

# Bilecik Şeyh Edebali University SUSTAINABILITY REPORT 2022













### **BSEU GreenMetric Team**

Assoc. Prof. Dr. Edip AVŞAR

Assoc. Prof. Dr. Adem SARIHAN



w3.bilecik.edu.tr/yesilkampus/

# Contents

- **1.** Setting and Infrastructure (SI)
- 2. Energy and Climate Change (EC)

## 3. Waste (WS)

- 3.1. Recycling Program for University Waste
- 3.2. Paper and Plastic Use Reduction Program on Campus
- 3.3. Electric-Electronic Waste and Batteries
- 3.4. Hazardous Waste Practices

# 4. Water (WR)

- 4.1. Water Conservation Program Application
- 4.2. Water Conservation Program Application
- 4.3. Use of Purified Water
- 5. Transportation (TR)
- 6. Education and Research (ED)
  - Startups

### 1. Setting and Infrastructure (SI)

Bilecik Şeyh Edebali University is located in the southeast of the Marmara Region; It is located in Bilecik Province, which is located on the cutting points of the Marmara, Black Sea, Central Anatolian Region and Aegean Regions. Center campus is located 6 km from Bilecik city center. Bilecik location and districts are shown on the map. University was established in 2007 and has modern and green campuses. Center campus has 46 ha area. There are also dormitory buildings on the central campus and it is a small city where students live 24 hours a day. It has 2 large parks. It also has waste water treatment plant.



The University Center Campus (BSEU) is located in a rural area with a high rate of forest cover. BSEU is established in the center disctrict of which located in the West site of Bilecik City. The center district has a total area of 841 km<sup>2</sup> and a total population of 78,029. This means a low population density of 93 inhabitants per km<sup>2</sup>.



4

The University Center Campus (BSEU) has Disabled parking areas for disabled people to park their car which located at the nearest space building and also Bilecik Seyh Edebali University has "Accessible universities certificate".



On the other hand, Activities are carried out by the Disabled Student Unit Coordinator at the University. Also there is a Kindergarten on University campus and Accessible hospital for public and students near the campus.



### 2. Energy and Climate Change (EC)

Since 2007, when our university was founded, roof lighting openings have been left in all buildings built with an innovative, environmentally friendly and sustainable architectural approach. Thus, maximum use of daylight is achieved and energy saving is achieved by using natural lighting to illuminate buildings.



Roof lighting openings in buildings on the BSEU campus



The issue of supplying the electricity used in our university from renewable sources is taken into consideration. For this purpose, the electricity used in our university is certified with the renewable energy resource guarantee system (YEK-G), which is the national renewable energy certificate system. This document shows that some of the electricity used in our university is obtained from renewable energy sources. Certificates for year of 2022 were given below.



More than 50% of the electricity consumed in BŞÜ is provided by Geotermal energy. BSEU attaches importance to the fact that a certain part of the electricity it purchases is produced from renewable resources. Also, researches and studies continue for the production of electricity from the solar power at BSEU.



No	Renewable Energy	Production (in kWh)
1	Jeotermal power	1684000
2	Solar panel	8604
	Total	1692604

### <u>1692604 / 3325165 (Electricity usage)\*100 = 50.90 %</u>

The buildings constructed in our university have energy identity certificate. According to the Energy Efficiency Law No. 5627 and the Energy Performance Regulation in Buildings issued accordingly; It is a document that contains information about the energy requirement and energy consumption classification of the building, the level of greenhouse gas emissions, insulation properties and the efficiency of heating and/or cooling systems at a minimum in order to ensure the effective and efficient use of energy and energy resources in buildings, prevention of energy waste and protection of the environment.

performansi 🖡					
Binanın		Belgenin		Binanın Görüntü	isü
Tipi:	Apartman				
İnşaat Ruhsat Tarihi:	15.8.2014	Veriliş Tarihi:	9.10.2021		
Tadilat Tarihi:		Geçer <b>il</b> ik Tarihi:	9.10.2031		
Toplam Alan:	9.918,29	Performans Sentfr	D	the second second second	the second second
Ada/Parsel/Pafta:	5/0	Emisyon Sanafa:	E		
UAVT Bina No:	726054604				
Adı: Adresi:	BILECIK ŞEYH EDEBALI PELİTÖZÜ MAH, FATİH BİLECİK	I SULTAN MEHMET BU	LVARI SOK, NO: 27 /4		AN IN THE
ENERJİ PERFORMAN Yüksek	VSI ORAN	SERA GAZI EN	ISYONU 30,85 Ig third. COath ORAN	regid YENILENEBIU	İR ENERJİ KULLAN <b>I</b> M ORAN <b>I</b>
B 40-79 C 80-99 D 100-119 E 120-139 F 140-174 G 175 Digit	115 YILLIK ENER Birincil (swih/yi)	B 40-79 C 80-99 D 100-11 E 120-13 F 140-17 G 175	19 19 125 14 YENILENEBİLİR E Birindi (XWMyrit)	NERJÍ/KOJEN. ENERJÍ Birim Alan Başına (Witvimi yılı)	SINIFI
B 40-79 C 80-99 D 100 119 E 120-139 F 140-174 G 175 Digit SISTEMLER	YILLIK ENER Birincil (LWh/y)() 1.178.492,63	B 40-79 C 80-99 D 100-1 E 120-13 F 140-17 G 175	19 19 125 14 YENILENEBILIR E Birindi (WWhyt) 0,00	NERJ/KOJEN. ENERJÍ	SINIFI
B 40-79 C 80-99 D 100-119 E 120-139 F 140-174 G 175	YILIK ENER           Birincil (LWKr/y)()           1.178.492,63           753.041,71           20.0120	B 40-79 C 80-99 D 100-1 E 120-33 F 140-17 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125	NERJ/KOJEN. ENERJÍ	SINIFI
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175	YILLIK ENER Birinel (J.Wh/y) 1.178.492,63 753.041,71 284.417,39 2557.48	B 40-79 C 80-99 D 100-1 E 120-1 F 140-17 G 175	19 19 125 125 125 125 125 125 125 125 125 125	Birm Alan Başına (xwivniya)         2           0,00         0,00           0,00         0,00           0,00         0,00	SINIFI D C F
B         40-79           C         80-99           D         100           E         120-139           F         140-174           G         175	YILLIK ENER           Birinel (swhyu)           1.178.492,63           753.041,71           284.417,39           7,557,48           0.00	B 40-79 C 80-99 D 100-1 E 120-11 F 140-17 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125	Birm Alan Başına (xwivniyi)         Xim Alan Başına (xwivniyi)           0,00         0,00           0,00         0,00           0,00         0,00	
B         40-79           C         80-99           D         100           E         120-139           F         140-174           G         175	YILLIK ENER           Birincil (SWilvy)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04	B 40-79 C 80-99 D 100-1 E 120-11 F 140-17 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125	Birm Alan Başına (xwivnityi)         2           0,00         0,00           0,00         0,00           0,00         0,00	SINIFI D C F E D G
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175	Y LL K ENER           Birincii (sWhy)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00	B 40-79 C 80-99 D 100-1 E 120-11 F 140-17 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125		SINIFI D C F E G G
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175	Y LL K ENER           Birinci (sWhy)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00	B 40-79 C 80-99 D 100-1 E 120-1 F 140-17 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125		SINIFI D C F E G G
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175	Y LL K ENER           Birincii (sWhy)0           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00	B 40-79 C 80-99 D 100-1 E 120-1 F 140-11 G 175	19 19 125 14 125 125 125 125 125 125 125 125 125 125		SINIFI D C F E D G
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175           Dage         0000           SISTEMLER         1000           Istema         1000           Sciputna         1000           Aydenlatma         1000           Kojenarasyon         1000           Fotovoltaik         1000	Y LL K ENER           Brinel (MWhyt)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00	B 40 - 79 C 80 - 99 D 100 - 1 E 120 - 1: F 140 - 1: G 175	19 19 125 125 125 125 125 125 125 125	NRERJ//KOJEN. ENERJÍ Birim Alan Basina (Writhritight) 0,00 0,00 0,00 0,00 0,00 0,00 0,00	SINIFI D C F E D G Kare Kod
B         40-79           C         80-99           D         100-119           E         120-139           F         140-174           G         175           Ogd#         000           SISTEMLER           Ibitma           Schutna           Aydenlatma           Kojenarasyon           Fotovoltaik           Belgenin           Numarast:	Y LL K ENER           Birinei (sWhyn)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00	B 40-79 C 80-99 D 100-1 E 120-1 F 140-1 G 175	19 19 125 125 125 125 125 125 125 125	NRERJ//KOJEN. ENERJÍ Birim Alan Basina (Writhrityit) 0,00 0,00 0,00 0,00 0,00 0,00	SINIFI D C F E D G Kare Kod
B 40-79     B 40-79     C 80-99     D 100-119     E 120-139     F 140-174     G 175     G 1	Y LL K ENER           Birinei (sWhyn)           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00           M1211BDC79E           9.10.2021	B 40-79 C 80-99 D 100-1 E 120-1 F 140-1 G 175 Vilank CHTOKETIMLERI Bilin Alan Basina CHMARA 118,82 75,92 28,68 0,76 0,00 13,46 0,000 Belge Dúz 08 Adi Soyada Firmast:	19         125           12         125	Birm Alan Başına (Wrytestyst)           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00	SINIFI D C F E D G Kare Kod
B 40-79     B 40-79     C 80-99     D 100-119     E 120-139     F 140-174     G 175     G 175     G 175     SISTEMLER  Solution Solution Solution Solution Avdenlatma Kojenarasyon Fotovoltaik  Belgenin Numarast: Veriliş Tarihi: Son Geçerlilik Tarih	Y LLIK ENER           Birinel (MM/y)0           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00           M1211BDC79E           9.10.2021           Ni:           9.10.2021	B 40-79 C 80-99 D 100-1 E 120-1 F 140-1 Vitask CHTOKETIMLERI Bin Alan Bagina (WYKork'st) 116,82 75,92 28,68 0,76 0,00 13,46 0,00 Belge Ddz 08 Adi Soyadi Firmast:	19         125           12         125		SINIFI D C F E D G Kare Kod
B 40-79     B 40-79     C 80-99     D 100-119     E 120-139     F 140-174     G 175     G 175     G 175     Sistemue  stama Sthi Sicak Su Sogutma Havalandirma Aydehatma Aydehatma Kojenarasyon Fotovoltaik  Belgenin Numarast: Veriliş Tarihi: Son Geçerfilik Tarili Intal Edilana EKR N	YILLIK ENER           Birinel (JWWhy)0           1.178.492,63           753.041,71           284.417,39           7.557,48           0,00           133.476,04           0,00           M1211BDC79E           9.10.2021           Ni: 9.10.2031           N12110Dec <sup>+</sup>	B 40-79 C 80-99 D 100-1 E 120-1 F 140-1 Vitask C 175 Vitask C 75 VITAS C 175 VITAS		Bidmin Alan Bagma           Bidmin Alan Bagma           (vww.mtydt)           0,00           0,00           0,00           0,00           0,00           0,00           0,00           0,00           2           7 AşiMACILIK AT SANAYİ VE TİCARET	SINIFI D C F E D G Kare Kod

The total electricity usage of Bilecik Seyh Edebali University Campus in 2021, 2020 and 2019 is 3,180,592,95 kWh, 2,893,120.00 kWh and 4,245,169.80 kWh respectively. On the central campus, electricity is used for lighting, cooling, heating and laboratory appliances. The monthly energy consumption of BSEU for the last 3 years is given in the graph given below



### 3. Waste

### 3.1. Recycling Program for University Waste

In Bilecik Şeyh Edebali University, wastes are collected separately according to their types. University staff and students were given the necessary training and then a zero waste system was established[a]. All buildings have bins for separate collection of glass, metal, paper, plastic, organic waste and other (non-recyclable) waste [b]. The collected wastes are taken and recycled by the Biosun Company with which the university has a contract. In addition, separate boxes are available for the collection of fluorescent lamps, electrical and electronic waste, and waste batteries [c]. These wastes are taken and evaluated by the Exitcom Company and TAP Association with which the university has a contract. Medical and hazardous wastes from laboratories are collected separately [d]. Medical wastes sterilized and disposed of by Biosun [e]. Hazardous wastes are disposed by İzaydaş company. Waste oils, oil filters and cooling liquids from the generators available at the university are also collected separately and disposed of [f]. [g] In our university, the collection of waste vegetable oils started at a pilot level.



# <complex-block><complex-block>

### **3.2.** Program to Reduce the Use of Paper and Plastic on Campus

In our campus, all administrative and academic correspondence and student applications (course registration, course materials, distance education, internship procedures, etc.) are made electronically in order to reduce waste. Our university has an Electronic Document Management System (EBYS) that enables official documents to be processed online. In scientific project studies, the project process management system, which enables the processing of official documents, is used. Student registrations and course procedures are also done online using the student information system (OBS) automation. In this way, both stationery costs and waste generation are saved, and correspondence and transactions are archived in a healthy way.

Metal forks, metal spoons and metal knives are used in cafeterias to reduce disposable plastic consumption. Tea and coffee are served to the personnel in the offices with glass cups.

### **3.3. Organic Waste Treatment**

There are waste bins for the collection of organic waste in all our buildings in our university (a). The collected wastes are given to Bilecik Municipalities Union. Bilecik Municipalities Union signed a 29-year agreement with Biosun Company within the scope of domestic solid waste management. Bilecik Integrated Solid Waste Facility, owned by the company, has the capacity to process 120 thousand tons of domestic, agricultural and industrial waste and produce 15 thousand tons of compost annually from these wastes (b). The compost from this facility is the

most important raw material of the organomineral fertilizer produced in Pazaryeri Organomineral Fertilizer Production Facility (c-d).



A project is being prepared to be given to the Ministry of Environment and Urbanization in order to produce compost by providing a compost machine for solid waste management in our campus. If the project is approved by the ministry, organic wastes and park and garden wastes originating from our campus will be evaluated within our own campus.

- [1] https://bilecik.csb.gov.tr/biosun-bilecik-entegre-kati-atik-tesisine-teknik-gezi.-etkinlik
- [2] http://www.hexafermgubre.com/index.asp?sec=1&menuid=191

[3] https://www.youtube.com/watch?v=270GbADonmM

### 3.4. Inorganic Waste Treatment

Our university works with TAP Association, which is authorized by the Ministry of Environment and Urbanization, for the recycling of waste batteries. Waste batteries are collected in all buildings throughout the university and sent to the TAP association for recycling (a-b).

An agreement has been made with the AGID Association for the recycling of waste fluorescent, light bulb and electrical and electronic wastes at our university. Electrical and electronic wastes, fluorescent lamps and light bulbs are collected in all buildings throughout the university and sent to AGID for recycling (c-d).



### 3.5. Toxic Waste Treatment

a. Waste battery collection	b. waste battery sent to TAP		
c. waste fluorescent, light bulb, electrical and electronic waste boxes	d. sending waste fluorescents to recycling		
e. storage of waste mineral oils	f. sending waste mineral oils to recycling		
g. collection of medical and hazardous waste	h. sterilization of medical waste		
Toxic Waste 1	Freatment		

### 3.6. Sewage Disposal



All of the wastewater resulting from the activities carried out in the university central campus is collected through the sewer system. All of the wastewater is treated at the biological wastewater treatment plant of our university. The treatment plant consists of 9 package units and each one is 100 m3/day treatment capacity. The treated water, which meets the limit values specified in the Turkish Water Pollution Control Regulation, is discharged to the receiving environment. Rain water is collected by separate canal lines in our center campus. Project studies are continuing for the collection and use of rain water. In our other campuses, the wastewater generated is given to the municipal sewer system with the infrastructure.

### 4. Water

### 4.1. Water Conservation Program Implementation



In the infrastructure of our university, rain water and wastewater infrastructure are designed separately. Wastewater is collected and treated in our university's biological treatment plant with a capacity of 900 m<sup>3</sup>/day. Rain water is collected from the campus by taking it into a separate channel. Treated water and collected rain water are combined in the same channel. Afterwards, it is fed into the stream passing through Değirmendere locality under Gülümbe village at a distance of 2.3 km.

Rainwater on the roof of our university's waste storage area is collected in a  $1m^3$  tank placed here. The rain water collected in the tank is used to meet the need for surface washing. A  $1 m^3$  tank was placed. The tank storage area is filled with rain water coming from the roof and is used for surface washing.

Studies on the more effective use of treated water and rain water are ongoing, and these issues

# 4.2. Water Efficient Appliances Usage



<sup>3</sup> The amount of water flowing in 9 seconds (approximately 1100 mL) without the saving device	<sup>4</sup> The amount of water flowing in 9 seconds with the saving device (approximately 540 mL)
Example of Water E	Efficient Appliances Usage

<sup>1</sup>In order to reduce water use in our university, the application of waterless urinals has started to be tested on a pilot scale. For this purpose, 2 waterless urinals were purchased and installed. Waterless urinal systems contain membrane filters. Thus, the odoriferous components in the urine are filtered out. Since there is no odor formation, there is no need for cleaning after urination.

It has been determined that an average urinal is used 150 times a day.

A urinal with a sensor or a manual siphon system consumes 3 liters of water in each use, according to Turkish plumbing regulations.

In this situation:

1 urinal consumes: 150 uses x 3 liters = 450 liters of water in 1 day.

1 urinal consumes in 1 year: 450 liters x 365 days = 164250 liters of water (ie 164.25 m<sup>3</sup>) [1].

<sup>2</sup> In order to reduce water use, photocell faucet application has been started on a pilot scale.
For this purpose, 2 photocell faucets were purchased and mounted and tested on a pilot scale.
It is planned to replace the existing faucets with photocell faucets as they deteriorate.
<sup>3,4</sup> Another application for water saving is the application of saving apparatus to the taps. In the experiments, it was determined that the flow rate of the water flowing from the tap was reduced by 50% without pressure loss by using this apparatus. These apparatus were installed fully in 2 buildings all toilets.

[1] <u>https://www.susuzpisuvar.com.tr/sayfa-detay/Susuz-</u> <u>Pisuvar.html?gclid=Cj0KCQjw5JSLBhCxARIsAHgO2Sctc5eQP5PINthhpdDEa83aGMGvTkCz31h8B</u> <u>TdMT5JsMgP-q-X3qP8aAjAwEALw\_wcB</u>

### 4.4. Consumption of treated water



Wastewater from the activities in our university is treated in a biological treatment plant with a capacity of 900 m<sup>3</sup>/day. Currently, there is no recovery of treated water. However, studies are continuing for the use of treated water as water for park and garden irrigation, vehicle washing, surface washing, and toilet flushing.

### 4.5. Water pollution control in campus area

As a policy at our university, all wastewater is collected and treated separately. In this context, the necessary infrastructure is available. As a matter of fact, the treatment of wastewater in Turkey is a legal obligation and an obligation arising from the laws of the country.

According to the Water Pollution and Control Regulation (Official Gazette Date and Number: 31.12.2014; 25687) issued by the Ministry of Environment, Urbanization and Climate Change, which is valid in our country, our university is evaluated according to the criteria of Table 21.2-Sector: Domestic Wastewater.



In the infrastructure of our university, rain water and wastewater infrastructure were designed separately. All of the wastewater originated form our campus is collected and treated in our university's biological treatment plant with a capacity of 900 m<sup>3</sup>/day. Rain water is collected from the campus by taking it into a separate channel. Treated water and collected rain water are combined in the same channel after treatment. Afterwards, it is fed into the stream passing through Değirmendere locality under Gülümbe village at a distance of 2.3 km.

Wastewater samples are taken from the facility by accredited measurement and analysis laboratories in the process deemed appropriate by the Ministry within the scope of legal legislation. In the sample taken, pH, TSS COD and BOD parameters are analyzed and the results of the analysis are reported to the Ministry.

### 5. Transportation (TR)

Since the central campus area is flat and small, the distance between the campus entrance and the farthest building is 670.35 meters. This is walking distance. Therefore, the campus is not suitable for using the shuttle.

Campus enter – Rectorate: 637.8 meter Campus enter – Library: 606.88 meter Campus enter – E and F Blocks: 650.44 meter Campus enter – A and B Blocks: 670.35 meter Campus enter – C and D Blocks: 538.24 meter Campus enter – H Blocks: 545.02 meter Campus enter – Vocational School: 337.35 meter Campus enter – Health Service: 330.13 meter



Walking distances of the campus (Bilecik Seyh Edebali University, Turkey)





<sup>1</sup>Our university areas are bicycle and pedestrian friendly. Sidewalks and bike paths have also been established for pedestrians and cyclists. The speed limit within the campus is 30 km. Pedestrians have the right of way within the campus.

<sup>2</sup>There are a total of 100 bicycles given by the Ministry of Health in our university. These bikes are kept in the gym of our university. Bicycles are available for free use of students and staff on the central campus. Cyclists can take the bikes from the gym by providing the desired information and use them all day long. There is a lock system on the bicycles and students can park their bicycles in the parking areas within the campus. The bicycle, which is out of use, is taken to the gym by the cyclist and left.

<sup>3</sup>There are dual AC charging points on the campus of our university where electric vehicles can be charged. Within the scope of the agreement with ZES Energy solutions company, 2 electric Renault ZOE vehicles will be brought to the campus and made available to staff and students.

<sup>4</sup>1 Toyota CHR Hybrid vehicle was donated by TOYOTA Motor Turkey A.Ş to reduce emissions within the scope of support for green campus studies and to support the education and training activities of students in automotive and electric hybrid vehicle technologies departments.

Free to rent bicycle on campus. Not taking public transportation vehicles to campus in order to reduce vehicles on campus. Since the campus is within walking distance, it is not suitable for shuttle use so there aren't the shuttle services on our campus. In order to reduce the number of vehicles on the campus, free bicycles were provided to students instead of student vehicles, public transportation and shuttle services.

No.	Vehicle	Total Number
1	Car managed by the university	18
2	Cars entering the university	800
3	Motorcycles entering the university	20
	Total	838

5.4 = 838 / 1245 (population) = 0.68



Example of Ratio of Parking Area to Total Campus Area (Bilecik Seyh Edebali University, Bilecik)

Total main campus area: 468025 m<sup>2</sup> Total parking area = 18000 m<sup>2</sup> Ratio = 3.84%

This year, 1 parking area (pointed with red block in the Picture and the area is approximately 776 m<sup>2</sup>) was removed and a student cafeteria was built instead. Thus, the parking space is reduced.





- Limiting parking zone for students as done new campus enter gate. After this park is full, student vehicles are taken into the campus.
- Not taking public transportation vehicles to campus in order to reduce vehicles on campus
- This year, 1 parking area (pointed with red block in the Picture and the area is approximately 776 m<sup>2</sup>) was removed and a student cafeteria was built instead. Thus, the parking space is reduced.



Example of pedestrian path (Bilecik Seyh Edebali University, Turkey)

- Separator between road for vehicle and pedestrian path.
- Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
- Street lamp for pedestrian in night. Lishan College has LED lamps, which control the solar street lights automatically through the intensity of light.

### 6. Education (ED)

In BSEU's Curriculum Refresh programme which aims to embed sustainability into all course and module content offered by the University. Total number of courses with sustainability embedded for courses running in 2020/2021: about 5000.



2018	20166
2019	21998
2020	21509
2021	21395
2022	21395

Total number of courses offered in 2022 = 21395 courses (not modules)

A total of 36 projects were supported in our university in 2021. The total support given by the university for these projects is US\$ 108108. A total of 105 projects were supported in our university in 2020. The total support given by the university for these projects is US\$ 194030. In 2019, US\$ 369593 support was given to the projects. Since 2022 continues, no reporting has been made yet. For this reason, the data for 2022 will be included later.

Total research fund in 2019 = 369593 US Dollars Total research fund in 2020 = 194030 US Dollars Total research fund in 2021 = 108108 US Dollars

The averaged annum las t3 years of research fund = 223910 US Dollars

More over research funding in the Annual report 2021: http://w3.bilecik.edu.tr/strateji/2022/03/16/2021-yili-idare-faaliyet-raporu-yayinlanmistir/

	O Anasayfa 🗰 ANA SAYFA 🗧 Anasayfa								
ANA SAYFA ~	Otomasvan Ciric Bilgilari								
Anasavfa	<u>Otomasyon Giriş Bilgileri;</u>					Nonemli Duyurular –			
Habbyra I.	1. Giriş türü kısmı "Yürütücü" seçilecek,					SMA Proje Çağrıları			
	2. Kullanıcı adı	kısmına	@bilecik.edu.t	r uzantılı mail a	dresi varsa yazıla	acak, yoksa Bilg	i İşlem Daire Baş	kanlığından temin	2020 Klinik Araştırma Proje Çağrısı
	edilecektir.								→ Açık Proje Çağrıları 2021 (AB, Erasmust ve Diğer Programlar)
	3. Şifre olarak	mail nesa	bi şifrenizi girer	ek sisteme giriş	yapabilirsiniz.				
	Not : Hesaba il yapabilirsiniz.	k giriş ya Hesaba ill	otiginizda Ana Sa k girişinizde özge	ayra açılacaktır. : eçmiş ve kişisel l	soi ust kisimdan pilgileriniz istenn	Yurütücü tıklanı nektedir, bu bilg	arak işlemlerinizi ileri online olarak	bu sayfadan düzenleyebilirsiniz	Tüm Duyurular
	veya özgeçmiş	kısmında	dosya olarak se	çilerek bilgisaya	rınızdan .doc vey	a .pdf uzantılı d	osyayı da ekleyet	oilirsiniz. Özgeçmiş	
	kısmı bir defa doldurulunca bundan sonraki işlemlerinizde bu bilgiler tekrar istenmeyecektir. 📢 Satınalma Duyuruları 😑 🗙								
	2021 Yılı için Bilecik Şeyh Edebali Üniversitesi BAP Birimi tarafından kabul edilen proje türleri ve üst limitleri aşağıda yer kav						Kayıt yok		
	almaktadır.								
	BİLİMSEL ARAŞTIRMA PROJELERİ KOORDİNATÖRLÜĞÜ					Tüm Duyurular			
	AYRICALIKLI PROJE BÜTÇE TABLOSU								
		2020			Ayrıcalı	dı Bütçe Üst Lim	itleri (TL)		📢 Genel Duyurular 🛛 🗕
	Proje Türü	Yılı Proje Bütçesi Üst Limiti (TL)	2021 Yılı Proje Bütçesi Üst Limiti (TL)	Hali Hazırda TÜBİTAK 1001 Projesi Olanlar (%40)	Hali Hazırda Avrupa Birliği Projesi Olanlar (%30)	Hali Hazırda BEBKA Projesi Olanlar (%20)	En Son Projesinden veya Proje Dışı Çalışmalarından Q1 Makalesi	En Son Projesinden veya Proje Dışı Çalışmalarından Q2 Makalesi	ARDEB 1001 Programı Çevrim İçi Proje Yazma Eğitimi Video Kayıtları ve Sunum Dokümanları
		()					Olanlar (%15)	Olanlar (%10)	Tüm Duyurular
	Genel Amaçlı Proje         15.000         20.000         28.000         26.000         24.000         23.000         22.000						N LINULED		
	Teşvikli Destek/Tematik	30.000	40.000	56.000	52.000	48.000	46.000	44.000	

Total research fund dedicated to sustainability research in 2020 = 18330 US Dollars Total research fund dedicated to sustainability research in 2021 = 33917 US Dollars Total research fund dedicated to sustainability research in 2022 = 35315 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 29187 US Dolars



Distrubiton of research Project on the basis of units (Bilecik Seyh Edebali University, Turkey) Example of events scholarly publications on sustainability in the academic year 2020-2022.

A total average per annum over the last 3 years of 116 publications

≡ Google Akademik	"bilecik seyh edebali university" & green	
Makaleler	Yaklaşık 350 sonuç bulundu ( <b>0,06</b> sn)	
Tüm zamanlar	Sustainability of University Campuses; Bilecik Seyh Edebali University	[PDF] dergipark.org.tr
2022 yılından beri 2021 yılından beri	H KAHVECI - Avrupa Bilim ve Teknoloji Dergisi - dergipark.org.tr	
2018 vilindan beri	Within the scope of this study, ISCN, Green Metric criteria and sustainability criteria were	
Özel aralık	obtained from many studies (Table 1). The method flow chart of the study is summarized in	
2020 - 2022	☆ Kaydet 99 Alıntı yap İlgili makaleler 4 sürümün hepsi ≫	
2020 2022	Rosphin-Extract-Assisted Green Synthesis and Characterization of Reduced	
Ara	Graphene Oxide	[i bi] wiey.com
	E Mindivan, M Göktaş - ChemistrySelect, 2020 - Wiley Online Library	
Alakaya göre sırala	al preferred palm oil leaves10 as a green reducing agent. In addition green synthesis of	
Tarihe göre sırala	metal nanoparticles and their nanocomposites. In the present study, rosehip extract as the green	
Horbongi bir dil	💢 Kayuet 🖤 Ainiti yapi Ainitilainina sayisi. 5 ligiirinakalelel	
Türkce savfalarda ara	נאדאן Some Physico-Chemical and Mechanical Properties and Workability of	[HTML] dergipark.org.tr
	Bilecik Şeyh Edebali University Campus Soils	
Tüm türler	Z DEMİR, MUT Zeki, MUT Hanife Anadolu Tarım Bilimleri, 2021 - dergipark.org.tr	
Makaleleri incele	Soil samples taken from 0 - 20 cm soil profile of 20 different points in <b>Bilecik Şeyh Edebali</b>	
	A Kavdet 500 Alinti van Ünili makaleler 5 sürümün hensi 20	
patentleri içer		
✓ alıntıları	[PDF] Determining the forage yield, quality and nutritional element contents of	[PDF] academia.edu
M Livan olustur	quinoa cultivars and correlation analysis on these parameters	
- Oyun oluştur	E Kaya, SK Aydemir - Pakistan Journal of Agricultural Sciences, 2020 - academia.edu	
	seeds, while it may also be grown for its green leaves. This study aimed to determine the seed	
	at Bliecik şeyn Edeball University. As a result of the study, the highest green lear yield, dry	

Example of events related to environment and sustainability hosted or organized by the University in the academic year 2020-2022.

Total number of sustainability/environment related events in:

2020: 1

2021: 6

2022: 14

A total average per annum over the last 3 years of **7 events** (e.g. conferences, workshops, awareness raising, practical training, etc.).



Image: Construction of the second	Construction     Construction
Europass Access to European Opportunities Event 2022	Turkology Conferences - Journalism in 20th
	Century Turkey-2022
<image/> <section-header></section-header>	<section-header></section-header>
History and Culture Talks – 118-2022	Entrepreneurship summit-2022
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<image/>
R&D Projects Writing Training 2022	Covid-19 with Yesterday, Today and Tomorrow 2022

<image/> <image/>	<image/> <image/>
Women's cooperatives and associations in rural development of our province (2021)	The role of chambers of agriculture in the development of agriculture and animal husbandry in our province (2021)
	<page-header><page-header><page-header><section-header><section-header><section-header><text><section-header><section-header><section-header></section-header></section-header></section-header></text></section-header></section-header></section-header></page-header></page-header></page-header>
World environment day event. environment and zero waste (2021)	Zero waste information presentation (2021)





There are 28 active student clubs in our university. Some of the students who started the university this semester are continuing to establish clubs. Some of the events organized/contributed by these clubs are given above.

Contract of the second se		
"I graduated, after?" Activity 2022		
Ni sonij ogrenci sergisi sergisi urden - 20 Eyul acto		
Faculty of fine arts and design year-end student exhibition (2019)		

	Cardena Araa Stranna Bit Siit
Turkish voice competition among youth (2021)	Youth poetry competition
<image/> <image/> <image/> <image/> <image/>	
Mechanical engineering project presentation (2019)	Youth drama competition (2021)
Engineering, entrepreneurship and business life (2019)	Lean manufacturing 7 essential wastes and 5s
Image: Source of the second secon	<page-header><page-header><page-header><section-header><image/><image/><section-header><section-header><image/></section-header></section-header></section-header></page-header></page-header></page-header>
Port catheter care in children (2021)	Zero waste information presentation (2021)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

file:///Users/apple/Desktop/Yap%C4%B1lacak%20I%CC%87s%CC%A7ler/Yes%CC%A7il%20Kam pu%CC%88s/Kriter%20dosyalar%C4%B1/Aktif-Kulu%CC%88pler-2019-web.pdf

-http://www.bilecik.edu.tr/AnaSayfa/Icerik/8411
-http://www.bilecik.edu.tr/AnaSayfa/Icerik/8418
-http://www.bilecik.edu.tr/AnaSayfa/Icerik/8417
Example of Total number cultural activities on campus organized by the University : more than 3 events (27 events)

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

More information can be found from web page : <u>https://www.bilecik.edu.tr/main/arama/2</u>



	<image/> <text><text></text></text>
Military History Student Symposium on the 100th Anniversary of the Great Offensive-2022	Career Day Event 2022

In our university several lessons (English, history, Turkish, etc.) are carried out using Online Teaching Methods. Students continued their education by participating in live lessons. In addition, informative meetings were held on the measurement and evaluation of the courses by effectively conducting the courses on the same platform. Online meetings, symposiums and events were realized via univsertiy meeting platform, ZOOM and TIMS webinars. Some of these tutorials have been shared on YOUTUBE.





Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

-http://w3.bilecik.edu.tr/ue/
-http://toplanti.bilecik.edu.tr/
-https://www.youtube.com/c/SigortaStrateji

# ✤ Startups

### Sustainability-related startups

No.				Informatio	n								
1	Startup name: R	ecoverv	of treatr	nent plant water									
	Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WR												
	URL:				-,, .	, ,	-						
	Description:												
	Start-up Name:	Pocovory of	troatmont pla	ant water	Posnonsible:								
	Problem Detection:	Recovery of	lieatinent pie		Leader:	Asos Dr. Edin 4	lvsar						
	A total of 250 m <sup>3</sup> /day of t	reated water i	s discharged	Toom Mombors:	Eng. Earuk Ünli	ά Acist Dr Α	dom	Sarihan					
	treatment plant which w	as established	in 2019 It air	ually from our wastewater ms to save domestic water by	Asos Dr Senav B	albay	u, ASIST. DI. A	uem	Salinan,				
	using the discharge water	for irrigation	ourposes with	nin the campus.	Alsos. Dr. şendy bi								
	Project Purpose and Scope	a:			Goal and Benefits								
ĺ	It is aimed to reduce the o	cost of well wa	ter by using t	he discharged water for	1- Discharge wate	r will be recovere	d at a rate of	5%.					
ĺ	irrigation. The scope of th	e project is to	treat 5% of th	ne daily discharged water	2- Water footprint	will be reduced.							
	and use it for irrigation pu	irposes.		, 3	3- The cost of well	water will be red	duced by 1%.						
					Cost:	calculating							
					Earning:	calculating							
	Activity Steps:				Task/Activity	Start	End		Actual				
	1- Expanding and updating	g analysis para	meters		Planning	1.9.21	1.	6.22	10 Months				
	2- Determining and supply	ying the equipr	nent		Preparation	1.1.22	1.	6.22	6 Months				
	3-Integration of the filtrat	ion system int	o the treatme	ent system	<b>Pilot Application</b>	1.6.22	1.	6.23	12 Months				
	4- Determination of usabi	lity by examini	ng the quality	y of the filtered water	Spread	1.6.23	1.	6.24	12 Months				
	5- Use of water in line wi	th the determi	ned purposes										
	Photos:												
2	Startup name: C Startup area in U URL: Description:	collection Ul Green	and eva <b>metric q</b>	luation of rainwate uestionnaire (SI, E	er C, WS, WR, 1	<b>FR, ED)</b> : WF	3						

Start un Nama:	Collection an	d ovaluation	of rainwator	Pernensible			
Start-up Name:	Collection an	d evaluation	of rainwater	Responsible:	Assa Da Estar (	\	
Problem Detection:				Leader:	Asos. Dr. Edip A	Avşar	<b>C</b> 1
The water requirement in	our campus is	met from gro	oundwater. Problems that	Team Members:	Eng. Faruk Unit	u, Asist. Dr. Adem	Sarinan,
may occur by using rain w	ater will be pro	evented in ca	se the water table drops	Asos. Dr. Şenay Ba	прау		
due to excessive withdraw	val of groundw	ater.					
Project Purpose and Scope	e:			Goal and Benefits:			
It is aimed to reduce the a	amount of grou	ndwater use	by harvesting rainwater.	1- Using 100% of r	ain water		
Determining the rain wate	er potential, de	termining the	e water quality and	2- Contributing to t	the solution of wa	ater scarcity	
determining the irrigation	water usage r	ate are the so	cope of the project.	3- Water footprint	reduction	1 1000	
				4- Reducing the an	nount of groundw	ater use by 10%	
				Cost:	calculating		
				Earning:	calculating		
Activity Steps:				Task/Activity	Start	End	Actual
1- Storing rainwater by sin	mple filtration			Planning	1.12.21	1.3.22	4 Months
2- Determination of the q	uality of rain w	ater		Preparation	1.1.22	1.3.22	3 Months
<ol> <li>Determination of the a</li> </ol>	mount of colle	ction in rain v	vater	Pilot Application	1.3.22	1.6.23	15 Month
4- Ensuring the use of rair	n water as irrig	ation water		Spread	1.9.23	1.6.24	21 Month
Photos:							
Photos:							
Photos:							
Photos:	<u>'</u>			77			
Photos:							
Photos:							
Photos:							
Photos:				10			
Photos:							
Photos:							
Photos:							
Photos:							
Photos:							
Photos:							
Photos:							
Photos:							
Photos: Startup name: Ir	nprovem	ent of pe	et shelters on car	npus			

### Description:

URL:

Start-up Name:	mprovemen	t of pet shelt	ers on campus	Responsible:			
Problem Detection:				Leader:	Asist. Dr. Adem	Sarıhan	
Our campus is a natural hab	itat for cats,	dogs, squirre	els and various bird	Team Members:	Technician Mer	al Yurt	
species. It has been determi	ned that the	living and fe	eding areas of these	Asos. Dr. Şenay B	albay, Asos. Dr. Ec	dip Avşar	
animals in the campus are ir	nadequate ai	nd not in acco	ordance with the standards				
Project Purpose and Scope:				Goal and Benefits	:		
It is aimed to make the hous	ing and feed	ling environm	nents that are not suitable	1- Maintaining the	health of the ani	mal population	
for the living standards of th	e animals ac	dequate and	optimum. The scope of	2- Raising awaren	ess and raising av	vareness of peopl	e
the project is to determine s	uitable feed	ing points, to	create and control				
feeding environments.				Cost:	calculating		
				Earning:	calculating		
Activity Steps:				Task/Activity	Start	End	Actual
1- Determination of nutrition	n points and	determinatio	on of needs	Planning	1.11.21	1.2.22	4 Month
2- Procurement of necessary	/ materials			Preparation	1.2.22	1.7.22	6 Month
3- Establishing feeding place	es by separat	ing environm	ents according to	<b>Pilot Application</b>	1.8.22	1.11.22	4 Month
animal species				Spread	1.12.22	1.7.23	19 Mont
4- Health control and vaccina	ations						

4	Startup name: I	ncreasin	g the use	of energy efficie	ent LED lamps			
	Startup area in	UI Green	metric q	uestionnaire (SI	, EC, WS, WR,	TR, ED): E	С	
	URL:							
	Description:							
	START-UP-04							
	Start-up Name:	Increasing t	he use of ene	rgy efficient LED lamps	Responsible:			
	Problem Detection:				Leader:	Eng. Harun Çına	ar	
	It is to reduce energy cor	sumption by re	eplacing the li	ghting in existing buildings	Team Members:	Eng. Özgür Çev	ik, Asist. Dr. Aden	n Sarıhan
	in our university with LED	systems that	consume less	energy.	Asos. Dr. Şenay B	albay, Asos. Dr. E	dip Avşar	
	Project Purpose and Scor	e:			Goal and Benefits	:		
	The aim of the project is	to reduce the	electricity con	sumption of our university	1- Starting from t	ne pilot buildings	and applying it to	other buildings
	In this context, the rector	ate and library	v buildings we	re selected for the pilot	2-Reducing electri	city consumption	on campus	
	application. The scope of	the project co	nsists of maki	ng the lighting more	3-Longer life of th	e lighting system	1	
	ergonomic and reducing	the cost of ligh	iting by conve	ting the lighting system	4- Reducing the ai	nount of waste li	ghting	
		5.			Farning:	Saving 162500	W/vear aprox 50	000 \$
	Activity Steps:				Task/Activity	Start	End	Actual
	1-Making measurements	in buildings			Planning	1.8.21	1.2.22	6 Months
	2-Preparation of the busi	ness plan			Preparation	1.2.22	1.2.23	12 Months
	3-Procurement of produc	ts			Pilot Application	1.2.23	1.2.24	12 Months
	4- Changing the luminair	es			Spread	1.2.24	1.2.25	12 Months
	Photos:		8					
5	Startup name: I Startup area in URL: Description:	Dissemina <b>UI Green</b>	ation of e metric q	ecological fonts uestionnaire (SI	, EC, WS, WR,	TR, ED): El	D	

Start-up Name: Problem Detection: In our university, exams a students.Most paper and Exam questions are giver Project Purpose and Scop It is aimed to reduce the evaluation at our univers and toner usage by using	Disseminati are held in orde toner usage of	on of ecologic	al fonts	Posponsible	1		
In our university, exams a students.Most paper and Exam questions are given <b>Project Purpose and Scop</b> It is aimed to reduce the evaluation at our univers and toner usage by using	are held in orde toner usage o			Kesponsible.	lusting 0.0		
students.Most paper and Exam questions are given <b>Project Purpose and Scop</b> It is aimed to reduce the evaluation at our univers and toner usage by using	toner usage o	r to evaluate	the knowledge of the	Leader:	Asist Dr Adom	ecii Demiray,	
Exam questions are given <b>Project Purpose and Scop</b> It is aimed to reduce the evaluation at our univers and toner usage by using	usage 0	ccurs in even	s.	Asos Dr. Sepay Pa	וואסטייייייייייייייייייייייייייייייייייי	dip Avsar	
Project Purpose and Scop It is aimed to reduce the evaluation at our univers and toner usage by using	n to the studen	ts in hard conv	y.		,, Di. El		
It is aimed to reduce the evaluation at our univers and toner usage by using	e:			Goal and Benefits:			
evaluation at our univers and toner usage by using	amount of pap	er and toner ι	used in student inform	ation 1- Saving about 10	% in toner usage		
and toner usage by using	ity.The scope o	of the study is	to provide savings in p	aper 2- Saving about 5%	in paper usage		
i	ecofont softw	are in the unit		3- Raising awarene	ess of people by r	aising awareness	
where the exam papers a	are printed.				AL		
				Cost:	No cost or 10-1	5 \$	
Activity Stone:				Earning:	At least 10% to	ner and 5% paper	Act
1- Conducting surveys on	students and c	staff		Planning	1100	110	12 M/
2- Preparing with the exa	am questions n	rinting unit		Preparation	1.1.22	1.1.23	12 M
3- Performing the printin	g processes			Pilot Application	1.1.25	1.1.24	12 Mo
0.1.1				Spread	1.1.26	1.1.27	12 Mo
				WARDEN IN SALES AND AND AND AND AND AND AND AND AND AND			
Startup name: F Startup area in	Reducing <b>UI Green</b>	the use o metric q	of single-use puestionnaire	plastic materials (SI, EC, WS, WR,	TR, ED): W	/5	
Startup name: F Startup area in URL: Description:	Reducing <b>UI Green</b>	the use o <b>metric q</b>	of single-use p uestionnaire	plastic materials (SI, EC, WS, WR,	TR, ED): W	/S	
Startup name: F Startup area in URL: Description: START-UP-06	Reducing <b>UI Green</b>	the use o <b>metric q</b>	of single-use p uestionnaire	plastic materials (SI, EC, WS, WR,	TR, ED): W	/S	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name:	Reducing <b>UI Green</b> Reducing th	the use of single	of single-use p uestionnaire	olastic materials (SI, EC, WS, WR,	TR, ED): W	/S	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection:	Reducing <b>UI Green</b> Reducing th	the use of single	of single-use p uestionnaire	olastic materials (SI, EC, WS, WR, s Responsible: Leader:	TR, ED): W	/S Avşar	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp	Reducing <b>UI Green</b> Reducing th	the use of single	of single-use p uestionnaire	s Responsible: Leader: Team Members:	TR, ED): W	/S Avşar 1 Sarihan	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus.	Reducing UI Green Reducing th osable plastic	the use of single	of single-use p uestionnaire	olastic materials (SI, EC, WS, WR, s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba	TR, ED): W Asos. Dr. Edip / Asist. Dr. Adem albay, Instructor D	/S Avşar 1 Sarıhan Dr. Secil Demiray	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Score	Reducing UI Green Reducing th osable plastic	the use of single	of single-use p uestionnaire	olastic materials (SI, EC, WS, WR, s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefite:	TR, ED): W Asos. Dr. Edip A Asist. Dr. Adem albay, Instructor D	/S Avşar n Sarıhan Dr. Secil Demiray	
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to	Reducing UI Green Reducing th osable plastic pre: preduce the us	the use of single cups used extended ex	of single-use p uestionnaire	olastic materials (SI, EC, WS, WR, s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the am	TR, ED): W Asos. Dr. Edip / Asist. Dr. Adem albay, Instructor D	/S Avşar n Sarıhan Dr. Secil Demiray aste originating f	rom tł
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic preduce the us t this issue and	the use of single cups used extended ex	of single-use p uestionnaire	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the am 2-raising awarene:	TR, ED): W Asos. Dr. Edip / Asist. Dr. Adem albay, Instructor D nount of plastic w ss about the envir	/S Avşar n Sarıhan Dr. Secil Demiray aste originating f ronmental damag	rom tł
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic pre: preduce the us t this issue and	the use of single cups used extended ex	of single-use p uestionnaire	S Responsible: Leader: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the arr 2-raising awarene: 3-recovery of used	TR, ED): W	/S Avşar n Sarıhan Dr. Secil Demiray aste originating f ronmental damag	rom the of p
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness abou	Reducing UI Green Reducing th osable plastic re: o reduce the us t this issue and	the use of single cups used extended ex	of single-use p uestionnaire	s Responsible: Leader: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the arr 2-raising awarene: 3-recovery of used 4-raising awarene:	TR, ED): W	/S	rom the of p
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic re: o reduce the us t this issue and	the use of single cups used extended ex	of single-use p uestionnaire	s Responsible: Leader: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the arr 2-raising awarene: 3-recovery of used 4-raising awarene: Cost:	TR, ED): W	/S Avşar 1 Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) etucad Lind cito	rom the of p
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green	the use of single cups used extended to make it a	of single-use p uestionnaire	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the arr 2-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti	TR, ED): W	/S Avşar 1 Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glas	rom ti e of p
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic poreduce the us t this issue and	the use of metric q	of single-use p uestionnaire e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the am 2-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity	TR, ED): W	/S Avşar 5 Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glas End	rom ti e of p
Startup name: f Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic preduce the us t this issue and pany and deter	the use of metric q	of single-use p uestionnaire e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 3-recovery of used 4-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity Planning Prongention	TR, ED): W	/S Avşar 1 Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glas End 1.10.22	rom tl e of p Actu 12 M
Startup name: f Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about Activity Steps: 1- Meeting with the com 2-Preparation of necessa 3-Browision of promotion	Reducing UI Green Reducing th osable plastic preduce the us t this issue and pany and deter ry visual materials	the use of metric q	e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 3-recovery of used 4-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity Planning Preparation Billot Application	TR, ED): W	/S Avşar n Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glas End 1.10.22 1.10.23	rom th e of pl Actua 12 M 12 M
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness abou Activity Steps: 1- Meeting with the com 2-Preparation of promotion 4-Installing the stand	Reducing UI Green Reducing th osable plastic preduce the us t this issue and pany and deter ry visual mater al materials	the use of single cups used externation of the second seco	e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the arr 2-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity Planning Preparation Pilot Application	TR, ED): W	/S Avşar n Sarıhan Dr. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glas End 1.10.22 1.10.22 1.10.24	rom th e of pl Actua 12 M 12 M 12 M
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about Activity Steps: 1- Meeting with the com 2-Preparation of necessa 3-Provision of promotion 4-Installing the stand	Reducing UI Green Reducing th osable plastic preduce the us t this issue and pany and deter ry visual materials	the use of metric q	of single-use p uestionnaire e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the am 2-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity Planning Preparation Pilot Application Spread	Asos. Dr. Edip /         Asos. Dr. Edip /         Asist. Dr. Adem         albay, Instructor D         insum of plastic with the environing lass         sourt of plastic with the environing lass         so of the zero warding lass         3000 \$ (7000 g c waste will be reference will b	/S Avşar n Sarıhan Or. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glass End 1.10.22 1.10.23 1.10.24 1.10.25	rom t e of p 12 N 12 N 12 N
Startup name: F Startup area in URL: Description: START-UP-06 Start-up Name: Problem Detection: It is the reduction of disp and students on campus. Project Purpose and Scop The aim of the study is to to raise awareness about	Reducing UI Green Reducing th osable plastic preduce the us t this issue and pany and deter	the use of metric q	of single-use p uestionnaire e-use plastic material ensively by staff ups by staff and stude way of life.	s Responsible: Leader: Team Members: Asos. Dr. Şenay Ba Goal and Benefits: 1-Reducing the am 2-raising awarene: 3-recovery of used 4-raising awarene: Cost: Earning: The plasti Task/Activity Planning	TR, ED): W	/S Avşar n Sarıhan Or. Secil Demiray aste originating f ronmental damag ste system lass cups) educed. Used glass End 1.10.22	ro e I

START-UP-07       Responsible:         Start-up Name:       Raising awareness by collecting plastic caps       Responsible:         Problem Detection:       Leader:       Asos. Dr. Edip Avşar         The aim of the ongoing zero waste project in Turkey is to raise awareness       Team Members:       Technician Hüseyin Temel, Asis         for plastic waste in our university.       Asos. Dr. Şenay Balbay       Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university, to increase awareness and to realize social responsibility projects.       Goal and Benefits:       Providing wheelchairs within the scope of social concrease awareness of green campus studies         For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the e         provided for those in need.       Cost:       No cost         Activity Steps:       Task/Activity       Start       End         1- Making plastic cap collection announcements       Planning       6.1.00       1.72	nel, Asist. Dr. Ade of social respons e project ng the environme studies
START-UP-07         Start-up Name:       Raising awareness by collecting plastic caps       Responsible:         Problem Detection:       Leader:       Asos. Dr. Edip Avşar         The aim of the ongoing zero waste project in Turkey is to raise awareness       Team Members:       Technician Hüseyin Temel, Asis         for plastic waste in our university.       Asos. Dr. Şenay Balbay       Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university, to increase awareness and to realize social responsibility projects.       Second and Benefits:       I- Providing wheelchairs within the scope of social as the zero waste project.         For this purpose, plastic bottle caps will be collected and wheelchairs will be provided for those in need.       4- Increasing awareness of green campus studies         Cost:       No cost       Earning:       A wheelchair         Activity Steps:       Task/Activity       Start       End         1- Making plastic cap collection announcements       Planning       6.1.00       1.7.2	of social respons e project ng the environme studies
Start-up Name:       Raising awareness by collecting plastic caps       Responsible:         Problem Detection:       Leader:       Asos. Dr. Edip Avşar         The aim of the ongoing zero waste project in Turkey is to raise awareness       Team Members:       Technician Hüseyin Temel, Asis         for plastic waste in our university.       Asos. Dr. Şenay Balbay       Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university, to increase awareness and to realize social responsibility projects.       Goal and Benefits:       Providing wheelchairs within the scope of social action constrained wheelchairs will be         For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the e         provided for those in need.       Cost:       No cost         Activity Steps:       Task/Activity       Start       End         1- Making plastic cap collection announcements       Planning       6.1.00       1.7.2	of social respons e project ng the environme studies
The aim of the ongoing zero waste project in Turkey is to raise awareness       Team Members:       Technician Hüseyin Temel, Asis         for plastic waste in our university.       Asos. Dr. Şenay Balbay       Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university,       1- Providing wheelchairs within the scope of socia         Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university,       1- Providing wheelchairs within the scope of socia         to increase awareness and to realize social responsibility projects.       2- Raising awareness about the zero waste project         For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the e         provided for those in need.       Cost:       No cost         Cost:       No cost       Earning:         Activity Steps:       Task/Activity       Start         1- Making plastic cap collection announcements       Planning       6.1.00       1.7.2	of social respons e project ng the environme studies
for plastic waste in our university.       Asos. Dr. Şenay Balbay         Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university, to increase awareness and to realize social responsibility projects.       I- Providing wheelchairs within the scope of social 2- Raising awareness about the zero waste project         For this purpose, plastic bottle caps will be collected and wheelchairs will be provided for those in need.       3- Ensuring waste disposal without harming the edition of the second state of the secon	of social respons e project ng the environme studies
Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university,       1- Providing wheelchairs within the scope of social to increase awareness and to realize social responsibility projects.         For this purpose, plastic bottle caps will be collected and wheelchairs will be       2- Raising awareness about the zero waste project         For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the e         provided for those in need.       4- Increasing awareness of green campus studies         Cost:       No cost         Earning:       A wheelchair         Activity Steps:       Task/Activity       Start         1- Making plastic cap collection announcements       Planning       6.1.00       1.7.2	of social respons e project ng the environme studies
The aim of the project is to disseminate zero waste practices in the university,       1- Providing wheelchairs within the scope of social to increase awareness and to realize social responsibility projects.       2- Raising awareness about the zero waste project         For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the ero are and the scope of green campus studies         For this purpose, plastic bottle caps will be collected and wheelchairs will be       4- Increasing awareness of green campus studies         Cost:       No cost         Earning:       A wheelchair         Activity Steps:       Task/Activity         Start       End         Planning       6.1.00       1.7.2	of social respons e project and the environme studies
to increase awareness and to realize social responsibility projects. 2- Raising awareness about the zero waste project For this purpose, plastic bottle caps will be collected and wheelchairs will be 3- Ensuring waste disposal without harming the e provided for those in need. 4- Increasing awareness of green campus studies Cost: No cost Earning: A wheelchair Activity Steps: 2- Raising awareness about the zero waste project 1- Making plastic cap collection announcements Planning 6.1.00 1.7.7	e project 1g the environme studies
For this purpose, plastic bottle caps will be collected and wheelchairs will be       3- Ensuring waste disposal without harming the e         provided for those in need.       4- Increasing awareness of green campus studies         Cost:       No cost         Activity Steps:       A wheelchair         1- Making plastic cap collection announcements       Task/Activity         Start       End	ng the environme studies
provided for those in need.     4- increasing awareness or green campus studies       Cost:     No cost       Earning::     A wheelchair       Activity Steps:     Task/Activity       1- Making plastic cap collection announcements     Planning     6.1.00	
Activity Steps:     Task/Activity     Start     End       1- Making plastic cap collection announcements     Planning     6.1.00     1.7.2	
Activity Steps: Task/Activity Start End 1- Making plastic cap collection announcements Planning 6.1.00 1.7.2	
1- Making plastic cap collection announcements Planning 6.1.00 1.7.2	Actual
	1.7.21 1 Mon
2- Collection of caps by club members at one point Preparation 1.7.21 1.9.2	1.9.21 2 Mon
3- Taking the collected covers to the wheelchair change point Pilot Application 1.9.21 1.9.2	1.9.22 12 Mo
4- Delivering the wheelchair to the needy Spread 1.9.22 1.9.2	1.9.23 12 Mo
Startup name: Raising awareness by collecting waste oils Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL:	
Startup name: Raising awareness by collecting waste oils Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL: Description:	:D
Startup name: Raising awareness by collecting waste oils Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL: Description:	Đ
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08	=D
Startup name: Raising awareness by collecting waste oils         Startup area in Ul Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         The aim of the ongoing zero waste project in Turkey is to raise awareness in         Team Members:         Asist. Dr. Adem Sarthan	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP-08         Start-up Name:         Raising awareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.	<b>ED</b>
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL:         Description:         Start-UP-08         Start-UP-08         Start-UP-08         Start-up Name:         Raising awareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.         Project Purpose and Scope:	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-UP-08         Start-UP-08         Start-UP Name:         Raising awareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.         Project Purpose and Scope:         The aim of the project is to disseminate zero waste practices in the university.	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-UP-08         Start-UP-08         Start-UP-08         Start-UP area in di gauareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.         Project Purpose and Scope:         The aim of the project is to disseminate zero waste practices in the university,         1: Raising awareness and to realize social responsibility projects.	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-up Name:         Raising awareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils         Project Purpose and Scope:         The aim of the project is to disseminate zero waste practices in the university, to increase awareness and to realize social responsibility projects.         For this purpose, waste oil will be collected and a budget will be provided         Providing financial financing for green campus	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL:         Description:         Start-UP-08         Start-UP-08         Startup Name:         Raising awareness by collecting waste oils         Responsible:         Problem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in of the ongoing zero waste project in Turkey is to raise awareness in a sos. Dr. Edip Avgar         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste practices in the university.         The aim of the project is to disseminate zero waste projects.         For this purpose, waste oil will be collected and a budget will be provided         Stroviding financial financing for green campus for green campus studies.         For this purpose, waste oil will be collected and a budget will be provided         Stroviding f	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED URL:         Description:         Start-up Name:         Raising awareness by collecting waste oils         Responsible:         Start-up-08         Froblem Detection:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.         Project Purpose and Scope:         The aim of the project is to disseminate zero waste practices in the university.         1: Aaising awareness about the zero waste project.         For this purpose, waste oil will be collected and a budget will be provided         5: Providing financial financing for green campus studies.         For this purpose, waste oil will be collected and a budget will be provided         7: Providing financial financing for green campus for green campus studies.         Cost:       No cost         Earning:       Calculating	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-up Name:       Raising awareness by collecting waste oils         Responsible:       Leader:         Proben Detection:       Leader:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.       Scol and Benefits:         The aim of the project is to disseminate zero waste prodicts in the university, 1: Raising awareness about the zero waste project.       Goal and Benefits:         The aim of the project is to disseminate zero waste projects.       Forsuring the disposal of wastes without harm for this purpose, waste oil will be collected and a budget will be provided for green campus studies.       Cost:       No cost         For this purpose, waste oil will be collected and a budget will be provided for green campus studies.       Cost:       No cost         Activity Steps:       Cost:       No cost       Earning:       Calculating	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Start-up Name:       Raising awareness by collecting waste oils         Responsible:       Asos. Dr. Edip Avgar         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.       Responsible:         Problem Detection:       Isadar:         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.       Goal and Benefits:         Project Purpose and Scope:       Cool and Benefits:       Isadar genemests of wastes without harm for green campus for green campus for green campus studies.         For this purpose, waste oil will be collected and a budget will be provided for green campus studies.       Social and Benefits:         Cost:       No cost       Earning:         Calculating       Calculating         Activity Steps:       Task/Activity       Start         1- Making agreements with the waste oil collector company       Planning       19.23	ED
Startup name: Raising awareness by collecting waste oils         Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, ED         URL:         Description:         Startup Name:       Raising awareness by collecting waste oils         Responsible:       Asos. Dr. Edip Avgar         The aim of the ongoing zero waste project in Turkey is to raise awareness in our university for waste oils.       Responsible:         Project Purpose and Scope:       Goal and Benefits:         The aim of the project is to disseminate zero waste practices in the university, for green campus studies.       1. Raising awareness about the zero waste projects.         For this purpose, waste oil will be collected and a budget will be provided for green campus studies.       Cost:       No cost         Cost:       No cost       Earning:       Calculating         Attivity Steps:       Task/Activity Start       End         1. Making agreements with the waste oil collector company       Planning       1.9.21       1         2. Anouncement of waste oil collection at the university       Project and sense oil collection at the university       Presentions       Cost:       No cost         1. Making agreements with the waste oil collector company       Planning       1.9.21       1         2. Collection of waste oil collection at the university       Presentionaticon       1.22       1 <td>ED</td>	ED

Start	-up Name: F	Reducing t	he energy co	nsumption	of facade	lighting	
START-UP-09							
Start-up Name: Problem Detection: A total of 108 wall washer power consumption of eac	Reducing the energy fixtures are used in E h luminaire is 65 wat	y consumption of Bilecik Şeyh Edeb tts. Considering t	f facade lighting ali University. The hat the system 747.6 kW/baur	Responsible: Leader: Team Members:	Assoc. Dr. Edip Eng. Harun CIN	Avşar AR, Assoc. Prof. A	dem SARIHAN
Operates for 4380 hours pe	r year, its annual cor	nsumption is 30,	747.6 KW/nour.	Cool and Banafita			
In order to save energy, the lumit to the facades of the buildings. The state, when it is predicted that the	naires will be disassemble here are 24 luminaires, 1, he system operates for 43	ed and replaced with 2+12, on the front of 380 hours a year, the	luminaires corresponding the building. In its new re will be a consumption	1- Electricity consu 2- Carbon footprint 3- Depreciation per	mption will decre t will decrease riod is calculated	ease approximate as 548 hours (1.5	ly 90%. months)
of 3,/84.32 kW/hour per year. If change is 26.963.28 kW/hour.	ie amount of energy savir	ngs to be achieved in	a year as a result of the	Earning:	6468.28 \$ (for :	L month)	
Activity Steps:				Task/Activity	Start	End	Actual
1- Disassembly of materials	5			Planning	1.11.22	1.6.23	7 Months
2- Supply and installation of	of new materials			Preparation	1.6.23	1.12.23	6 Months
3- Commissioning the syste	em			Application	1.12.23	1.6.24	7 Months
PROTOS:							

### 10 Start-up Name: Separate collection of electrical and electronic wastes of students and staff on campus START-UP-10 Separate collection of electrical and electronic wastes of students an Responsible: Leader: Start-up Name: Problem Detection Assoc. Dr. Edip Avşar Eng. Harun CINAR, Assoc. Prof. Adem SARIHAN Team Members: Collecting and recycling electrical and electronic wastes from the homes of students and staff utside the university Project Purpose and Scope Goal and Benefits: 1- Collection of household waste outside of school and disposal in an environmentally friendly manner The bulbs and fluorescents used in our university, and electrical and electronic wastes are - Income from wastes other than fluorescent and light bulbs collected separately on campus: however, there is no such order in our city. For this reason, it is aimed to bring these wastes generated in the homes of the staff and students to the school and ensure their recycling. 3- Using the income obtained in other activities that will increase recycling Cost: 0 \$ (Necessary materials will be obtained from AGID association) Earning: 500 \$ (electricity will be earned from the sale of electronic waste) Activity Steps: 1- Preparation and announcement of the project Task/Activity Planning End Actual 1.6.23 7 Months Start 2-Reviewing the boxes in the units, completing the deficiencies Preparation 1.6.23 1.12.23 6 Months 3-Collection of waste and sending it to contracted companies for recycling Application 1.12.23 1.6.24 7 Months Photos: Start-up Name: Reducing carbon footprint by increasing combustion efficiency in university 11 boilers START-UP-11 Reducing carbon footprint by increasing combustion efficiency in university boilers Start-up Name Responsible: Assoc. Dr. Edip Avşar Problem Detection Leader: Eng. Faruk ÜNLÜ, Lecturer Seher SARI, Feam Members: There is fuel consumption in the boilers of our university for heating purposes. When boilers do not burn Eng. Veli ARSLAN efficiently, fuel consumption and carbon footprint increase. Project Purpose and Scope: Goal and Benefits: 1- Kazanlar daha verimli yanacaktır The aim of the project is to regularly monitor combustion efficiency by regular flue gas measurements in boilers In this context, the factors that may cause low efficiency will be determined and the boilers will be burned more - Karbon ayakizi azalacaktır 3- Yakıt miktarı azalacak, kampüs hava kalitesi artacaktır efficiently. Thus, fuel consumption and heating costs will decrease. In addition, air quality modeling will be made with the data obtained, and the effect of heating activities on campus air quality will be investigated. 1100 \$ Cost: Earning: 10000 \$ (for 1 year) Activity Steps: Task/Activity Start End Actual 1.11.22 1.6.23 7 Months 1- Supply of necessary materials and air quality modeling program Planning 2-Maintenance and calibration of the flue gas measurement device Preparation 1.6.23 1.12.23 6 Months 3-Measurement, data acquisition and modeling work Application 1.12.23 1.6.24 7 Months 4-Interpreting the obtained data, detecting the faults and applying corrective and preventive measures Previous Image Next Image Photos: