ULUSLARARASI KIBRIS ÜNİVERSİTESİ
CYPRUS INTERNATIONAL UNIVERSITY

Evidence for THE Impact Rankings Questionnaire

University: Cyprus International University
Country : North Cyprus- Türkiye
Web Address : www.ciu.edu.tr

[13]

[13.4.1] Commitment to carbon neutral university

Cyprus International University (CIU) is introducing a cutting-edge 800 kW Combined Heat and Power (CHP) system that has the potential to generate more than 7 million kWh of electricity per year if operated continuously, significantly reducing or completely eliminating the reliance on the national grid and lowering carbon emissions. Future integration with biogas production from campus organic waste as well as other sister companies like Taskent Tavukculuk, Levent Farms etc., will allow CIU to produce clean, circular, and locally sourced energy, transforming waste into power and positioning the university as a true energy-generating Living Lab. While several leading institutions globally such as University of California, Davis, University of British Columbia, and Ghent University, operate on-campus biogas facilities, CIU will become the first in its region to implement a CHP system directly connected to sustainability education, student research, and operational energy resilience. This innovation marks a major step toward CIU's vision of becoming a near-zero energy campus, empowering students to study, test, and optimize campus infrastructure while actively participating in climate action.

This year, as the biogas plant is not fully built, the CHP was run as a test and fed into the grid. Over a 22-hour period, the CHP produced a total of **15289 kWh** of energy. At this magnitude, when the biogas plant fully finishes the construction, CIU will be completely net zero carbon campus through its own means. The energy produced is constant.

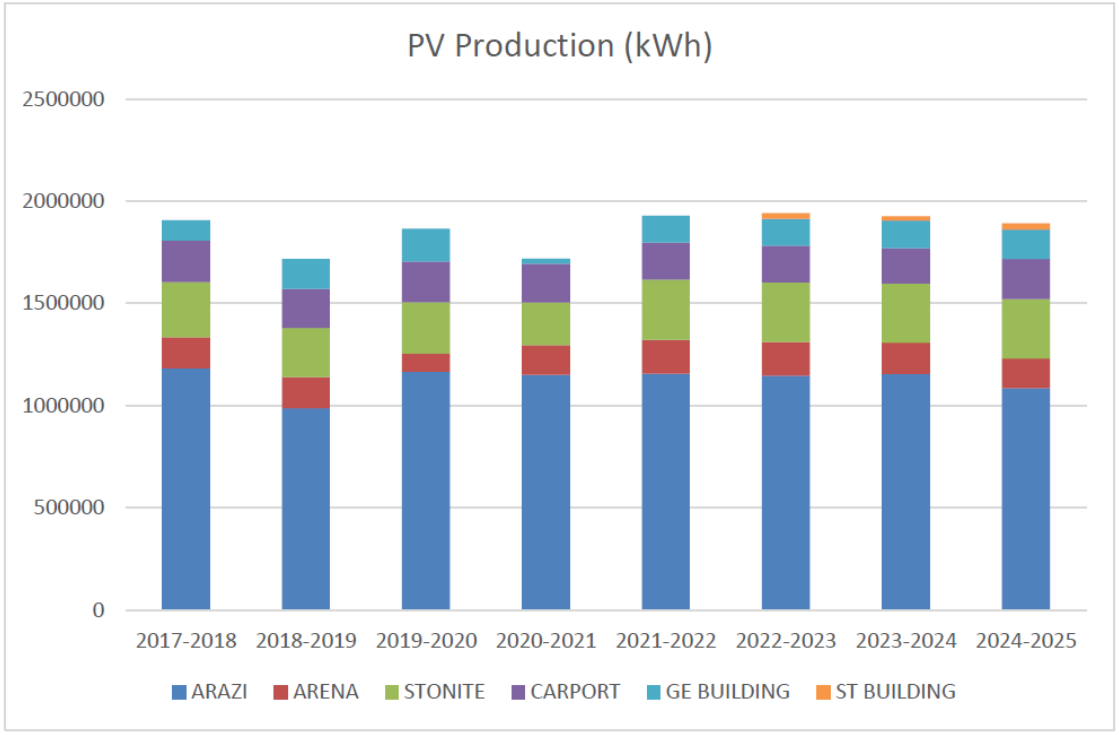
The Biogas Project was planned to finish by 2025, however due to governmental approvals, this date was pushed to 2026. However, all the approvals from Renewable Energy Department and KIBTEK were gathered, and the building permits completed, therefore the CHP can run any time we please.

The **Solar PV Project** at Cyprus International University was initiated in **2015** by the Sustainable Energy Research Center (SERC) and stands out as a pioneering renewable energy initiative in the higher education sector. The system integrates five different photovoltaic mounting technologies, including installations on flat roofs, inclined roofs, ground-mounted arrays, façade-integrated panels (BIPV on the ST Building), and solar carports, making it one of the most diverse university solar applications in the region. With a total installed capacity of 1.3 MWp, it is also recognized as one of the largest university-based solar power systems. During **the 2024**–2025 academic year alone, the system generated approximately 1,876,143 kWh of clean electricity, significantly reducing the campus's carbon footprint and contributing to CIU's transition toward a sustainable and energy-resilient future.

Arena Carport				**100 kW**
Roof				**100 kW**

ST Carport				**135 kW**
Land				**750 kW**
Stonite				**200 kW**

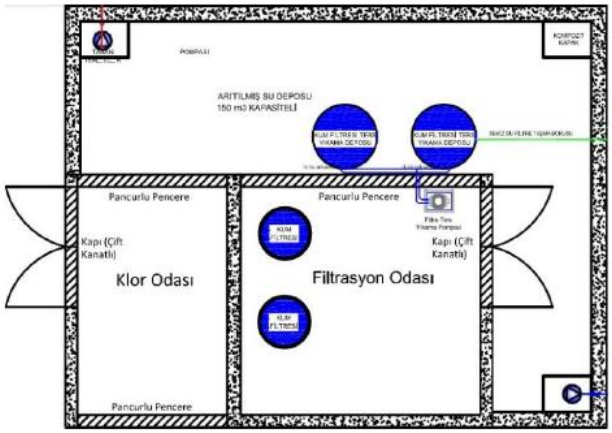
Facade		**21 kW**


PV Production (kWh)
2500000
2000000
1500000
1000000
500000
0
2017-2018
2018-2019
2019-2020
2020-2021
2021-2022
2022-2023
2023-2024
2024-2025
ARAZI
ARENA
STONITE
CARPORT
GE BUILDING
ST BUILDING

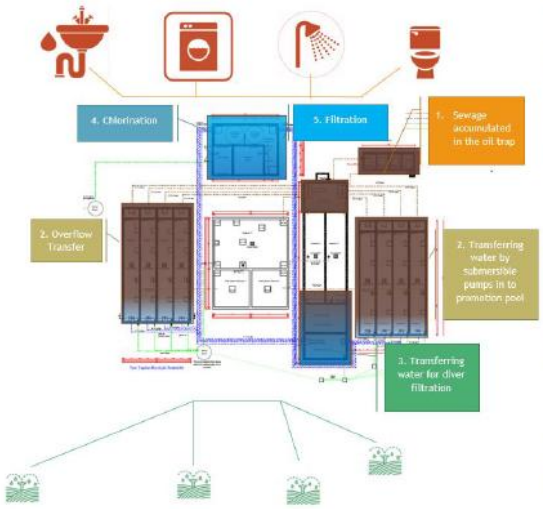
Wind and Weather station allows us to track for solar panels and future implementations.

Water Recycling Program Implementation

CIU Water Treatment System is treating all campus used water with the capacity of 1,300 tons per day. This water is mostly used for irrigation. The process is controlled by CIU maintenance team. All the buildings in the campus are connected to the drainage system that is connected directly to the water recycling centre. 100% all water from any part of the buildings is recycled to be then used in irrigation.



70 m^3 clean water capacity per day



Water Recycling Program has a capacity of 1300 tons per day

Greenhouse gas emission reduction program

1. Parking is charged for both staff and students in the campus to reduce CO2 emissions. Car parking areas are designated into different zones where it's separated into 4 parts. Rectorate, Staff, Students and Visitors. Visitors' areas are free whereas the rest of them need to purchase tickets to further limit car usage. The free areas are located further out of the campus to promote physical activity and health.
2. Using renewable energy sources for electricity to minimise the electricity intake from the grid.
3. Free Bicycle Sharing on Campus. Additionally, a bicycle rent point is also available. Electric bicycles are provided for the administration team that travels across the campus to increase efficiency.
4. Free Shuttle buses to the City Centre, Famagusta and Kyrenia cities for students to encourage public transportation rather than private vehicles.
5. Every 2 years an old building located in the campus is renovated with sustainability and energy saving applications. When new ones are built, they follow the same path as the buildings that are renovated.
6. To encourage electric car usage, charging points in the campus are provided for free and they are linked directly to the PV Panels, making car charging renewable.

	
1. Limited Parking & Designated Zones	2. Renewable Energy
	
3. Free Bicycle	4. Free Shuttle Bus
	
5. Smart Building	6. Free Electric Car Charger

Recycling Program for University Wastes

There is no particular regulation for the waste management prepared by the TRNC government, but municipalities and educational institutes such as universities are trying to create programs to take care of waste. Owing to this, CIU is the leading institute to carry out programs on recycling and managing waste inside the campus.

Cyprus International University uses Dual stream recycling plan to collect separate, and send recyclable waste to local recycling companies.
The recyclables are sorted as 3 categories which are: Category 1: paper/cardboard, Category 2: electric waste and Category 3: metals/glass/plastic/battery/toxic/organic

Category 1: 100% of paper waste had been collected by campus management students for sustainable campus (SSC) and delivered to the sustainability workshop. The collected amount of waste throughout the day is around 16.5kg and all paper wastes were recycled/reused by the campus to produce goods such as pencils and recycled paper. The collected paper waste is around 495kg a month. In addition to paper waste, more than 70% (350kg) of cardboard was reused by sustainability workshop

CLOTHES DONATION: Fabric recycling is done through a cooperation with 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.

Sustainable innovation centre 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 wastes (grasses or leaves) from the total area of CIU campus which is nearly 50 kg/day and sends or reuses to the university greenhouse as mulch and peat.

Students volunteering to clean up the campus area and around Cyprus

Construction waste: In 2024-2025, a new dormitory was constructed. This means large amount of construction waste such as concrete and timber was collected and sent to the Sustainability Techno Workshop to get recycled. Additionally, old electronical equipment such as fridges, washing machines, AC units etc., are sent to the Mechanical Workshop to be used is Sustainable Capstone Projects as recycled materials.

Wood CIU Nature Café is used as the reflection of waste management on the campus and, to educate students/public on the negative adverse effects of harmful materials on the environment. Large amount of the wood are collected and re-used for designing tables and chairs to create a 100% nature-friendly environment.

Glass Waste: We focused on the utilization of glass and paper products which are re-used to create concrete material and used to produce lighter and environmentally friendly objects such as pots. The pots will be used in front of stores for feeding cats and dogs as stray cats and dogs are a known abundance in Cyprus in general.

Food Waste: Food waste will be collected from all the restaurants of the university and are sent to animal shelters or used as stray animal food.

Electrical and Mechanical Appliances: In 2024-2025, no machines or electrical appliances were sent to companies to be fixed if broken. All of them were done in house in Sustainable Techno Workshop, especially mainly machines that are used daily in units like the Gardening Team.

The university offers incentives for pupils to bring their waste papers or clothes to get free offers such as pencils and notebooks. This waste is also collected from the faculty buildings resulting in almost 50kg of wastepaper per day resulting in 18,500 kg of paper per year. The products that are produced by the SSC team are generally given out as gifts to guests and somedays sold for a very minimal price during days like Christmas Shop or random days around the Student Union area.


CYPRUS INTERNATIONAL UNIVERSITY
S S C
STUDENTS FOR SUSTAINABLE CAMPUS
BRING YOUR JEANS,LEFTOVER FABRIC AND CLOTHES.
Get free notebooks and keyrings
BRING YOUR USED PAPERS,
Get free customized pencils
Contact:
CIU SUSTAINABILITY TECHNO WORKSHOP
Faria Iftikhar :
Director

Wood Waste is utilized to update, fix or renovate the Café Nature Area

Waste Posters

External Partnerships for Paper Recycling

- **Municipality of Gönyeli** is the one of the most significant and leading municipality that is carrying out sustainability initiatives. CIU signed an agreement with the municipality to collect their waste paper to be recycled.
- **Green Schools Project** is a project lead by a committee established by teachers from almost all primary schools in Cyprus. CIU started working with 9 Eylul Primary school and Levent Primary School and Highschool closely and we recycle all of their waste.

KKTCELL is the largest mobile network provider of both Cyprus and Turkey. A presentation was given to KKTCELL on sustainability actions in CIU, and a collaboration decision was taken to reuse/recycle the waste materials from the company.

Presentation made for an agreement between CIU and KKTCELL.

Gardening Tools after getting fixed in the workshop.

New recycling bins placed around the campus

Estimate 3110

SUSTAINABLE DESIGN STUDIO

DATE		DESCRIPTION	QTY	RATE	AMOUNT
	DSV2PAUK220	Desktop Shredder V2, Partially Assembled, UK, 220V	1	2,675.00	2,675.00
	IMMV3AEU220	Injection Mini V2, Assembled, EU, 220V	1	1,150.00	1,150.00
	FEKWF220EU	Fume Extractor, Kit, EU, 220V	1	599.00	599.00
	FMAPEU	Filament Maker	1	250.00	250.00
				Subtotal	4,714.00
	PND12	Premium Mould #12 - Metric Ruler Mould	1	310.00	310.00
	PND14	Premium Mould #14 - Carabiner Clip	1	310.00	310.00
	PND21	Premium Mould #21 - Bag Buckle & Accessories Mould	1	460.00	460.00
	PND13S	Premium Mould #13 - 3D Printer Resin Mould - Small	1	240.00	240.00
	PND13M	Premium Mould #13 - 3D Printer Resin Mould	1	250.00	250.00
	PND13L	Premium Mould #13 - 3D Printer Resin Mould - Large	1	260.00	260.00
	PND19G	Premium Mould #19 - Games Set	1	395.00	395.00
	MMBP000	Modular Mould #0.2 Base Plate Only	1	7.50	7.50
	MMWN000	Modular Mould #0.2 Top Plate (With Welded Nozzle)	1	12.00	12.00

Sustainable Techno Workshop new tools

In the sustainability workshop, we proudly recycle all our HDPE, LDPE and PET plastics now. The items purchased has not arrived as of the submission, however for the next year we will fully be starting to recycle all of our plastic. We have purchased injection machines, 3D Filament making machines and plastic shredders for the workshop.