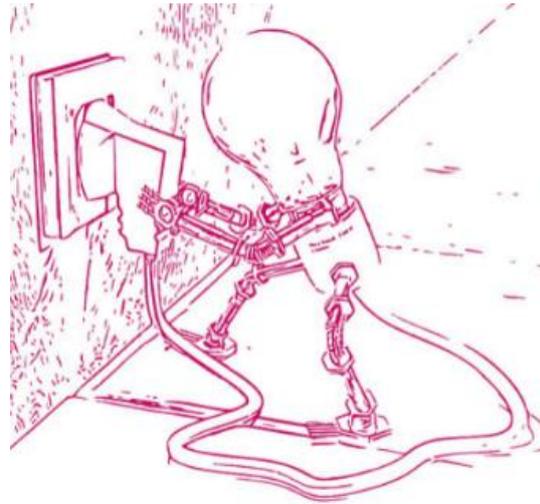


Efficient and energy-efficient heating is provided by adjustable radiator systems.

In order to save energy, informative presentations and stimulating visuals are prepared and presented to employees and students.



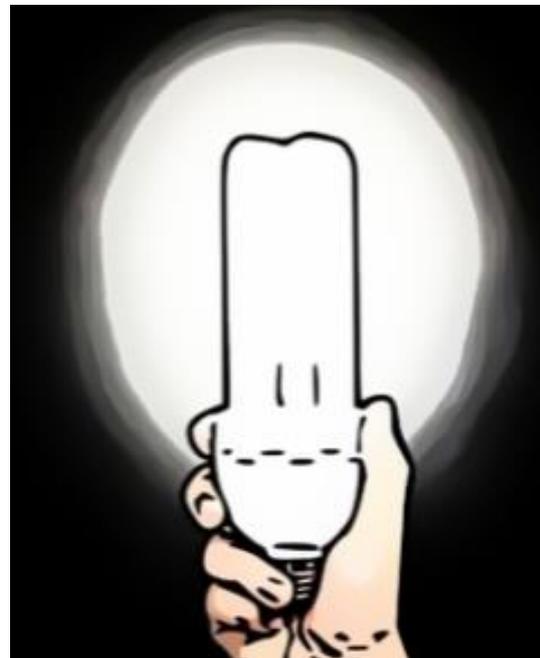
**Don't Forget to Shut Down
Your Computer!**



Turn off The Lamps!



**Do not Leave Devices in
Stand-by Position!**



Use LED Lamp!

The Energy Efficiency and Savings Club was established in our university to increase Energy Efficiency and Savings and to encourage students more in this regard.


Enerji Verimliliği ve Tasarrufu Kulübü

DAHA İYİ BİR YARIN İÇİN ENERJİ TASARUFU



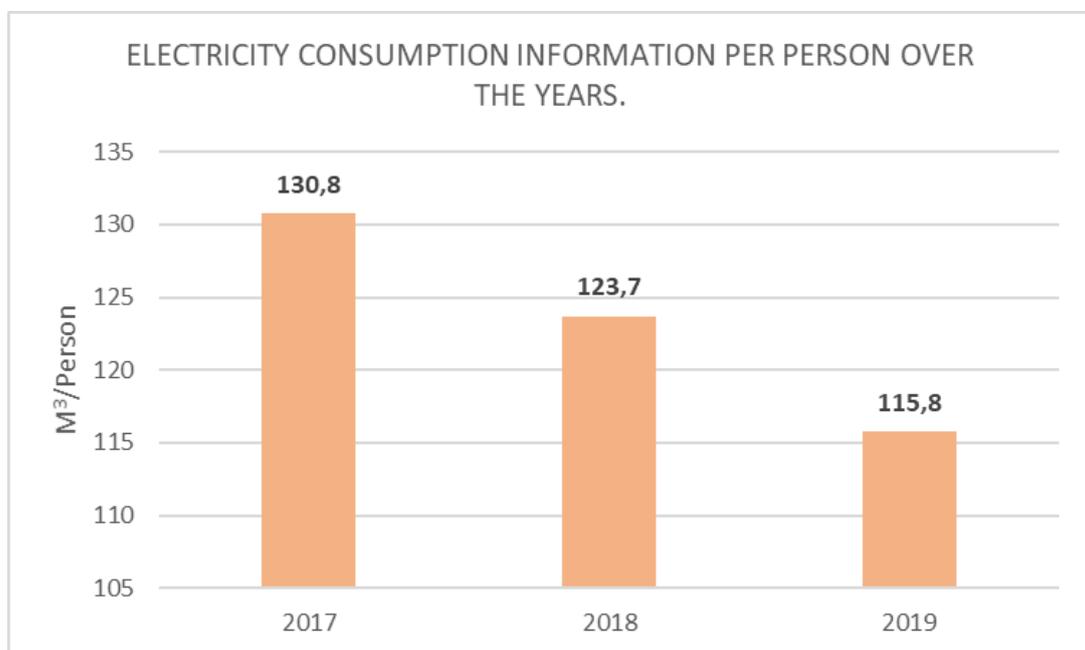
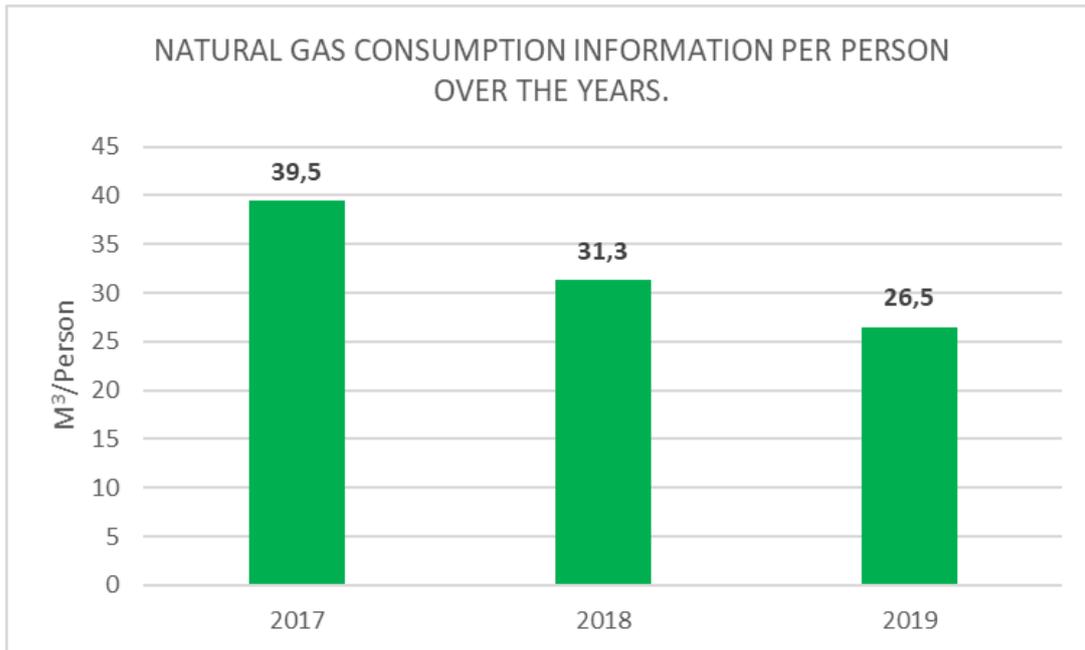
Üye olmak ve daha fazla bilgi için

İletişim Bilgileri

Dr. Öğr. Üyesi Mahir GÜLEN mgulen@bartin.edu.tr	Arş. Gör. Mehmet Akif PEÇE apece@personel.bartin.edu.tr
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<http://verimlienerji.bartin.edu.tr>

“Energy Efficiency and Savings Club” started its activities.



The amount of natural gas and electricity consumption per capita decreases every year.



Automatic fire alarm systems are available in our buildings.

There are automatic doors at the entrances of the buildings in our campuses.



The inside and outside of the buildings are continuously monitored by camera systems.

These features complement some of the requirements to ensure that our buildings are smart buildings and they work in harmony with our building management system.

Awareness studies are carried out to obtain energy from renewable energy sources. It is aimed to increase these with academic studies.



Solar energy system for charging devices like telephone etc.



Solar watering system for automatic watering of plants in offices



Academic studies are carried out using solar energy



Our First Electric Vehicle **ÇEŞM-İ CİHAN**



Our Second Electric Vehicle **GÖKBÖRÜ**



Üçüncü Elektrikli aracımız **SİMURG**

We participated in national competitions and won awards in different categories with our electric vehicles prepared by Mechanical Engineering students and consultants.



Promotion and Dissemination Incentive was received with **GÖKBÖRÜ** in 2019



SIMURG became the 2nd fastest car in the 16th TÜBİTAK Efficiency Challenge Electric Vehicle Races organized within the scope of TEKNOFEST 2020, and ranked 7th in efficiency.

Since the gallery system is glass, natural lighting is provided all day long in the corridor and breathing areas (No lighting elements are used).



Natural lighting (Faculty of Forestry)



Natural lighting (Faculty of Engineering, Architecture and Design)

All living areas have windows that provide natural ventilation that gives fresh air inside of the buildings.



Natural lighting is provided by openable glass ceilings



Natural ventilation (Sözel Classroom)



Plants that increase indoor air quality and visuality are located in the corridors.



With the vertical gardens in our buildings, green space is obtained and natural insulation is also provided.

All buildings are thermally insulated and heat losses are prevented. In this way, the amount of fuel in winter is minimized. Materials made from natural wool are used in the insulation.



The old buildings in Ağdacı Campus.were made energy efficient by making insulation



The newly built buildings on the Kutlubey Campus are insulated

4. WASTE MANAGEMENT

Bartın University carries out a recycling and waste reduction program with the “Zero Waste Management” approach. Precautions are taken to protect natural resources and use them efficiently. “Zero Waste Project” is carried out in all units. Trainings on waste management have been initiated and efforts have been on progress to prevent waste.



The amount of waste collected on our university campuses in 2018 and 2019



Zero Waste Collecting Points.



Our students have been educated with trainings about Zero Waste Project

Wastes are collected separately (packaging waste, battery, etc.) and given to recycling companies. Food waste is sent to animal shelters.



All employees pay attention to the collection of wastes with Zero Waste Project

With the waste recycling program carried out within the scope of Zero Waste Project, wastes are collected in an appropriate manner and delivered to recycling companies.



Zero Waste Temporary Storage Area



The collected wastes are weighed and entered into the system regularly.



Waste materials are recorded and delivered to recycling company

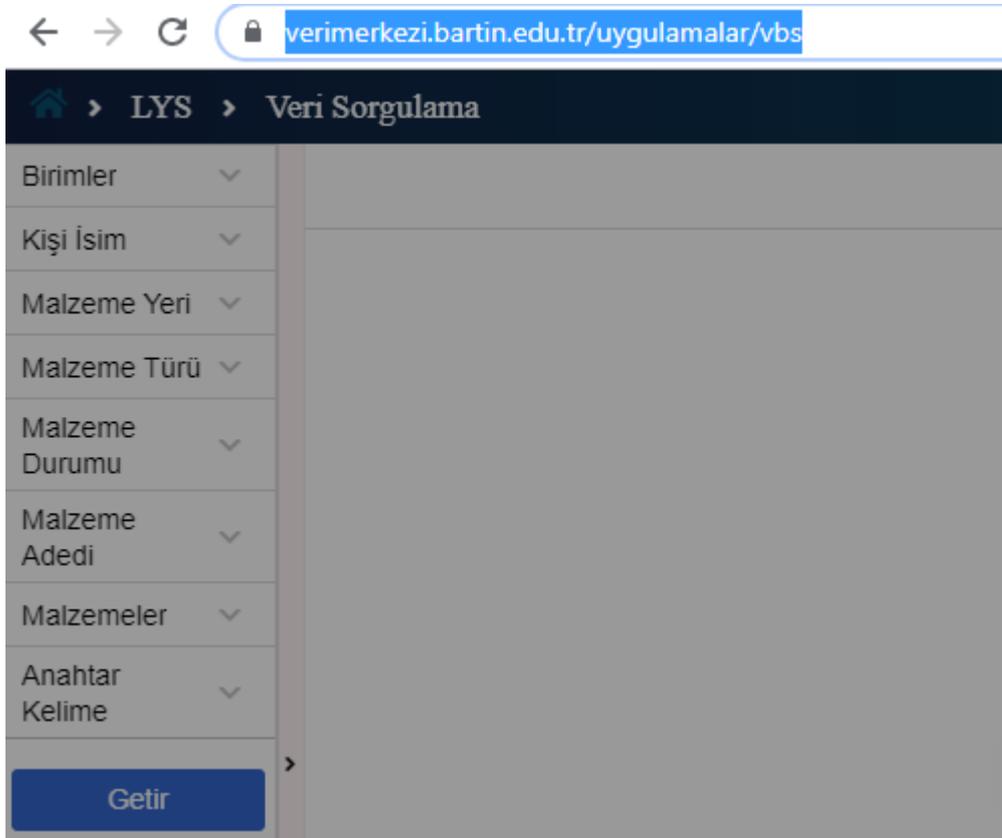


Compost is produced from organic wastes in our campuses.

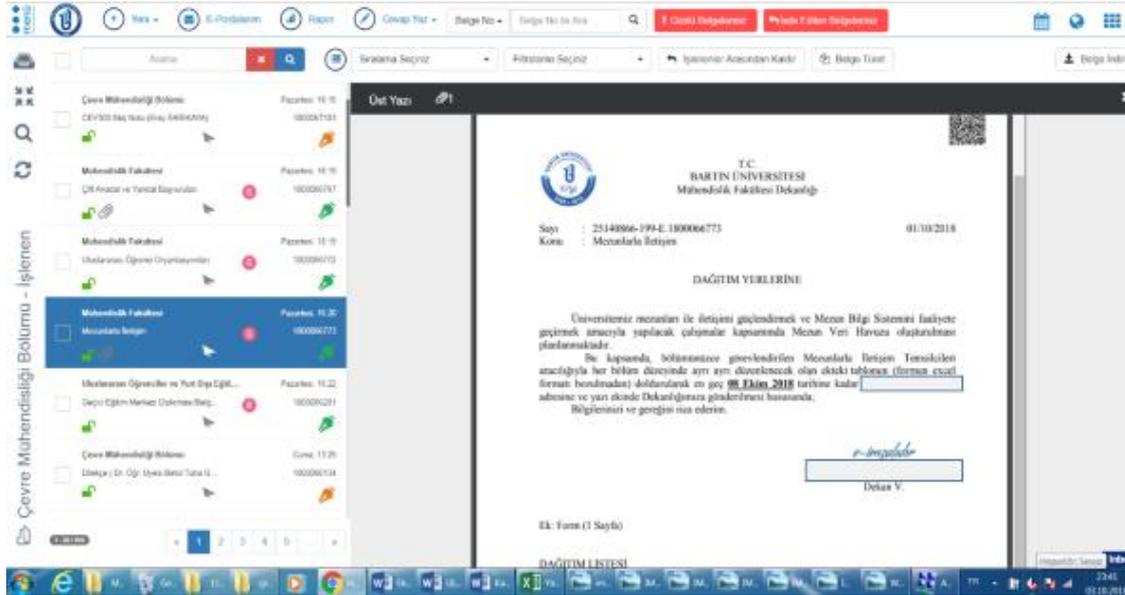
Together with the Zero Waste Project, different waste reduction programs are used in our university. Thanks to these programs, paper and plastic consumption and waste production are minimized.

Within the scope of waste reduction program

1. Logistics Management System (LYS)
(<https://verimerkezi.bartın.edu.tr/uygulamalar/vbs>)
2. Sıfır Atık Projesi Zero Waste project
3. E-signature system (<https://ubys.bartın.edu.tr/>)
4. Double-sided printing
5. Joint printer usage policy
6. Use of glass, porcelain and metal cups
7. The use of the back side of printed paper is preferred.
8. The use of cloth bags is encouraged; this reduces the consumption of plastic bags.



With the LYS system, the materials of units that are not needed are shared and savings are prevented from wasting



E-signature system was launched to reduce paper and plastic usage on campus.



Our energy efficient printers and copier machines that can do double-sided printing are connected to the joint network and used as a common printer.

This saves both decreasing the number of devices and reduces energy use.



To reduce the use of plastic and cardboard cups, our employees use glass, porcelain and metal cups for tea, coffee and so on. Our tea stoves, which can supply beverages, were put into service in every building.



Within the scope of Zero Waste, efforts are being made to reduce paper waste and awareness is being created.

6 TIPS FOR LESS PLASTIC WASTE



1

Use your own shopping bag.



2

Obtain a reusable water container.



3

Use your own cup.



4

Obtain reusable containers if you're bringing your food from home.



5

Stop using reusable products.



6

Store your leftovers in glass containers.



Within the scope of Zero Waste, works are being carried out to reduce plastic waste.



Our university aims to minimize the use of plastic bags with the cloth bags it has made.



Our University realizes the distribution of cloth bags with different activities

There are biological treatment facilities on campuses for the treatment of wastewater.



Ağdacı Campus Treatment Plant



Kutlubey Campus Package Treatment System

5. WATER RESOURCES

In order to “**Save Water**” a program has been created in Bartın University. For this purpose, a pond was created for collecting and storing the rainwater on Kutlubey Campus. For the irrigation of green areas was started in the campus area. Currently there is an automatic irrigation system for green areas, and it is watering the green lands in appropriate times.



Bartın University Kutlubey Campus Pond Project

The Pond Project has also started to host many living things. It has become rich in terms of biodiversity with the shelter of different species in and around it.





Kutlubey Campus Pond



Water from the pond is used for irrigation of green areas



Biodiversity increases on campus thanks to the Kutlubey pond



By placing various duck species in the pond, the diversity of ecological life increases and the lake become home to different species.



Another missing ecological step was eliminated by adding the juvenile carp fish to the pond.



In addition to animal species, different plant species began to grow thanks to the pond water.

Since the existing irrigation system has an automatic irrigation system for green areas, it saves water by irrigating at suitable times.



Automatic irrigation systems



The taps used in our university have flow-reducing properties, that helps saving water.



Our electrical cleaning tools used in building cleaning are effective in the efficient use of water by achieving low water consumption.

6. TRANSPORTATION

Bartın University provides public transportation with a ring service to reduce vehicle use. Two free shuttles are offered to Kutlubey and Ağdacı campuses every work day, for academic and administrative staff.

BARTIN ÜNİVERSİTESİ 2018-2019 YILI PERSONEL SERVİSİ VE RİNG GÜZERGAHI		
AĞDACI KAMPÜSÜ PERSONEL SERVİSİ		
DURAK	HAREKET YERİ VE PERSONEL SERVİSİ GÜZERGAHI	HAREKET SAATİ
1.Durak	KAMPÜS ÇIKIŞ	07:45
2.Durak	TÜRBE IŞIKLAR	07:53
3.Durak	BALAMBA HASTANE KAVŞAĞI	07:55
4.Durak	ULUS DURAĞI	07:57
5.Durak	ORDU YERİ KÖPRÜSÜ	07:59
6.Durak	YALI	08:01
7.Durak	MİLLİ EĞİTİM MÜDÜRLÜĞÜ	08:03
8.Durak	AKTIP	08:07
9.Durak	ÖZEL İDARE	08:11
10.Durak	A 101 DURAĞI	08:13
11.Durak	AFAD	08:15

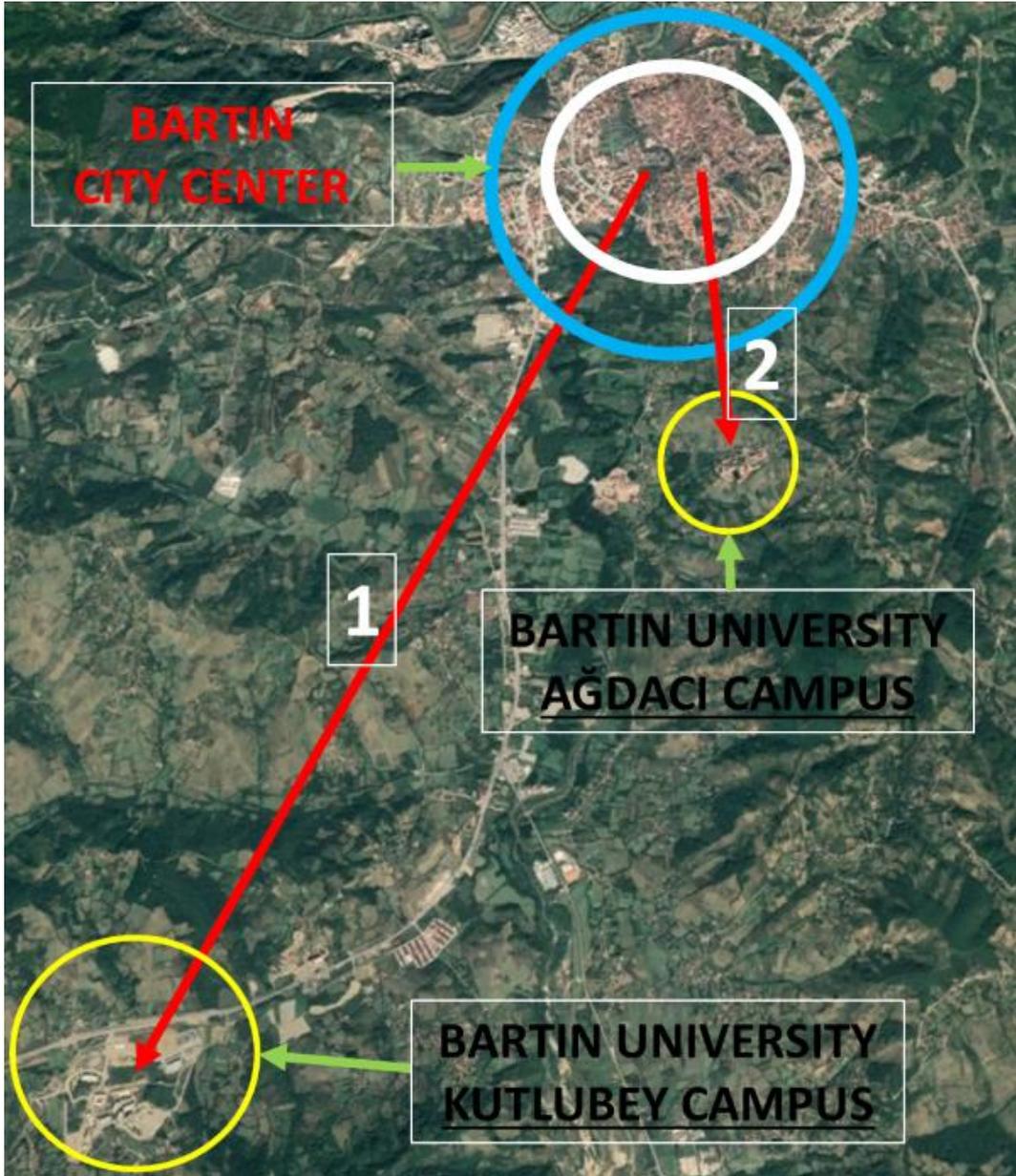
KUTLUBEY YAZICILAR KAMPÜSÜ RİNG GÜZERGAHI		
DURAK	HAREKET YERİ VE RİNG GÜZERGAHI	HAREKET SAATİ
1.Durak	KAMPÜS ÇIKIŞ	07:45
2.Durak	MYO	07:50
3.Durak	TÜRBE LOJMANLARI	07:52
4.Durak	ADLİYE LOJMANLARI	07:54
5.Durak	AKTIP	08:00
6.Durak	FORD BAYII	08:05
7.Durak	TOKSÖZLER PETROL	08:07
8.Durak	MİMAR SİNAN DERSLİĞİ	08:16

Free Staff Services

(<http://imid.bartın.edu.tr/ulasim-hizmetleri/ulasim-hizmetleri.html>)



The daily transportation of personnel is carried out free of charge with the shuttle vehicles of Bartın University, and the transportation of personnel and students between campuses is also carried out on special days.



Free staff services bring our staff from Bartın City Center to Ağdacı and Kutlubey Campus.

120 bicycles were distributed to the administrative and academic units and student clubs by our university and they were provided free of charge.



Bicycle paths are available on our campuses



Our campus hosts a variety of cycling activities.



For cyclists, bicycle parking spaces are located on different campuses.



Boats and canoes built by the Naval Architecture Department in Kurucaşile are used free of charge for educational and sightseeing purposes



Sidewalk, road and building entrances on campuses are designed to be disabled and pedestrian friendly



Signboards are placed inside the campuses for easy access of pedestrians and vehicles.

Bartın Üniversitesi
6 Birimde Turuncu Bayrak Almıştır

BAŞVURAN BİRİM	BAŞVURULAN KATEGORİ	BAŞVURULAN BAYRAK
Beden Eğitimi ve Spor Yüksekokulu	Fakülte Mekan	
Edebiyat Fakültesi	Fakülte Mekan	
Eğitim Fakültesi	Fakülte Mekan	
Fen Fakültesi	Fakülte Mekan	
Mühendislik Fakültesi	Fakülte Mekan	
İslam İlimler Fakültesi	Fakülte Mekan	



Our university has been awarded by YÖK for 6 Faculties in Barrier-Free Access.

7. EDUCATION

Courses, researches, academic publications and academic activities related to "Environment and Sustainability" are carried out in our university.

Many activities, studies, examinations are conducted by both academic and administrative, also by students in existing faculties and departments. In addition, environmental and sustainability activities are organized and/or contributed together with external stakeholders.

In the field of education, courses and applications are carried out in the associate, bachelor, master and doctorate programs. Within the scope of "100/2000 YÖK Doctoral Scholarships Project" of Council of Higher Education (YÖK), "Sustainable Forestry", "Forestry Products and Technology" and "Sustainable and Intelligent Cities" doctoral education provided by Bartın University and also Bartın University raise awareness together with research projects and practices with various kind of activities with environmental educations.

In order to increase the participation of students in sustainability activities, numerous clubs such as Environment Club, Forest Club, Bicycle Club, Maritime Club, Science and Technology Club have been established.

1 - Science and Technology Club

<https://www.instagram.com/biltekbartini/>

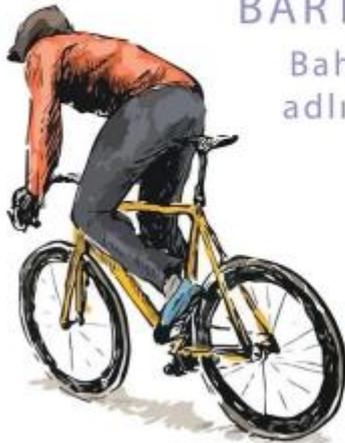


2 - Bicycle Club

<https://www.facebook.com/BisikletBrtnUni>



BARTIN ÜNİVERSİTESİ
BİSİKLET KULÜBÜ



BARTIN BİSİKLET TURU

Bahar Bisiklet İle Geliyor
adlı projemizde sizleri de
bekliyoruz.

 BARTIN VALİLİĞİ ÖNÜ
 KUTLUBEY KAMPÜSÜ
 21 NİSAN 2019
 11.00



BisikletBrtnUni

3 - Environment Club



- Büyükkızılkum Coastal Cleaning Activity - <https://greenmetricsen.bartın.edu.tr/haberler/buyukkizilkum-coastal-cleaning-activity.html>

4 - Nature and Animal Club

<https://dohak.bartın.edu.tr/> - <https://www.instagram.com/bartınunidohak/>



5 - Science Club

<http://fenkulubu.bartın.edu.tr/>



- Science Day with Kids - <http://fenkulubu.bartın.edu.tr/haberler/kucuk-misafirlerimizle-bilim-etkinligi-gerceklestirildi..html>

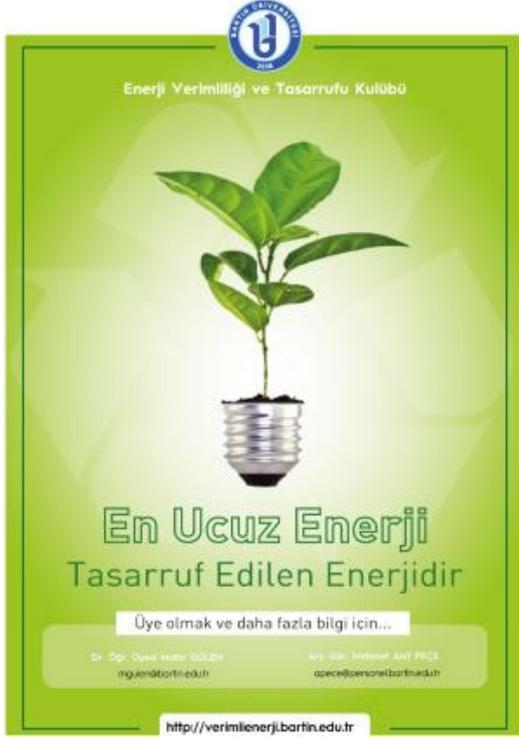
6 - Management and Information Systems Club

<https://ybskulubu.bartın.edu.tr/>



- Our Club Met at Breakfast and Sapling Planting Event - <https://ybskulubu.bartın.edu.tr/haberler/kulubumuz-kahvalti-ve-fidan-dikme-etkinliginde-bulustu..html>

7 - Energy Efficiency and Conservation Club
<http://verimlienerji.bartın.edu.tr>



- Energy Efficiency and Conservation Club prepared documents for all campus people in order to increase how to conserve energy and how to use it efficiently.

8 - Forestry Club

<https://www.instagram.com/bartınormankulubu/>

9 - Scientific Research Club

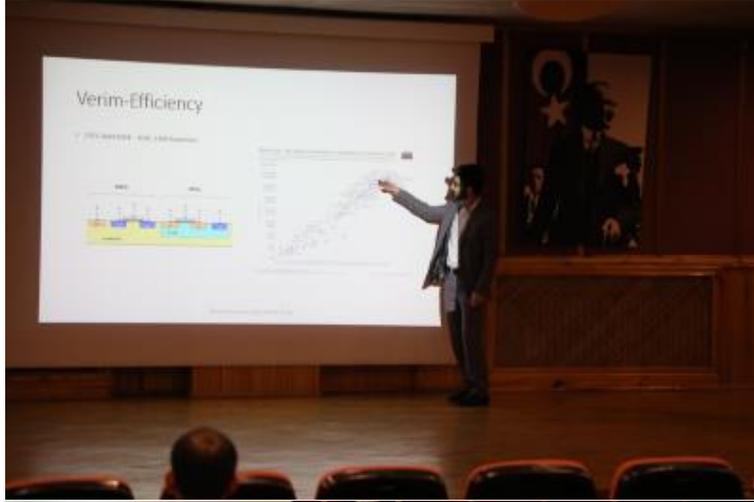
10 - Electric Electronic Club

11 - Health club

12 - Engineer Development and Project Design Club

Faculties, institutes and clubs in our university carry out many different activities on sustainability and the environment.

2020



Energy Saving Issue Was Noted.
(17.01.2020) – Link: <https://w3.bartın.edu.tr/haberler/enerji-tasarrufu-konusuna-dikkat-cekildi.html> -



Information on energy efficiency and saving was given.
(27.02.2020) – Link: <https://w3.bartın.edu.tr/haberler/enerji-verimliliği-ve-tasarrufu-konusunda-bilgiler-verildi.html>





Our Department of Vegetable and Animal Production Has Harvested Vegetables and Fruits.

(26.08.2020) – Link:

<https://greenmetricsen.bartin.edu.tr/haberler/first-watermelon-harvest-from-our-plant-and-animal-production-department.html>





Compost Production was carried out within the scope of **Organic Fertilizers, Fertilization and Ecology Course.** (30.06.2020) – Link: <http://bitkisel.bartın.edu.tr/haberler/ogrencilerimizle-kompost-yapimi.html> -



2019



'TÜBİTAK 4004 Nature Education Project' was accepted (03.01.2019) – Link:
<https://w3.bartın.edu.tr/haberler/tubitak-4004-doga-egitimi-projesi-kabul-edildi.html> -



"Forestry in Turkey" Panel was Performed (27.03.2019) – Link:
<https://greenmetricsen.bartın.edu.tr/haberler/forestry-in-turkey-panel-was-performed.html>

**BARTIN
KENT KİMLİĞİ
ÇALIŞTAYI**



**17 NİSAN 2019
ÇARŞAMBA**

SAAT : 09:00 - 17:30
BARTIN ÜNİVERSİTESİ
AĞDACI KAMPÜSÜ KONFERANS SALONU

**“ BİR DİLEĞİMİZ VAR MARKA
KENT OLMAK ”**

"Bartın Urban Identity Workshop" Was Held (17.04.2019) – Link:
<https://greenmetrics.bartın.edu.tr/haberler/bartın-kent-kimligi-calistayi-gerceklestirildi.html> -



"ZERO WASTE FOR OUR FUTURE" Event was Held (22.05.2019)

– Link:

<https://greenmetricsen.bartin.edu.tr/haberler/zero-waste-for-our-future-event-was-held.html>



"That Village is Our Science Village" Project Brought 'Science, Nature and Art' Children in Villages (03.07.2019) – Link:

<https://greenmetricsen.bartin.edu.tr/haberler/that-village-is-our-science-village-project-brought-science-nature-and-art-children-in-villages.html>



“Gökbörü” Entered Top 10 at TÜBİTAK's Electric Vehicle Races (23.09.2019) – Link:
<https://greenmetricsen.bartin.edu.tr/haberler/gokboru-entered-top-10-at-tubitaks-electric-vehicle-races..html> -



For a Green, Environmentally Friendly and Sustainable University We are Planting Trees at Kutlubey Campus (15.10.2019) – Link:
<https://greenmetricsen.bartin.edu.tr/haberler/for-a-green-environmentally-friendly-and-sustainable-university-we-are-planting-trees-at-kutlubey-campus.html> -



Our Students Supported 'Sustainable Green Campus' Studies with Authentic Learning Activities (16.10.2019) – Link:
<https://greenmetricsen.bartin.edu.tr/haberler/our-students-supported-sustainable-green-campus-studies-with-authentic-learning-activities.html> -



5000 Saplings were Planted Within the Scope of "National Afforestation Day" and "Breathing to the Future" Campaign! (11.11.2019) – Link: <https://greenmetricsen.bartin.edu.tr/haberler/5000-saplings-were-planted-within-the-scope-of-national-afforestation-day-and-breathing-to-the-future-campaign.html> -



Plastic Lives, Drinking Plastics and Cancer Conference was Held (29.11.2019) – Link: <https://greenmetrics.bartin.edu.tr/haberler/plastik-hayatlar-icilen-plastikler-ve-kanser-konferansi-gerceklestirildi..html> -

<https://w3.bartin.edu.tr/haberler/universitemizdeki-konferansta-plastikteki-tehlikeye-dikkat-cekildi.html>



**Upcycling Workshop
Held (22.12.2019) –**

Link:

<https://greenmetrics.bartın.edu.tr/haberler/ileri-donusum-upcycling-atolyesi-gerceklestirildi.html> -

2018

Bartın Üniversitesi

**DÜNYADA ve TÜRKİYE'DE
SÜRDÜRÜLEBİLİR GELİŞME HEDEFLERİ**

Prof. Dr. Tüzin BAYCAN
İstanbul Teknik Üniversitesi
Mimarlık Fakültesi Öğretim Üyesi

10 OCAK 14:00 - Konferans Salonu

**Sustainable
Development Goals in
Turkey and the World
Conference**

(10.01.2018) – Link:

<https://greenmetricsen.bartın.edu.tr/haberler/sustainable-development-goals-in-turkey-and-the-world-conference-was-held.html>

<https://w3.bartın.edu.tr/haberler/surdurulebilir-gelisme-hedefleri-konferansi.html>



Bartın University lecturers gave nature education (26.03.2018)

– Link:

<https://greenmetricsen.bartin.edu.tr/haberler/bartin-university-lecturers-gave-nature-education.html>

<https://w3.bartin.edu.tr/haberler/bartin-orman-fakultesi-ogretim-uyeleri-doga-egitimi-verdi.html>





Forestry panel in the World and Turkey (20.03.2018) – Link: <http://greenmetrics.bartın.edu.tr/haberler/dunyada-ve-turkiyede-ormanciligin-gundemi-konusuldu.html>





**Forests and Forestry
Exhibition (20.03.2018)**

– Link:

<http://greenmetrics.bartın.edu.tr/haberler/ormanlarimiz-ve-ormancilik-sergisi.html>





**Büyükkızilkum
Coastal Cleaning
Activity (30.04.2018) –**

Link:

<https://greenmetricsen.bartin.edu.tr/haberler/buyukkizilkum-coastal-cleaning-activity.html>



Tree Planting Event at Kutlubey Campus for a Green University
(05.04.2018) – Link:
<http://greenmetrics.bartın.edu.tr/haberler/daha-yesil-universite-icin-kutlubey-kampusunde-fidan-dikim-etkinligi.html>

<https://w3.bartın.edu.tr/haberler/daha-yesil-bir-kampus-icin-fidan-diktiler.html>





IV. Environmental Engineering Project Event (09.05.2018) –

Link:

<http://greenmetrics.bartın.edu.tr/haberler/iv.-cevre-muhendisligi-proje-etkinligi-gerceklestirildi.html>

<https://cevre.bartın.edu.tr/etkinlikler/v.-cevre-muhendisligi-proje-etkinligi-04265903.html>




BARTIN ÜNİVERSİTESİ
II. AR-GE PROJE PAZARI
 11 Mayıs 2018 / Bartın

Ana Temalar

- ✓ Bilişim Teknolojileri
- ✓ Biyomedikal / Biyoteknoloji
- ✓ Çevre Teknolojileri
- ✓ Endüstriyel Malzeme Üretimi ve Uygulamaları
- ✓ Elektrik Elektronik Teknolojileri
- ✓ Enerji ve Alternatif Enerji
- ✓ Gıda Teknolojileri
- ✓ Gemi İnşa Teknolojileri
- ✓ İleri Malzeme Üretimi ve Uygulamaları
- ✓ Kimya / İlaç Teknolojileri
- ✓ Makine Teknolojileri
- ✓ Orman Endüstrisi
- ✓ Odun Dışı Orman Ürünleri
- ✓ Sürdürülebilir ve Akıllı Kentler
- ✓ Tekstil Teknolojileri
- ✓ Yapı Malzemeleri Üretimi ve Uygulamaları
- ✓ Yenilenebilir Enerji Kaynakları
- ✓ Yeşil Kimya ve Mühendisliği

Son Başvuru: 16 Nisan 2018

Ödüller	Ödül Tutarları	Önemli Tarihler	Önemli Tarihler
Birincilik	: 6.000 TL	16 Nisan 2018	: Proje Özetlerinin Son Gönderilme Tarihi
İkincilik	: 4.000 TL	30 Nisan 2018	: Ön Değerlendirme Sonuçlarının İlanı
Üçüncülük	: 2.000 TL	07 Mayıs 2018	: Poster Teslimi
Mansiyon	: 1.000 TL	11 Mayıs 2018	: Proje Sergisi ve Proje Yangıması
		11 Mayıs 2018	: Ödül Töreni

Destek veren kurum ve kuruluşlar






II. R & D (Research and Development) Project Market

(11.05.2018) – Link:
<https://w3.bartın.edu.tr/haberler/ii.arge-projepazarında-en-iyi-projeler-odullendirildi.html>

<https://w3.bartın.edu.tr/haberler/ii.argeprojepazarinatubitaktandestek.html>



Güzelcehisar Coastal Cleaning Activity

(12.05.2018) – Link:
<https://bartın.csb.gov.tr/guzelcehisar-da-kiyi-temizligi-etkinligi-haber-225945>



Adana Bicycle Workshop (25.05.2018)

– Link:

<https://greenmetrics.bartın.edu.tr/duyurular/adana-bisiklet-calistayi.html>



TÜBİTAK 4004 Nature Education and Science Schools Program (19.07.2018) – Link:

Link:

<http://greenmetrics.bartın.edu.tr/haberler/tubitak-4004-doga-egitimi-ve-bilim-okullari-programi.html>



<https://w3.bartın.edu.tr/haberler/tubitak-4004-doga-egitimi-ve-bilim-okullari-programi.html>



**Bartın University
Kutlubey Campus
Cycling Tour**
(22.09.2018) – Link:
<https://www.facebook.com/events/248923979101825/>



2nd Meeting for "Zero Waste" Project
(04.10.2018) – Link:
<http://greenmetrics.bartın.edu.tr/haberler/universitemizde-uygulanacak-olan-sifir-atik-projesi-icin-2.-toplanti-duzenlendi.html>



Our 1st Electrical Car (Çeşm-i Cihan) Participated to the Efficiency Challenge
(06.08.2018) – Link:
<http://greenmetrics.bartın.edu.tr/haberler/cesmi-cihan-yuvaya-dondu.html>



**Bartın University
Kutlubey Campus
Pond and Surrounding
Area Project Work**
(01.10.2018) – Link:
<http://peyzaj.bartin.edu.tr/haberler/b.u.-kutlubey-kampusu-golet-ve-yakin-cevresi-proje-calismasi-yapildi.html>



**Ulus Vocational School
realized“Our Lesson in
Nature” activity**
(04.10.2018) – Link:
<http://greenmetrics.bartın.edu.tr/haberler/ulus-meslek-yuksekokulu-ulus-myoo-dersimiz-dogada-etkinligi-gerceklestirildi.html>



<https://w3.bartın.edu.tr/haberler/ulus-myoo-grencileri-dogada-ders-ilediler.html>



Recent Developments in Landscape Architecture Applications

(17.10.2018) – Link:
<http://peyzaj.bartın.edu.tr/haberler/carsamba-soylesilerinin-ikincisi-gerceklesti.html>



"Zero Waste" Project Information Presentation

(13.12.2018) – Link:
<http://cevre.bartın.edu.tr/haberler/cevre-muhendisligi-ogrencilerine-sifir-atik-projesi-hakkinda-bilgilendirme-sunumu-yapildi.html>



Ecological Neighborhood Design for Sustainable

(13.12.2018) – Link:
<http://peyzaj.bartın.edu.tr/haberler/carsamba-soylesileri-prof.-dr.-h.-selma-celikyay-surdurulebilir-yerlesmeler-icin-ekolojik-mahalle-tasarimi.html>



**Opening Ceremony of
Zero Waste Project**
(28.12.2018) – Link:
<https://w3.bartın.edu.tr/haberler/universitemiz-sifir-atik-projesi-acilis-toreni-gerceklestirildi.html>

28 Aralık 2018
Saat: **14.30**

Ağdaç Kampüsü
Konferans Salonu



facebook.com/bartinedu

twitter.com/bartinedu

instagram.com/bartinuni

www.bartın.edu.tr

2017



**Aquatic Ecosystems
Conference**

(03.01.2017) – Link:
<http://greenmetrics.bartinn.edu.tr/haberler/sucul-ekosistemler-konferansi.html>





BARTIN ÜNİVERSİTESİ
BİSİKLET KULÜBÜ

SÖYLEŞİ



18 Mayıs 2017 - 10.30
BÜ Konferans Salonu

“My Life is Two
Wheels” Interview
with Kaya Palancılar
(18.05.2017) – Link:
<https://greenmetrics.bartın.edu.tr/duyurular/hayati-m-iki-teker-konulu-soylesi.html>



III. Environmental Engineering Project Event (24.05.2017) –

Link:

<http://greenmetrics.bartın.edu.tr/haberler/iii.-cevre-muhendisligi-proje-etkinligi-gerceklestirildi.html>





15 July Martyrs' Memorial Forest Planting Saplings
(13.07.2017) – Link: <http://greenmetrics.bartın.edu.tr/haberler/15-temmuz-sehitleri-hatira-ormani-fidan-dikimi.html>



Training of generative and vegetative production of plants (19.09.2017) – Link:
<https://w3.bartın.edu.tr/haberler/bitkilerde-generatif-vejetatif-uretimi-projesi.html>




BÜYENARUM

PANEL


T.C.
Bartın Bilim, Sanayi ve
Teknoloji Müdürlüğü



**KÜRESEL İKLİM DEĞİŞİMİ
YENİLENEBİLİR ENERJİNİN ÖNEMİ**



**22 Aralık
2017
14:00**
Bartın Üniversitesi
Konferans Salonu

OTURUM BAŞKANI
Prof. Dr. Nedim SARAÇOĞLU
Bartın Üniversitesi

KONUŞMACILAR

Doç. Dr. Hamdi UÇUN ÖZEL
Bartın Üniversitesi

Doç. Dr. Cakıran GÜNDEZ
Bartın Üniversitesi

Yrd. Doç. Dr. Abil USTAĞLU
Bartın Üniversitesi

Bartın Sektörel Kalkınma ve İşbirliği Kurulu (BARKİK) ile Kamu-Üniversite-Sanayi İşbirliği Kurulu kapsamında Bartın Üniversitesi Yenilenebilir Enerji Uygulama ve Araştırma Merkezi (BÜYENARUM) tarafından düzenlenmektedir.

**Global Climate Change
and the Importance of
Renewable Energy
Panel (22.12.2017) –**

Link:

<https://buyenarum.bartın.edu.tr/duyurular/kuresel-iklim-degisikligi-ve-yenilenebilir-enerjinin-onemi-konusuldu.html>

ODUN DIŐI ORMAN ÜRÜNLERİ VE TIBBİ AROMATİK BİTKİLER PANELİ



Devlet Konuşmacılar

- Prof. Dr. Etra KÜPELİ AKKOL, Gazi Üniversitesi
- Prof. Dr. Yüksel KAN, Selçuk Üniversitesi
- Doç. Dr. Ayben KILIÇ PEKGÖZLÜ, Bartın Üniversitesi
- Selahattin YANIK, Bartın Orman İşleme Müdürlüğü

Organizasyon Başkanı

- Prof. Dr. İbrahim TÜMEN, Bartın Üniversitesi

Panel Yeri

Bartın Üniversitesi Konferans Salonu, Ağıldacı
Kampüsü, Bartın.

DÜZENLEYEN KURULUŐLAR



KATKI SAĞLAYAN KURULUŐLAR



**Non-Wood Forest
Products and
Medicinal Aromatic
Plants Panel**
(26.12.2017) – Link:
<https://greenmetrics.bartın.edu.tr/duyurular/odun-disi-orman-urunleri-ve-tibbi-aromatik-bitkiler-paneli.html>

2016

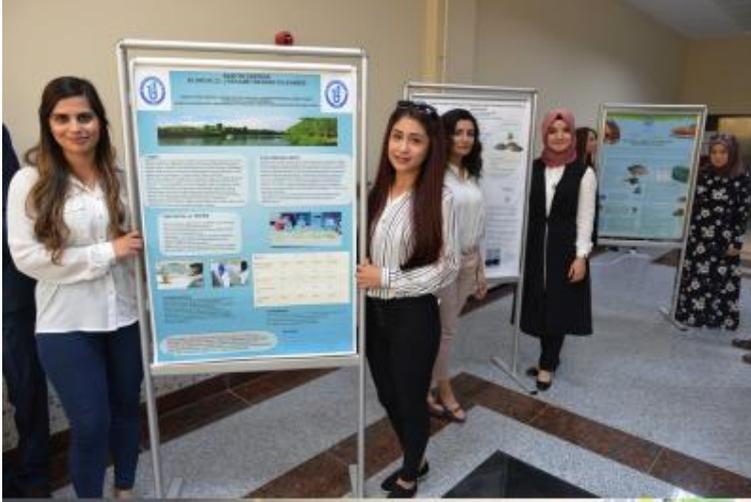


Salep Station Kozcağız
(03.02.2016) – Link:
<http://www.bartın.info/tarım/salep-duragi-kozcagiz-protokolu-imzalandi-h22634.html>



Bartın University
Sapling Planting
Ceremony (24.03.2016)
– Link:
<http://greenmetrics.bartın.edu.tr/haberler/bu-fidan-dikme-toreni.html>





II. Environmental Engineering Project
(31.05.2016) – Link: <http://greenmetrics.bartın.edu.tr/haberler/ii.-cevre-muhendisligi-proje-etkinligi-gerceklestirildi.html>



Greenmetric Meeting
(1.11.2016) – Link: <http://greenmetrics.bartın.edu.tr/haberler/universitemzide-greenmetric-toplantisi-yapildi.html>



Technical trip to Küre Mountains

(24.11.2016) – Link: http://myo.bartın.edu.tr/haber_goster.php?olay_ID=37



Bartın OSB Wastewater Treatment Plant Technical Trip

(09.12.2016) – Link: <http://cevre.bartın.edu.tr/etkinlikler/organize-sanayi-atiksu-aritma-tesisine-ve-bartın-inovasyon-ve-test-merkezi-teknik-gezileri.html>

Bartın University's academic staff continues their scientific studies in different branches and as a result of these studies, hundreds of articles, papers and books are produced every year. Among these studies, dozens of them are **Sustainability** oriented publications.

Publications in 2020:

1- Impacts of Small-Scale Mechanized Logging Equipment on Soil Compaction in Forests. (Varol, T., Emir, T., Akgul, M. et al. Impacts of Small-Scale Mechanized Logging Equipment on Soil Compaction in Forests. *J Soil Sci Plant Nutr* (2020). <https://doi.org/10.1007/s42729-020-00182-5>)

Journal of Soil Science and Plant Nutrition (2020) 20:953–963
<https://doi.org/10.1007/s42729-020-00182-5>

ORIGINAL PAPER

Impacts of Small-Scale Mechanized Logging Equipment on Soil Compaction in Forests

Tugrul Varol¹ · Tuna Emir¹ · Mustafa Akgul² · Halil Baris Ozel³ · Hafiz Hulusi Acar⁴ · Mehmet Cetin⁵

Received: 24 September 2019 / Accepted: 19 January 2020 / Published online: 27 January 2020
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2- Integrating of settlement area in urban and forest area of Bartın with climatic condition decision for managements. (Zeren Cetin, I., Ozel, H.B. & Varol, T. Integrating of settlement area in urban and forest area of Bartın with climatic condition decision for managements. *Air Qual Atmos Health* 13, 1013–1022 (2020). <https://doi.org/10.1007/s11869-020-00871-1>)

3- Properties of lightweight concrete blocks with waste zeolitic tuff (Ilker TEKIN, Turkey KOTAN, Allison T. OSMANSON, Witold BROSTOW, Osman GENCEL, Gonzalo MARTINEZ-BARRERA, Properties of lightweight concrete blocks with waste zeolitic tuff, *Materials Science*, Vol. 26 No. 4 (2020), <https://doi.org/10.5755/j01.ms.26.4.22777>)

4- A fast and robust approach for the green synthesis of spherical Magnetite (Fe₃O₄) nanoparticles by *Tilia tomentosa* (Ihlamur) leaves and its antibacterial studies (Rajendrachar, S., Karaoglanli, A. C., Ceylan, Y., & Uzun, O. (2020). A fast and robust approach for the green synthesis of spherical Magnetite (Fe₃O₄) nanoparticles by *Tilia tomentosa* (Ihlamur) leaves and its antibacterial studies. *Pharmaceutical Sciences*, 26(2), 175-183.)

5- Effects of concrete waste on characteristics of structural fired clay bricks (Gencil, O., Erdogmu, E., Sutcu, M., & Oren, O. H. (2020). Effects of concrete waste on characteristics of structural fired clay bricks. *Construction and Building Materials*, 119362.)

6- A Comparative Study of Thermal and Fuel Performance of an Energy-Efficient Building in Different Climate Regions of Turkey (Ustaoglu, A., Kurtoğlu, K., & Yaras, A. (2020). A Comparative Study of Thermal and Fuel Performance of an Energy-Efficient Building in Different Climate Regions of Turkey. *Sustainable Cities and Society*, 102163.)

7- Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models (Yaseen, Z. M., Al-Juboori, A. M., Beyaztas, U., Al-Ansari, N., Chau, K. W., Qi, C., ... & Shahid, S. (2020). Prediction of evaporation in arid and semi-arid regions: a comparative study using different machine learning models. *Engineering applications of computational fluid mechanics*, 14(1), 70-89.)

8- The activation energy and antibacterial investigation of spherical Fe₃O₄ nanoparticles prepared by Crocus sativus (Saffron) flowers (Rajendrachari, S., & Ceylan, K. B., The activation energy and antibacterial investigation of spherical Fe₃O₄ nanoparticles prepared by Crocus sativus (Saffron) flowers, *Biointerface Research in Applied Chemistry*, Volume 10, Issue 4, 2020, 5951 - 5959)

9- Determining the priorities in utilization of forest residues as biomass: an A'wot analysis. (Kurt, R. (2020). Determining the priorities in utilization of forest residues as biomass: an A'wot analysis. *Biofuels, Bioproducts and Biorefining*, 14(2), 315-325.)

10- Socio-economic and cultural sources of conflict between forest villagers and forest; a case study from Black Sea Region (Durkaya, B., Kaptan, S., & Durkaya, A. (2020). Socio-economic and cultural sources of conflict between forest villagers and forest; a case study from Black Sea Region, Turkey. *Crime, Law and Social Change*, 1-19.)

All of our publications in 2020:

[Our Academic Publications on Environment and Sustainability \(2020\) - Greenmetrics eng - Bartın Üniversitesi \(bartin.edu.tr\)](https://www.bartın.edu.tr/greenmetrics)

Publications in 2019:

1- Landscape Design for a Sustainable Campus: Bartın University Kutlubey Campus Natural Pond And Surroundings (Artar, M., Dal, İ., Öztaş, R. G., & Karayılmazlar, A. S. Landscape Design for a Sustainable Campus: Bartın University Kutlubey Campus Natural Pond And Surroundings. İnönü Üniversitesi Sanat ve Tasarım Dergisi, 9(19), 129-136.) <https://dergipark.org.tr/tr/pub/iujad/issue/47468/571716>

2- Orchid Species and Their Habitats Located in Ağdacı Campus of Bartın University (NAYİM, Y. S. Orchid Species and Their Habitats Located in Ağdacı Campus of Bartın University, Turkey. Bartın Orman Fakültesi Dergisi, 21(1), 21-30.) <https://dergipark.org.tr/tr/pub/barofd/issue/42096/487937>

3- Relationship Between Renewable Energy Resources and Domestic Savings: The Case of Turkey (CEYHAN, Ö. Ü. S., PEÇE, A. G. M. A., & KAMACI, Ö. Ü. A. Yenilenebilir Enerji Kaynakları İle Yurtiçi Tasarruflar Arasındaki İlişki: Türkiye Örneği.)

4- CHARACTERIZATION OF CLAY BASED BRICKS WITH BOTTOM ASH AND FLY ASH WASTE ADDITION (Erdoğan, E., Sütçü, M., Gençel, O., & ÇAY, V. V. CHARACTERIZATION OF CLAY BASED BRICKS WITH BOTTOM ASH AND FLY ASH WASTE ADDITION.)

5- Analysis of forest change and deforestation in Turkey (Günşen, H. B., & Atmış, E. (2019). Analysis of forest change and deforestation in Turkey. International Forestry Review, 21(2), 182-194.) <https://bioone.org/journals/international-forestry-review/volume-21/issue-2>

6- Urban Greenway Systems within the Context of Sustainable Landscapes (CENGİZ CANAN, BOZ AYBÜKE ÖZGE (2019). Urban Greenway Systems within the Context of Sustainable Landscapes. New Approaches to Spatial Planning and Design, Applications, pp: 165-181. First Edition, Publisher: Peter Lang. ISBN 978-3-631-78274-3.)

7- Influence of tea waste concentration in the physical, mechanical and thermal properties of brick clay mixtures (S Ozturk, M Sutcu, E Erdogmus, O Gencel, Influence of tea waste concentration in the physical, mechanical and thermal properties of brick clay mixtures Construction and Building Materials 217, 592-599) <https://www.sciencedirect.com/science/article/pii/S0950061819312838>



Influence of tea waste concentration in the physical, mechanical and thermal properties of brick clay mixtures

Savas Ozturk ^a, Mucahit Sutcu ^a, Ertugrul Endogmus ^b, Osman Gencel ^c

8- Recovery and Reuse of Waste Tetra Pak Packages by Using a Novel Treatment. (Martínez-Barrera, G., Ana, L., Martínez-López, M., del Coz-Díaz, J. J., Gencel, O., Ávila-Córdoba, L., ... & Martínez-López, A. (2019). Recovery and Reuse of Waste Tetra Pak Packages by Using a Novel Treatment. In Trends in Beverage Packaging (pp. 303-341). Academic Press.)

9- Recycle of ground granulated blast furnace slag and fly ash on eco-friendly brick production. (Surul, O., Bilir, T., Gholampour, A., Sutcu, M., Ozbakkaloglu, T., & Gencel, O. (2019). Recycle of ground granulated blast furnace slag and fly ash on eco-friendly brick production. European Journal of Environmental and Civil Engineering, 1-19.) <https://www.tandfonline.com/doi/full/10.1080/19648189.2020.1731714>

10- Macrofungi of Küre Mountains National Park in Bartın region of Turkey. (Özkazanç, N. K., & Keleş, Y. Y. (2019). Macrofungi of Küre Mountains National Park in Bartın region of Turkey. Türkiye Ormançılık Dergisi, 20(1), 8-14.)

11- Assessment of a solar energy powered regenerative organic Rankine cycle using compound parabolic involute concentrator (Ustaoglu, A., Okajima, J., Zhang, X. R., & Maruyama, S. (2019). Assessment of a solar energy powered regenerative organic Rankine cycle using compound parabolic involute concentrator. Energy Conversion and Management, 184, 661-670.)

All of our publications in 2019:

[Our Academic Publications on Environment and Sustainability \(2019\) - Greenmetrics eng - Bartın Üniversitesi. \(bartin.edu.tr\)](https://www.greenmetrics.org/en/greenmetrics-eng-bartin-universitesi/)

Publications in 2018:

1- Estimation of global wood pellet production as a renewable energy source by ARIMA method (Kurt, R., Imren, E., Cabuk, Y., & Karayilmazlar, S. (2018). Estimation of global wood pellet production as a renewable energy source by ARIMA method. *Fresenius Environmental Bulletin*, 27(7), 5147-5152.)

2- Energy Analysis of Solid Waste Fueled Cogenerative Organic Rankine Cycle for Different Working Fluids (USTAOĞLU, A., TORLAKLI, H., & ERDOĞMUŞ, E. (2018). Energy Analysis of Solid Waste Fueled Cogenerative Organic Rankine Cycle for Different Working Fluids. *International Journal of Natural and Engineering Sciences (IJNES)* E-ISSN: 2146-0086, 9(2), 27-30.)

3- Yeni bir Birleşik Parabolik İnvölüt Yoğunlaştırıcının Termal Üiformluğunda Kesme Etkisi (USTAOĞLU, A., OKAJIMA, J., ÖZBEY, U., ZHANG, X. R., & MARUYAMA, S. (2018). Yeni bir Birleşik Parabolik İnvölüt Yoğunlaştırıcının Termal Üiformluğunda Kesme Etkisi. *Mühendislik ve Teknoloji Bilimleri Dergisi*, 6(1), 49-53.)

4- Optimal Energy Recovery from Water Distribution Systems Using Smart Operation Scheduling (Telci, I., & Aral, M. (2018). Optimal Energy Recovery from Water Distribution Systems Using Smart Operation Scheduling. *Water*, 10(10), 1464.)

5- Global warming and climate change: a practical study on Bartın, Zonguldak and Düzce (Bolat, I., Kara, Ö., & Tok, E. (2018). Global warming and climate change: a practical study on Bartın, Zonguldak and Düzce. *Bartın Orman Fakültesi Dergisi*, 20(1), 116-127.)

6- Global warming awareness" sample of Bartın University students". (Durkaya, B., & Durkaya, A. (2018). Global warming awareness" sample of Bartın University students". *Bartın Orman Fakültesi Dergisi*, 20(1), 128-144.)

7- Advances in the Assessment of Climate Change Impact on the Forest Landscape (Öztürk, M., Palta, Ş., & Gökyer, E. (2018). Advances in the Assessment of Climate Change Impact on the Forest Landscape. *New Perspectives in Forest Science*, 167.)

8- Truncation effects in an evacuated compound parabolic and involute concentrator with experimental and analytical investigations (Ustaoglu, A., Okajima, J., Zhang, X. R., & Maruyama, S. (2018). Truncation effects in an evacuated compound parabolic and involute concentrator with experimental and analytical investigations. *Applied Thermal Engineering*, 138, 433-445.)

<https://doi.org/10.1016/j.applthermaleng.2018.04.062>



Applied Thermal Engineering

Volume 138, 25 June 2018, Pages 433-445



Research Paper

Truncation effects in an evacuated compound parabolic and involute concentrator with experimental and analytical investigations

Abid Ustaoglu ^a, Junnosuke Okajima ^b, Xin-Rong Zhang ^c, Shigenao Maruyama ^b

9- Anaerobic digestion of chicken manure: Mitigating process inhibition at high ammonia concentrations by selenium supplementation (Molaey, R., Bayrakdar, A., Sürmeli, R. Ö., & Çalli, B. (2018). Anaerobic digestion of chicken manure: Mitigating process inhibition at high ammonia concentrations by selenium supplementation. *Biomass and Bioenergy*, 108, 439-446.)

10- Analysis of land use/land cover changes following population movements and agricultural activities: a case study in northern Turkey (Şen, G., & Güngör, E. (2018). Analysis of land use/land cover changes following population movements and agricultural activities: a case study in northern Turkey. *Applied Ecology and Environmental Research*, 16(2), 2073-2088.)

All of our publications in 2018:

<https://greenmetricsen.bartın.edu.tr/haberler/our-academic-publications-on-environment-and-sustainability-2018.html>

Publications in 2017:

1- Syntheses, structures, dye adsorption properties and molecular dynamics simulations (Güneş Günay Sezer, Mürsel Arıcı, İlknur Erucar, Okan Zafer Yeşilel, Handan Uçun Özel, Betül Tuba Gemici, Hakan Erer, Zinc(II) and cadmium(II) coordination polymers containing phenylenediacetate and 4,4'-azobis(pyridine) ligands: Syntheses, structures, dye adsorption properties and molecular dynamics simulations, Journal of Solid State Chemistry, Volume 255, 2017, Pages 89-96,)

2- Land Use Suitability Classification for the Actual Agricultural Areas within the Bartın Stream Watershed of Turkey (Öztürk, M. (2017). Land Use Suitability Classification for the Actual Agricultural Areas within the Bartın Stream Watershed of Turkey. Periodicals of Engineering and Natural Sciences, 5(1).)

3- Change of temperature and precipitation in Kastamonu, Karabük and Bolu between 1980-1999 and 2000-2015 years. (Bolat, İ., Kara, Ö., & Tok, E. (2017). Change of temperature and precipitation in Kastamonu, Karabük and Bolu between 1980-1999 and 2000-2015 years. Bartın Orman Fakültesi Dergisi, 19(1), 276-289.)

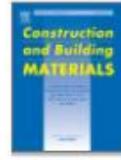
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Concretes with synthetic aggregates for sustainability

Ilker Tekin ^a, Muhammed Yasin Durgun ^b, Osman Gencel ^b, Turhan Bilir ^c, Witold Brostow ^d  , Haley E. Hagg Lobland ^d

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1- Bartın Irmağı Kirlilik Profiline Fiziksel Parametrelerle Belirlenmesi (ÖZEL, H. U., & GEMİCİ, B. T., Bartın Irmağı Kirlilik Profiline Fiziksel Parametrelerle Belirlenmesi, Mehmet Akif Ersoy Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 7(1): 52-58 (2016))

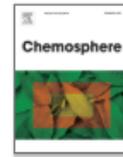
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3- Evaluation of background soil and air polychlorinated biphenyl (PCB) concentrations on a hill at the outskirts of a metropolitan city (S. Levent Kuzu, Arslan Saral, Gülten Güneş, Aykut Karadeniz, Evaluation of background soil and air polychlorinated biphenyl (PCB) concentrations on a hill at the outskirts of a metropolitan city, Chemosphere, Volume 154, 2016, Pages 79-89,)

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Chemosphere
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Evaluation of background soil and air polychlorinated biphenyl (PCB) concentrations on a hill at the outskirts of a metropolitan city

S. Levent Kuzu ^a, Arslan Saral ^a, Gülten Güneş ^b, Aykut Karadeniz ^a

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