



# **Evidence for THE Impact Rankings Questionnaire**

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

[7]

[7.4.3]

## 100% Renewable Energy Pledge:

Cyprus International University recognizes that its activities significantly impact the environment locally and globally. Thus, the university has representatives in energy-related organizations like the TRNC- Joint Energy Working Group. It actively promotes 100% renewable energy through its meetings (**See Appendix 1**) and targets 100% renewable energy. Currently, the University generates around 30 % of its energy through renewable energy resources and plans to increase It to 100% after the biogas project is completed (**See Appendix. 2**) by the end of 2025. The Cyprus International University pledged to use 100% renewable energy sources within the Campus. Current renewable sources on campus are summarized below:





# **Cyprus International University Campus: PV Power Plant Project**

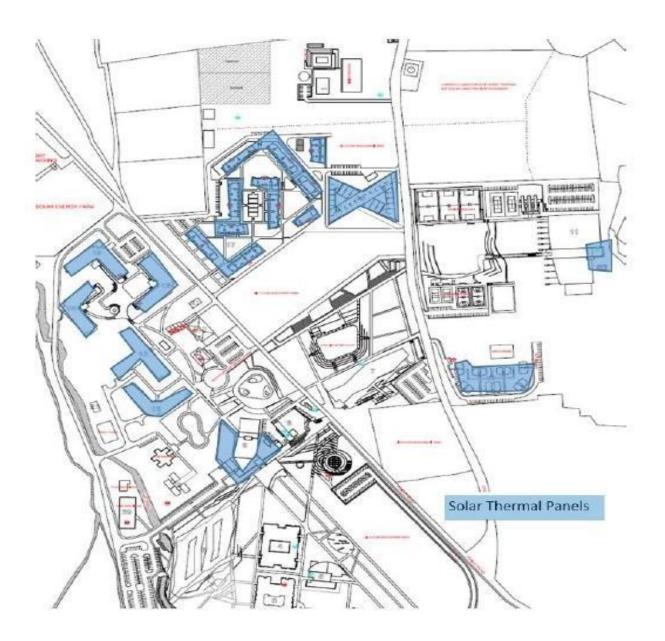
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## **Solar Thermal Panels on Campus:**

All the residential zones of the CIU campus use more than 300 solar thermal panels for hot water systems, and this energy is almost equal to 2.268 MWh in a year.





#### Appendix 2: Joint Energy Working Group (OEÇG)

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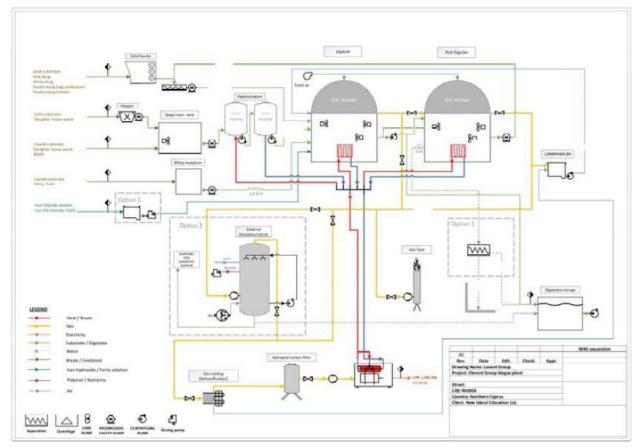
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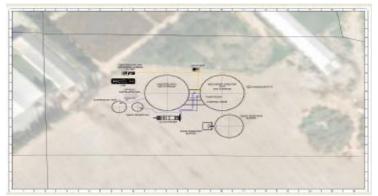




## **Appendix 2: Biogas Plant Project**



Field Plan for Biogas Plant Project







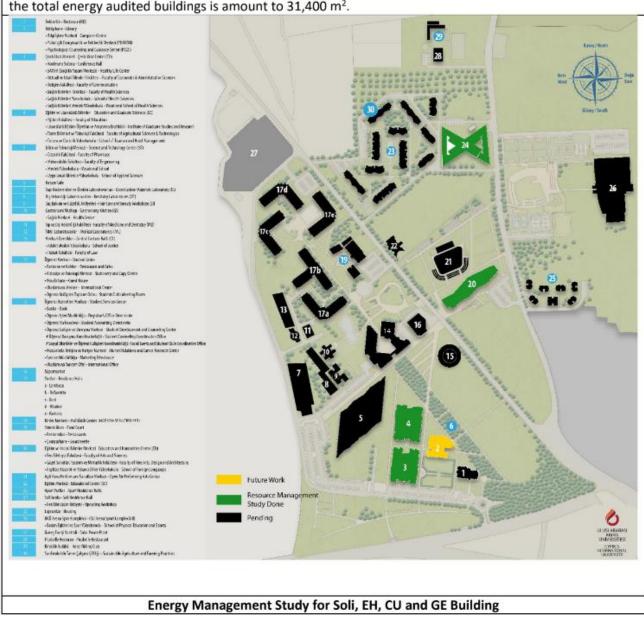
#### Analysis of Energy and Green House Gas Emissions of Cyprus International University

Status	Year	Conventional Electriciy Consumption (kWh)	RE Electriciy Consumption (kWh)	Total Electriciy Consumption (kWh)	LPG Consumption (kWh)	Total Energy Consumption (kWh)	Total Energy Consumption Per Area (kWh/m²)	Net Energy Consumption Per Capita (kWh)	Net CO <sub>2</sub> Emission Per Capita (tones)
Before PV and EE Application (2013)	2013	4,485,574.00	-	4,485,574.00	2,814,613.50	7,300,187.50	73.1	6 1,178.40	0.71
After PV (1.3 MW) Commissioning& with EE Applications (2022)	2022	5,148,520.00	1,929,789.00	7,078,309.00	2,040,882.00	9,119,191.00	59.4	8 639.94	0.44
After Biogas Plant (600 kW) Commissioning (2025)	2025	-	6,521,789.00	6,370,478.10	1,836,793.80	8,207,271.90	53.5	3 575.95	0.03
Electricity Transition fro	m Conv. Sourc	es to RE in CIU	1.400,00	Net En	ergy Consumption Per C	apita (kWh)	0,80	Net CO <sub>2</sub> Emission Per Capita (t	ones)
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After Bloges Plant (500 kW) Commissioning (2025)			1.000,00				0,50		
After PV (1.3 MW) CommissioningS, with EE Applications (2022)			500,00				0,40		
Before PV and EE Application (2013)			400,00				0,20		
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Conventional Electricly Consumption		6 40% 50% 60% 70% 8 ectriciy Consumption (kWh)	7% 90% 100% -	Before PV and EE Application (2013)	After PV (1.3 MW) Commission Applications (2022)	ing& with EE After Bloges Plant (600 kW) (2025)		EE Application After PV (1.3 MW) 13) Commissioning& with EE Applications (2022)	After Blogas Plant (600 kW) Commissioning (2025)



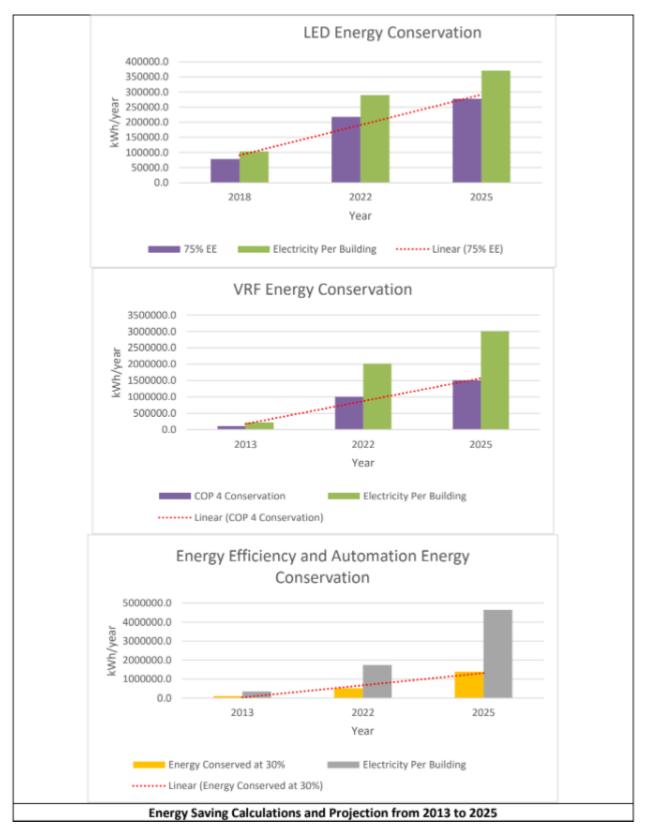


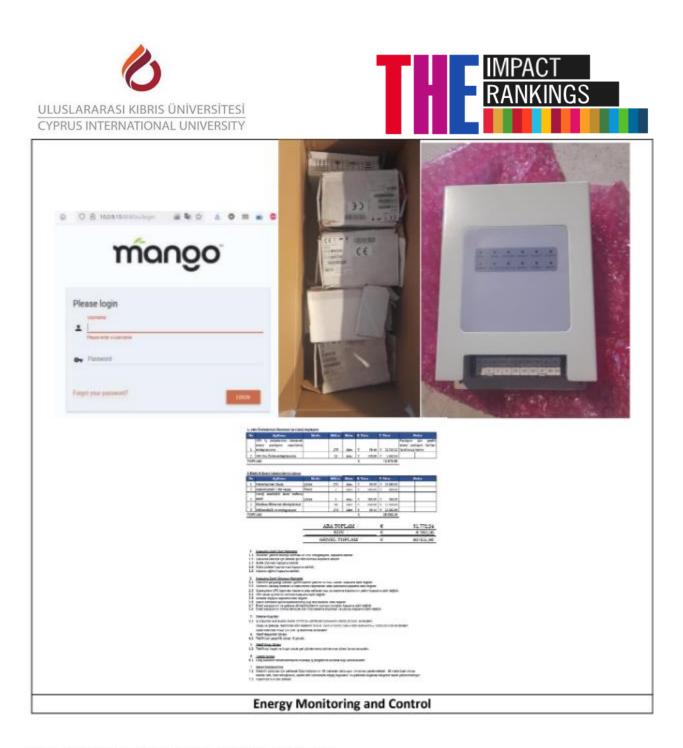
A Resource Efficiency (energy & water) strategy was settled in 2018 to renovate all buildings according to up-to-date standarts and one of the education buildings selected to be the sample. In this building, all renovations were carried out in accordance with ISO 50001 which is the goal of Sustainable Office. Third resource efficiency strategy has done by sustainable office team for Soli dormitories and the area of the total energy audited buildings is amount to 31,400 m<sup>2</sup>.











#### Some details regarding the Energy Efficiency Studies:

- · EUI value is calculated and compared with standards
- Energy consumption trends are evaluated for last 5 years
- · Energy consumption in all sections provided, and the minimum and maximum ones measured.
- · Heat gain/loss happened in the buildings measured.
- The lack of air ventilation system and the amount of CO<sub>2</sub> provided and compared with standards.
- · The illumination system measured, and the recommendation provided.
- · The shading analysis done with simulation software.
- Water saving measurement provided.
- Feasibility of study calculated.
- Energy Saving Measures.
- Energy Monitoring and Control.





#### **Renewable Energy Sources on Campus:**

This Project was commenced in 2015 by CIU SERC. It is a unique solar energy project due to applying five different mounting types: on a level roof, an inclined roof, oSn terrain, on a façade, and carports. With its 1.3 MW peak capacity, it is also the largest such project in a university in the region. A total of 1,940,000 kWh energy is realized in 2022-2023 term.

01	
Arena Carport	100 kW
Roof	100 kW
ST Carport	135 kW
Land	750 kW
Stonite	200 kW





# **Sustainable Campus Action Plan**

Sustainable Campus and UI Greenmetrics					
Work Package	Responsible Person	Supportive Staff/Groups	Admin	2023 2024	
General Topics 1. Report:				Oct. Nov. Dec. Jan. Feb. Mar. Apr. May Jun. Jul. Aug. Sep. Oct.	
1. Keport: 3. Vision					
b. Mission c. Goal	Majid Hashemipour, Serkan Abbasoğlu,				
C duar 6. Objectives	Mete Boyacı				
<ol> <li>Strategy</li> <li>Determine the key areas, measure the performance and compare it over time across other variables such as (a) building area m2; (b) no. of student/staff;</li> </ol>					
a. Energy	1				
I. EE application II. Use of LED lehting	1				
II. Insulation	1				
b. Water Consumption c. Waster disposal: decrease the amount	4				
d. Transportation: Private vehicular transport & Shuttle Service	Emre Sover & Hande Cicek				
e. Education: No. of courses related to sustainability f. No. of staff/students/visitors attend to green activities	chine soyer a nanoe çişak				
g. No. of green activities	1		Emre Soyer & Asil Azimli		
h. % of campus covered in vegetation i. No. of projects/partnerships with local authorities and community groups	4				
<ol> <li>Greenhouse gas emitted (kg CO2 equivalent staff/student FTE) due to electricity, heat, transportation,etc.</li> </ol>	1				
k. No. (length) of bicycle rack and/or bike stations I. No. of EV chargers	4				
3. Application to Associations related to Sustainability:					
SDGA (International Sustainable Development Goals Accord for Universities)     Foundation for Environmental Education (FEE) to receive Green Flag	4				
c. ULFS (University Leaders for a Sustainable Future)	Emre Soyer & Hande Çiçek				
d. GUPES (Global Universities Partnership on Environment and Sustainability) e. AASHE (Association for the Advancement of Sustainability in Higher Education)	4	1			
4. Centers of Excellence: Energy & Environment programs at 2009	Serkan Abbasoğlu & Rana Kıdak				
5. Sustainable Innovation Center 6. Promotion of Green Activities on the boards	Emre Soyer				
a. Mitigation CO2 emissions due to PV systems	Mustafa Çağataylı				
b. Reduce in Mastic bottle use c. Green Events	mustara çagatayır				
Education					
<ol> <li>Increase the no. of compulsory and elective courses</li> </ol>	Banu Numan Uyal		Erbuğ Çelebi		
2. Increase the no. of publications related to Sustainability Infrastructure				╈┹┶┶┹	
1. Green or Sustainable Procurement Policy	Purchase Department (Asil Azimli)				
2. Decrease the consumption of copy papers by improving electronic services;	Computer Center (Mustafa Çağataylı) &		Asil Azimli & Erbuğ Çelebi		
<ul> <li>Use of CIU mobile application/web site for announcements</li> </ul>	Webmaster				
b. Electronic boards (TVs) c. Controlled Printer service	Computer Center (Mustafa Çağataylı)				
Transportation & Parking					
Increase the physical activity in the campus     Bike stations	4				
b. Bicycle racks	Kozan Tunç				
c Walk way 2. Meet the criteria for a Bicycle Friendly University	Hande Çiçek	1. Students for Sustainable Campus			
3. Manage parking demand to address long-term growth with smart parking systems and improved wayfinding	Kozan Tunc	2. Campus Management 3. Sustainable Energy Research Center	Asil Azimli & Emre Soyer		
Increase passenger trips on University shuttle buses     S. Use some EVs	Emre Soyer				
6. Car sharing/pooling					
A Maximize can-pooling     Reduce 'single user' car journeys	Hande Çiçek				
Energy & Water					
Sub-meter and smart-meter buildings, in order to track energy consumption, manage for maximum efficiency, and reduce carbon impact     Connect all buildings to central monitoring and control system	4				
3. Design, construct and renovate greener buildings on campus that operate more efficiently, use less energy and water, and have reduced impacts on the environment					
a. Start with Education and Humanities Center where a report is already prepared 4. Apply Heat Insulation to all Buildings in the Campus	4				
a. Total area should be determined and evaluated		1. Project & Technical Affairs			
5. Invest more feasible HVAC system, such as VRV, to all buildings. a. Cevik Uraz and STB are designed with VRV systems	Emre Soyer	Fright at reclinical values     Campus Management     Sustainable Energy Research Center     Sustainable Energy Research Center     S. Engineering Students     E. Academic Staff     Sustainable Innovation Center	Emre Soyer & Asil Azimli		
<li>b. Arts and Social Sciences, Education and Humanities, Rector's Office and Library should be studied</li>					
<ol> <li>In addition to Çevik Uraz and STB, full automation system that controls HVAC, lightingetc. should be considered to all Buildings. Level of automation should be discussed.</li> <li>Establish appropriate energy use intensity targets for all building types</li> </ol>	-				
8. Establish appropriate water consumption targets for all building types					
9. Meter all buildings, track water consumption & Detect and repair all system leaks 10. Upgrade to ultra low-flow fixtures in all existing buildings	-				
11. Engage student and faculty further in water conservation practices	Hande Çiçek				
12. Strategize and implement a campus lighting plan to address safety, energy use, and aesthetics 13. Install a RO water treatment device to Nature Café and use glass bottle at water dispenser	Mehmet Şenol				
14. Think on installation of public dispensers in Faculty Buildings	Emre Søyer				
15. Design new buildings to achieve LEED or BREED certification using the appropriate LEED rating system Environment & Agriculture & Food				╶┼╌└╌└╌└╌└╴┝╸┛╸┙╌┥	
1. Recycle and Re-use of food wastes	Emre Sover	1			
Install green roofs to the roof of Rectorate Building     Undertake tree planting of native species in addition to international species	Emre Soyer				
<ol> <li>Plant a tree for each quest and share certificate as a gift</li> </ol>	Acriculture Department				
b. Arboriculture: start around sewage treatment plant c. A report is prepared by Faculty of Agriculture	Agriculture Department				
4. Decrease waste disposal	Emre Sover	1. Students for Sustainable Campus			
a. Develop and deliver a program of waste audits across campus to ensure (a) appropriate labelling (b) appropriate wastes are disposed of correctly	Emre Soyer	2. Academic Staff 3. Sustainable Innovation Center	Asil Azimil		
5. Stop use of plastic bottles/cups a. Initially at Palm Inn, Lake view and Rector's office	Emre Soyer	<ol> <li>Sustainable Innovation Center</li> <li>Campus Management</li> </ol>			
b. At Canteens and Cafes		-			
3. Promote the consumption of healthier and more sustainable food in Campus a. Salad day	1				
b. Fruit day c. Sustainable food menu to Palm Inn	Gastronomy Department				
6. Carry out a study on Cyprus Cuisine	1				
a. A pre-report is prepared by School of Tourism and Hospitality	l				