



SUSTAINABILITY
REPORT 2023

Sustainable Campus Office

TIMELINE

CENTRE OF EXCELLENCE

Centre of Excellence was the office established in 2009 to begin the sustainable development of the campus.

2009



PHOTOVOLTAIC POWER PLANT PROJECT

Photovoltaic Plant Project is commissioned in 2015 to develop a peak power of 1.3 MW in order to provide sustainable energy to the whole campus.

2015



ENERGY AND WATER SOURCE MONITORING

The Science and Technology Building is a unique project. It is the only building equipped with applied energy conservation measures in the region.

2019



2011



SUSTAINABLE ENERGY RESEARCH CENTRE

Sustainable Energy Research Center was created in 2011 to deal with campus sustainability issues.

2016



SCIENCE AND TECHNOLOGY BUILDING

The Science and Technology Building is a unique project. It is the only building equipped with applied energy conservation measures in the region.



● ● ● **● BIOGAS PROJECT**

- Pre-engineering study of 1MW Biogas Plant has been completed and local permissions were obtained. Installation is planned to end in 2025.



2021



● ● ● **● PROTOCOLS AND INCREASING RELATIONS**

- Different protocols with private institutions and governmental bodies were signed in relation to SDGs to increase partnership and goals.



2023



2020



● ● ● **● ENERGY AUDIT OF EDUCATIONAL BUILDINGS & SUSTAINABILITY POLICY**

- Energy Audit of educational buildings such as EHB was carried out to determine the areas that are open for energy efficiency and savings across the campus. Additionally, sustainability policy for the campus was created.



2022



● ● ● **● FREE DRINKING WATER & COMMUNITY GARDEN**

- Free drinking water project was realized where 35 fountains were placed across the campus. Additionally, a community garden where students can grow their own plants was established.



Smart Building Implementation

The goal is to provide clean and affordable energy to the whole campus.

%75

75 % of the buildings are equipped with energy monitoring and management systems, allowing us to record energy consumptions of each building and have energy supply management.

%50

50 % of all buildings in the campus are implemented with automation systems in order to improve energy efficiency such as HVAC Systems, Central Vacuum Systems, Central Heating Systems etc.

%63

63 % of the buildings are equipped with water management systems like monitoring systems (Flow meters). Additionally, rainwater collection systems are used for flushing and irrigation.

%100

All buildings in the campus are equipped with smart lighting systems such as sensors, solar shading and highly efficient LED lighting.

%100

All buildings are equipped to control the indoor environment such as air quality, thermal comfort and passive cooling methods.



ENERGY AND CLIMATE

Indicators

- Energy Efficient Applications
- Smart Building Program Implementation
- Number of renewable energy sources in campus
- The total electricity usage divided by total campus population
- The ratio of renewable energy production towards total energy usage per year
- Elements of green building implementation
- Greenhouse gas emissions reduction program
- The ratio of total carbon footprint divided by campus population

UI GreenMetric World Sustainable University Ranking: 203RD, Turkey: 13th, Cyprus: 1st





Energy and Climate Score: 1550 out of 2100

PHOTOVOLTAIC PLANT

The Project was commissioned in 2015 by the Sustainable Energy Research Center. It is a unique solar energy project due to the application of 5 different mounting types, namely on a level roof, an inclined roof, terrain, facade, and carports. It remains the largest solar energy project in any university on the island. The PV project helps to mitigate 470 tons of CO₂/year.

BIOGAS PLANT

This project will be the first largest private plant of Northern Cyprus, mitigating about 70 t/y of whey and fresh waste. It is planned to produce 411 m³/h biogas, which will lead to a 600 kW electrical capacity. Additionally, nearly 500 kW heat capacity will be realized. The Biogas plant will lead to 615 tons of CO₂ reductions annually.

%100 DOUBLE GLAZING

All the buildings on the campus are equipped with double glazing windows, and according to the new energy policy on campus, any renovation or maintenance should also adopt to this type of window.

%80 HIGH-EFFICIENT EQUIPMENT

The Cyprus International University has a strict policy in relation to using high-efficient electrical equipment, such as Energy Star label or with A+ and A++ energy consumption standards.

%70 VRF SYSTEM

The Science and Technology, Çevik Uraz, CIU Sports Arena Complex, Student Services Center, Soli Apartment, Rectorate building, International Center and Student Union, alltogether cover a total area of 60,000 m2 and are equipped with a high-efficiency VRF system.

% 52 THERMAL INSULATION

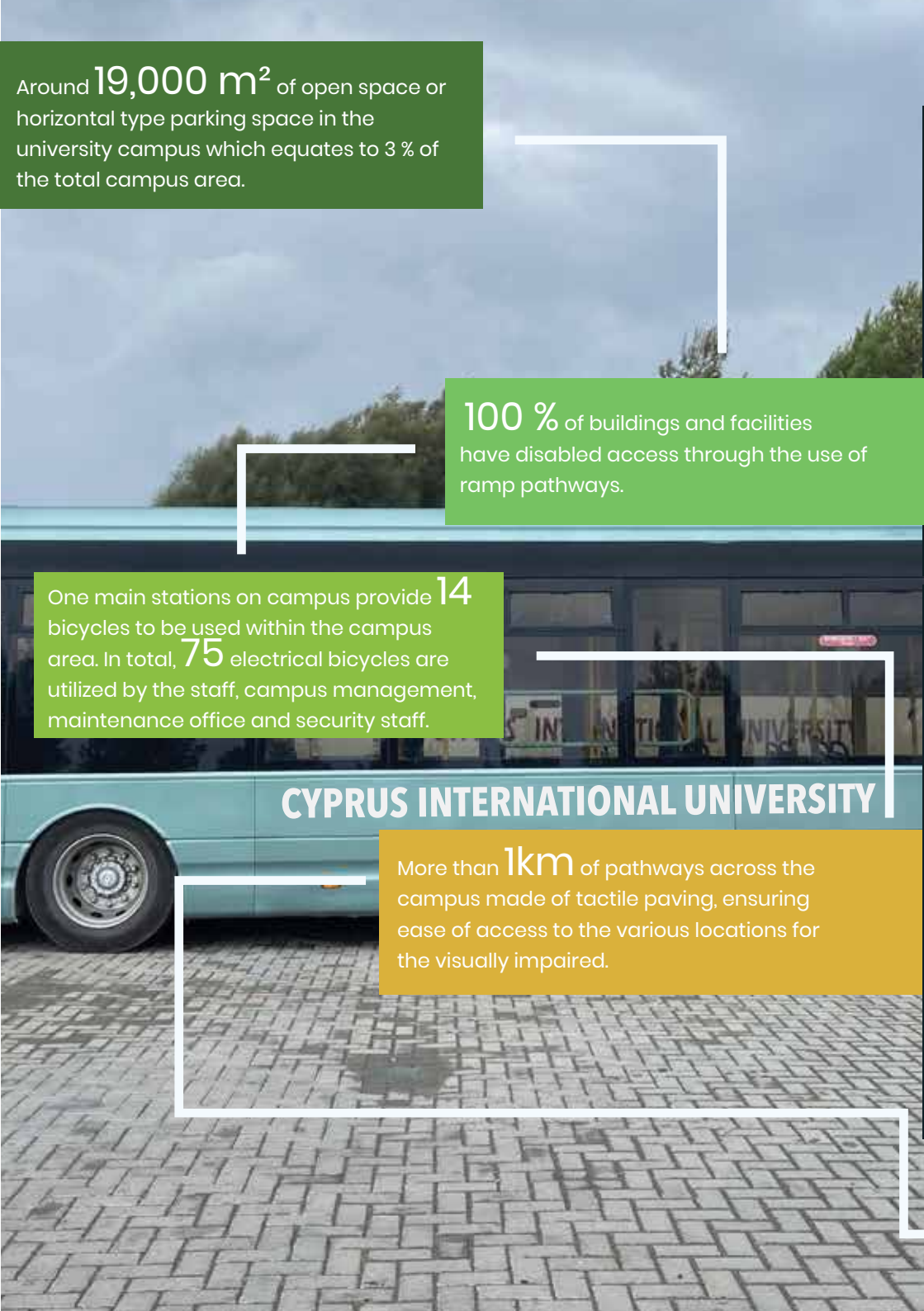
The roofs of more than 52% of the total buildings oncampus (Academic Zone), are equipped with thermal insulation. With the new project in place, it is projected that this number will be 75% by the end of 2025.

% 60 NATURAL LIGHTING

More than half of the buildings in the campus are designed with maximum natural day-lighting allowance to decrease consumption of electricity for illumination.

%100 ENERGY MONITORING

All the buildings in the campus are equipped with energy (Electricity & LPG) meters to record energy consumptions of each building and energy supply management.



Around **19,000 m²** of open space or horizontal type parking space in the university campus which equates to 3 % of the total campus area.

100 % of buildings and facilities have disabled access through the use of ramp pathways.

One main stations on campus provide **14** bicycles to be used within the campus area. In total, **75** electrical bicycles are utilized by the staff, campus management, maintenance office and security staff.

CYPRUS INTERNATIONAL UNIVERSITY

More than **1km** of pathways across the campus made of tactile paving, ensuring ease of access to the various locations for the visually impaired.

TRANSPORTATION

UI GreenMetric World Sustainable University Ranking:131st, Turkey: 9th, Cyprus:1st

Indicators

- The ratio of total vehicles divided by total campus population
- Shuttle services
- Zero emission vehicles policy on campus
- The ratio of zero emission vehicles divided by total campus population
- Transportation program, designed to limit/decrease the parking area on campus for the last 3 years
- Number of transportation initiatives to decrease private vehicles on campus
- Pedestrian policy on campus

Shuttle and Stops

25 Shuttles operate on the weekdays and total of 10 disabled friendly access and ports provided across the busses.

On average, 5,000 students use the campus buses daily.

CIU campus buses provides free trips every 2 hours during the day and intermittent free trips during the night.

Every 10 minutes, minibuses transfer students from the city center to the campus.

The Transportation Unit of the Cyprus International University offers free shuttle services to students and staff. The university owns 25 vehicles of varying sizes to fulfil its commitments to its students and staff alike, providing free transportation between the CIU campus and Nicosia daily between the hours of 07:00 and 19:45. The Famagusta shuttle services operate in the morning and evenings on weekdays only. The Transportation Unit also provides shuttle services on Saturdays to Kyrenia, departing at 14:00 from CIU and returning at 19:45 from Kyrenia.

Water Score: 1000 out of 1000

WATER

UI GreenMetric World Sustainable University Ranking: 22nd, Turkey: 1st Cyprus: 1st

Indicators

- Water conservation program
- Water recycling program
- The use of water efficient appliances
- Piped water consumed

CIU is equipped with Drip irrigation for more than 100,000 m² of forest land and high trees, and around 150,000 m² of flowers and grass area. All of the green areas are covered by the latest technology underground irrigation piping, equipped with the drip irrigation system.



CIU lake has a capacity to store 800m³ of water. However, this amount is only collected by rain.



Fresh Water

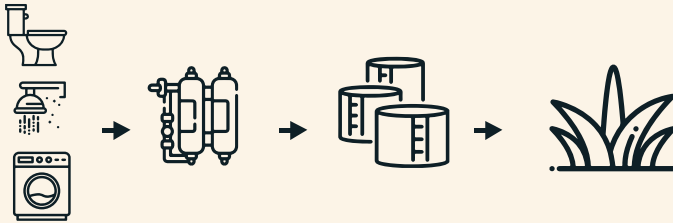
70,000 liters of municipal water daily is treated to provide free drinking water through 35 fountains around the campus.

Additionally, CIU has two underground water reserves with capacities of more than 650,000 liters (650 m³) on the east side and 80,000 liters (80 m³) underground water storage for the west side of campus.

Additionally, 100% of the water consumed and used in the campus gets recycled through the university water treatment plant and is used in irrigation, therefore no additional water is required for landscape maintenance.

One of the most important factors in maintaining the water management system is the monitoring issue. The CIU Sustainable Campus Office has completed a large project in applying water flow meters for all the campus buildings individually in 2019.

Cyprus International University Water Treatment System



SETTING AND INFRASTRUCTURE

UI GreenMetric World Sustainable University
Ranking: 34th, Turkey: 4th Cyprus:1st

Indicators

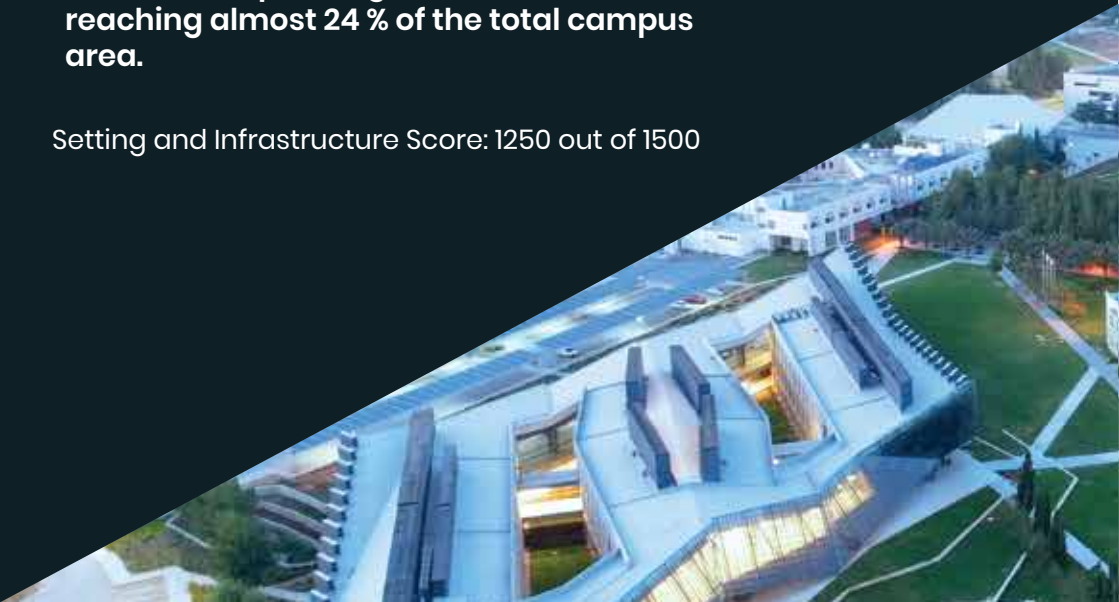
- The ratio of open space area towards total area
- Area on campus covered in forest
- Area on campus covered in planted vegetation
- Area of campus for water absorbance
- The ratio of open spaces area divided by campus population
- University budget for sustainability effort

Around 197,000 m² of the campus is covered with plant vegetations (including lawns, gardens, green roofs and internal planting), reaching almost 24 % of the total campus area.

23,000 m²

700 Pine Trees

Setting and Infrastructure Score: 1250 out of 1500



203,800 m² area, equaling to 32 % of CIU's campus, is non-retentive surfaces (e.g. earth, grass, concrete block, etc.) for water absorption.

30,000 m²
of different varieties of trees

100% of the campus buildings are equipped with access and equipment for disabled. Additionally, the campus is monitored 24/7 with the security team and open for health inspections through the health infrastructure.

1,200 m²
100 Date Palm Trees

More than **102,000 m²** of CIU is covered by forest, tall green plants and trees. The total forest area amounts to

17 % of CIU Campus.

30,000 m²
550 Olive Trees



Plastic Free Zone

2400

We have Publications related to Sustainability written by academicians.



Education Score: 1650 out of 1800

EDUCATION

UI GreenMetric World Sustainable University Ranking:144th , Turkey:9th Cyprus:1st

Indicators

- The ratio of sustainability courses towards total courses/modules
- The ratio of sustainability research funding towards total research funding
- Sustainability publications
- Sustainability events
- Sustainability student organizations
- Sustainability website
- Sustainability report

659

Publications related to Sustainability are cited on Google Scholar in the last 3 years.

71

events in 2023–2024 were held (e.g. conferences, workshops, awareness raising, practical training, etc.)

682

courses have been taught during the 2023–2024 Academic year relating to sustainability.

40

members of staff and Graduate Students are working in sustainability organizations.

50

Master and PhD thesis' dedicated to the same subject during the 2023– 2024 Academic Year.

35

undergraduate students participating on the Sustainable Campus Project.

Startup Name:

Sustainable Garden

Description: Some local vegetables and intercontinental agricultural plants and seeds were planted in order to produce organic agricultural products on the naturally amended soil within the campus, some of our yields will be spinach, radishes, parsley, celery, broad beans by the Students for Sustainable Campus Project team.

In this agricultural farm, organic waste from plants and animals is utilized to amend the soil to carry out a sustainable farming system.

Startup Name: Café Nature

Description: This is a zone of the university managed by a combined group of 8 graduate and undergraduate students with the main aim of environmental issues education and the focus on reduction of waste and plastic pollution.

Startup Name:

Sustainability Workshop

Description: 7 undergraduate students from various departments are working in the sustainable workshop to educate other students with their innovation for recycling purpose of different materials (cigarette buds, paper, glass etc.)

Waste Score: 1500 out of 1800

WASTE

UI GreenMetric World Sustainable University Ranking:184th, Turkey:9th Cyprus:1st

Indicators

- Recycling Program for University Waste
- Program to reduce the use of paper and plastic in campus
- Organic Waste Treatment
- Inorganic Waste Treatment
- Toxic Waste Treatment
- Sewerage Disposal

Cyprus International University uses the Dual Stream Recycling Plan to collect, separate and send recycling material waste to local recycling companies.

The recyclables are sorted as
Category 1: paper/cardboard, Category
2: electric waste and Category
3:metals/glass/plastic/toxic/organic

100% of paper waste had been collected by campus management student for sustainable campus (SSC) and delivered to the sustainability workshop. Around 720kg of paper waste was recycled the past year.

In addition to paper waste, more than 60% (300 kg) of cardboard were reused by sustainability workshop.

Clothes Donation: Fabric recycling is with the cooperation of a private company. All second hand clothes collected in the special boxes around of the campus are sent for recycling process to create a budget for cancer patients. 99%

Paper Wastes: is collected by special paper trash bins that are spreaded all over the campus site. The average monthly amount of newspaper and wasted paper collected is about 60 kg. 99% Sustainable innovation center creates a constant program to recycle these papers and make paper recycled pencils. Approximately 5 gr of recycled paper is required to produce a pencil.

Yard Trimming: Campus Management team collects the organic waste (grasses or leaves) around the campus which is nearly 50 kg/day and sends to be recycled or reuses in the university greenhouse as mulch and peat.

We Are Nature café is not only used as a reflection of the waste management on the campus, but also to educate the students and the public on the adverse effects of harmful materials upon the environment, such as singleuse plastic.

The green design center was founded in 2018 in the public sphere 'We Are Nature Café' and is situated in the middle campus area where students can get together and enjoy a sustainable green environment. This center has had a substantial impact upon the students on the campus with a variety of activities.

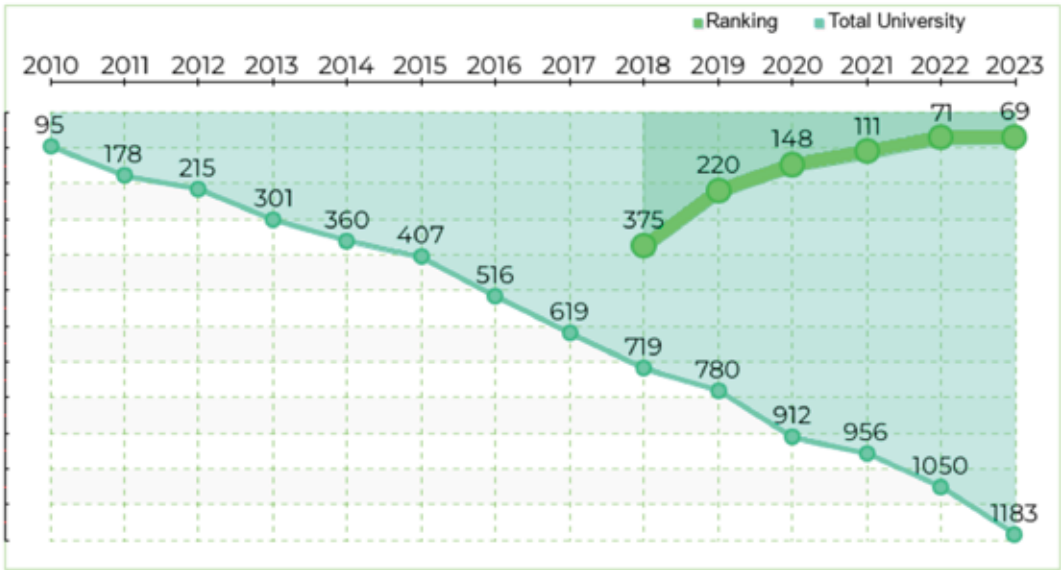
This area is designated as a plastic free zone (PFZ) and plans to educate students to reduce the usage of plastic in their day-to-day life.



SUSTAINABILITY IMPROVEMENT TRENDS

UI GreenMetric World Sustainable University Ranking:69th, Turkey:3rd Cyprus:1st

| | | | |
|-----------------------------------|--------------------------------|---------------------------------|---------------------------------|
| World Ranking 69 | SI Ranking 34 | EC Ranking 203 | WS Ranking 184 |
| | WR Ranking 22 | TR Ranking 131 | ED Ranking 144 |



| | | | |
|------------------------------------|-------------------------------|--------------------------------|--------------------------------|
| Country Ranking 3 | SI Ranking 4 | EC Ranking 13 | WS Ranking 17 |
| | WR Ranking 1 | TR Ranking 9 | ED Ranking 9 |



Certificate

This certificate is awarded to
Cyprus International University
as The 69th World's Most Sustainable University
In 2023 UI GreenMetric World University Rankings

Jakarta, 5 December 2023



Prof. Dr. Ir. Riri Fitri Sari, M.M., M.Sc.
Chairperson of UI GreenMetric

Overall Score: 8575 out of 10000



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