ULUSLARARASI KIBRIS ÜNİVERSİTESİ
CYPRUS INTERNATIONAL UNIVERSITY

Evidence for QS

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

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:

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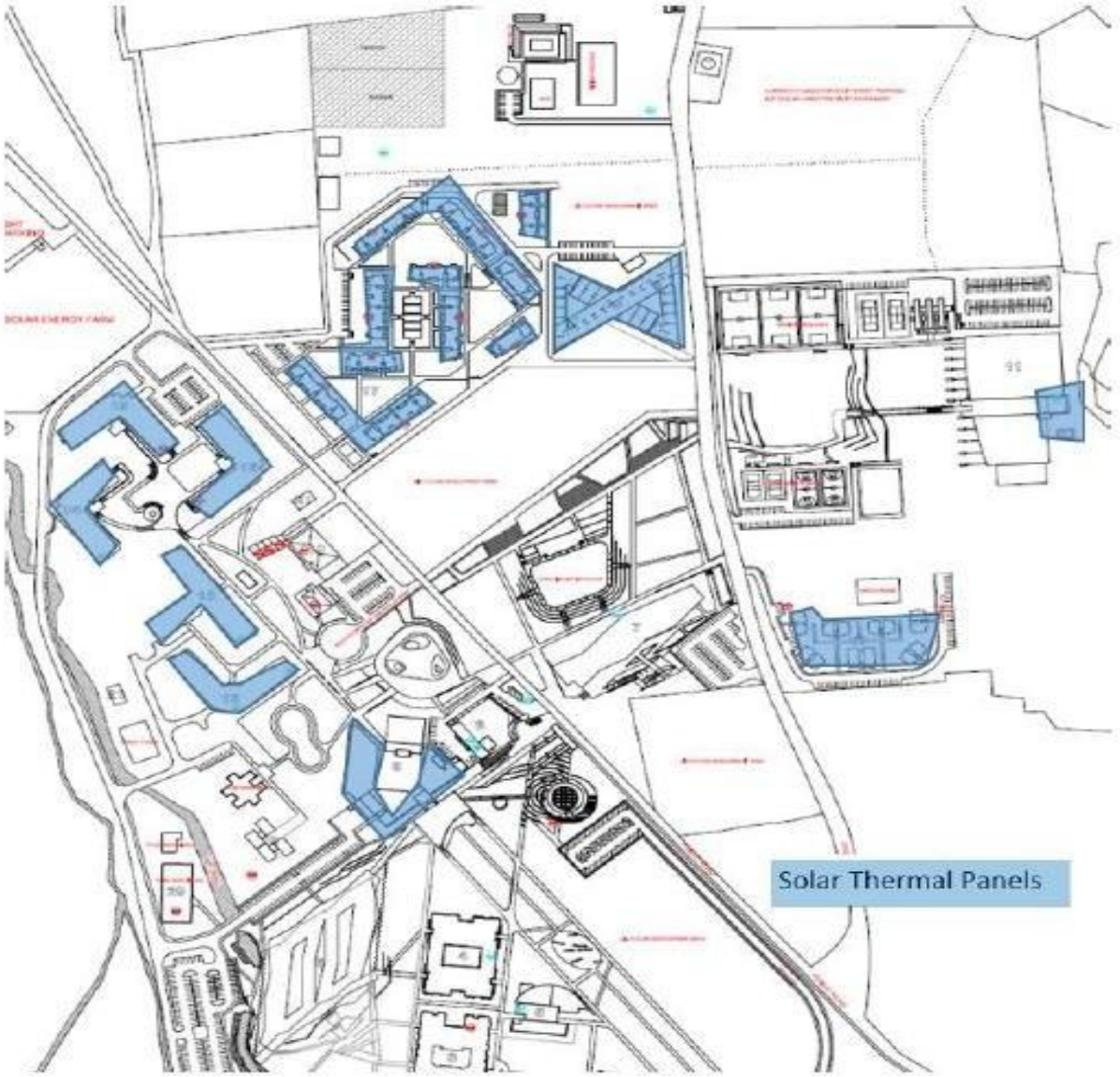
Cyprus International University Campus: PV Power Plant Project



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)



TC VE KKTC ENERJİ PROTOKOLÜ
ORTAK ENERJİ ÇALIŞMA GRUBU'NUN
TEŞKİLÂTI VE GÖREVLERİ

AMAÇ

Madde 1

DAYANAK

Madde 2

ORTAK ENERJİ ÇALIŞMA GRUBU YAPISI VE TOPLANMASI

Madde 3

TOPLANTI ŞEKLİ

Madde 4

SEKRETARYA VE GÖREVLERİ

Madde 5

OEÇG'NİN GÖREV VE SORUMLULUKLARI

Madde 6

d) Taraflarca ilgili ulusal mevzuatlarına uygun şekilde, yenilenebilir enerji kaynaklarının kullanılması, petrol ve doğalgaz kaynaklarının keşfedilmesi ve işletilmesi konusunda ortak projelerin geliştirilmesi ve bu hususlarda eğitim programlarının düzenlenmesi ile bilgi, tecrübe ve uzmanlık değişimi sağlamak.

e) Taraflar arasında elektrik altyapısının tesisi, işletilmesi, rehabilitasyonu ve elektrik iletimi alanında ortak projelerin tespiti ve geliştirilmesine yönelik çalışmalar yapmak.

f) Türkiye Cumhuriyeti ile Kuzey Kıbrıs Türk Cumhuriyeti arasında deniz geçişi ile elektrik arz güvenliğini sağlamak ve enerji çeşitliliği ve ekonomik enerji kaynaklarına ulaşımı sağlamak maksadıyla enterkonnektör sistemi kurulması için çalışmaları yapmak.

g) Petrol ve doğalgaz altyapılarının tesisi ve bakımı, petrol ürünlerinin pazarlanması alanlarında projelerin belirlenmesi ve geliştirilmesi.

h) Kuzey Kıbrıs Türk Cumhuriyeti'nde yenilenebilir enerji projelerinin geliştirmek.

i) Enerji alanı ile ilgili seminerler, konferanslar ve toplantıların düzenlenmek.

j) Kuzey Kıbrıs Türk Cumhuriyeti'nde enerji ile ilgili kurumsal yapılanmanın başta Enerji dairesi kurulması ve enerji piyasa düzenlemesi için bir oluşum gerçekleştirilmesi için yasa taslağı hazırlamak.

k) Ekonomi ve Enerji Bakanlığında Alüminyum birimi Laboratuvarının geliştirilmesi için çalışmalar yapmak.

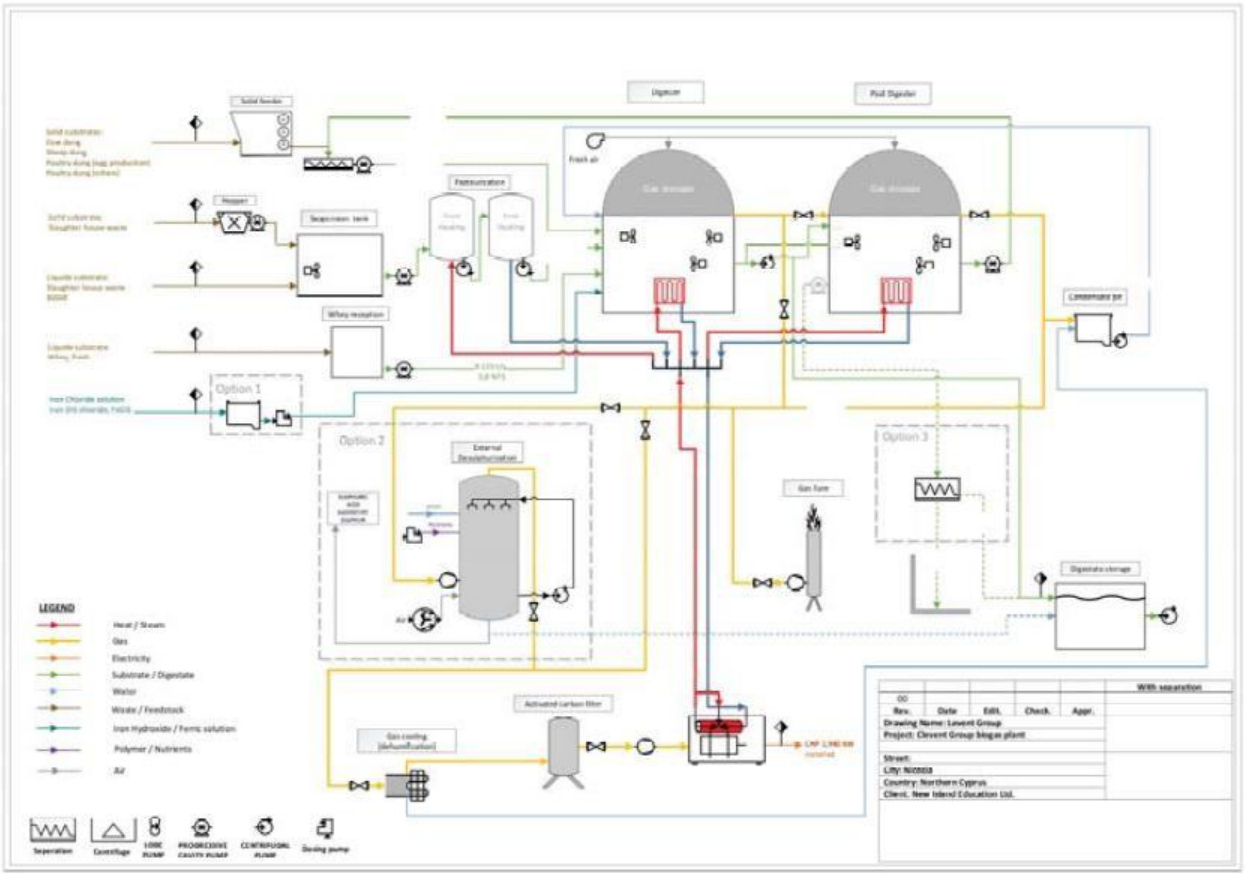
l) Enerji sektörü hedeflerinin idamesi ve Sekretarya tarafından hazırlanan gelişim raporlarının değerlendirilmek.

mülkiye protokolün uygulanmasına ilişkin önlemlerinin gözden geçirilmesi, raporlanması ve Program veya projelerin değerlendirilmesi, sonuç ve tavsiyeleri rapor olarak taraflara sunmak.

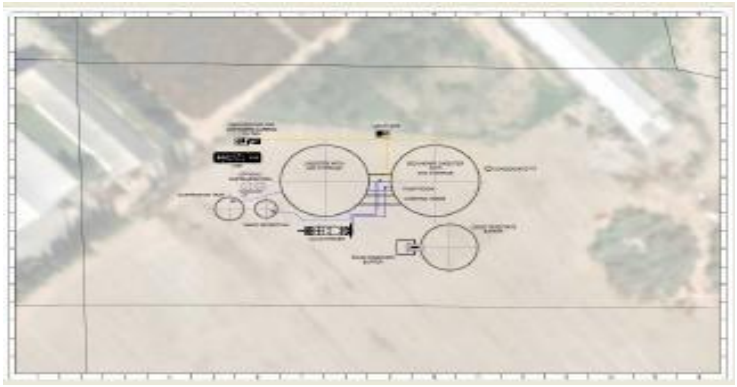
TC OEÇG TEKNİK HEYETİ
EŞ BAŞKANI

KKTC OEÇG TEKNİK HEYETİ
EŞ BAŞKANI

Appendix 2: Biogas Plant Project



Field Plan for Biogas Plant Project



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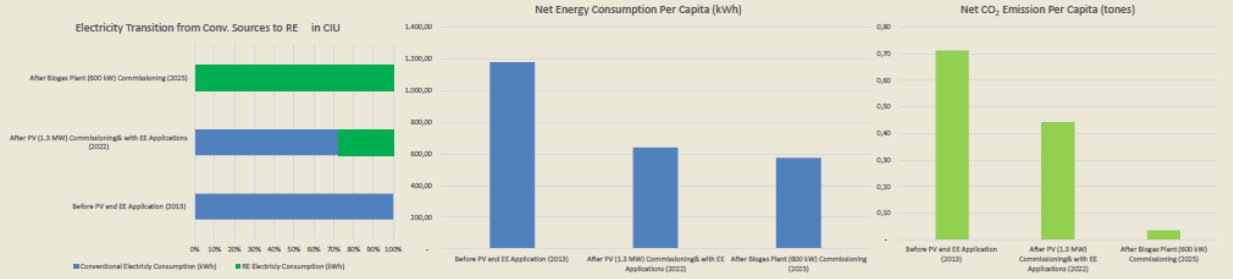
Analysis of Energy and Green House Gas Emissions of Cyprus International University

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/m^2)	Net Energy Consumption Per Capita (kWh)	Net CO_2 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	73.16	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	59.48	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	53.53	575.95	0.03



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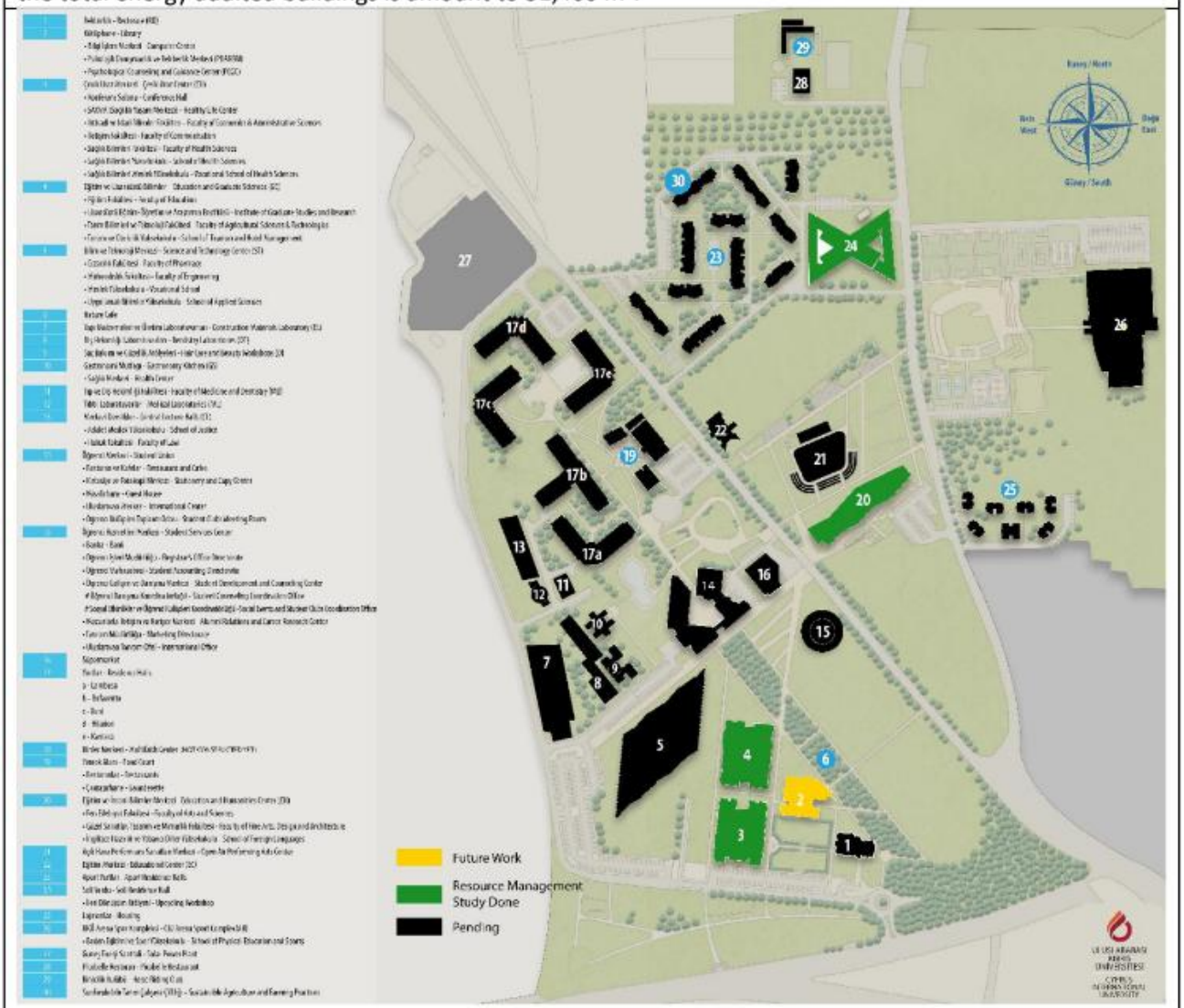
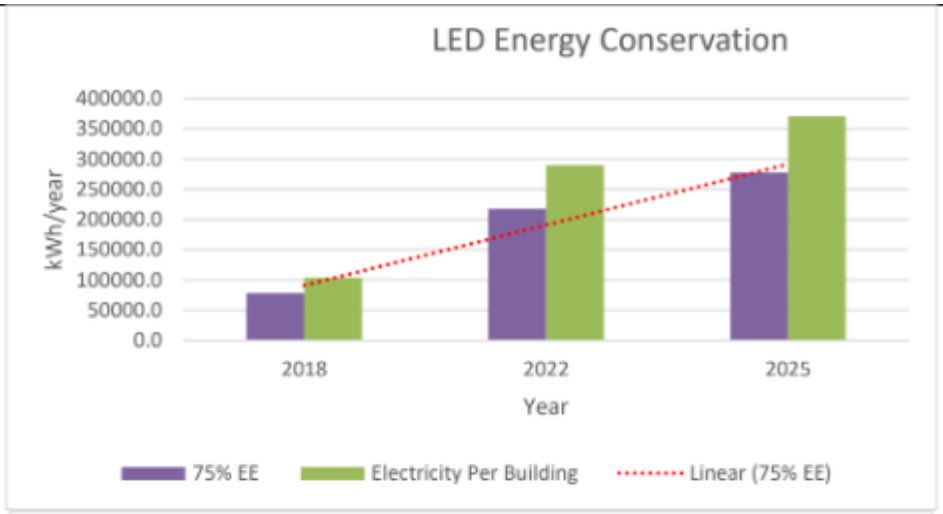
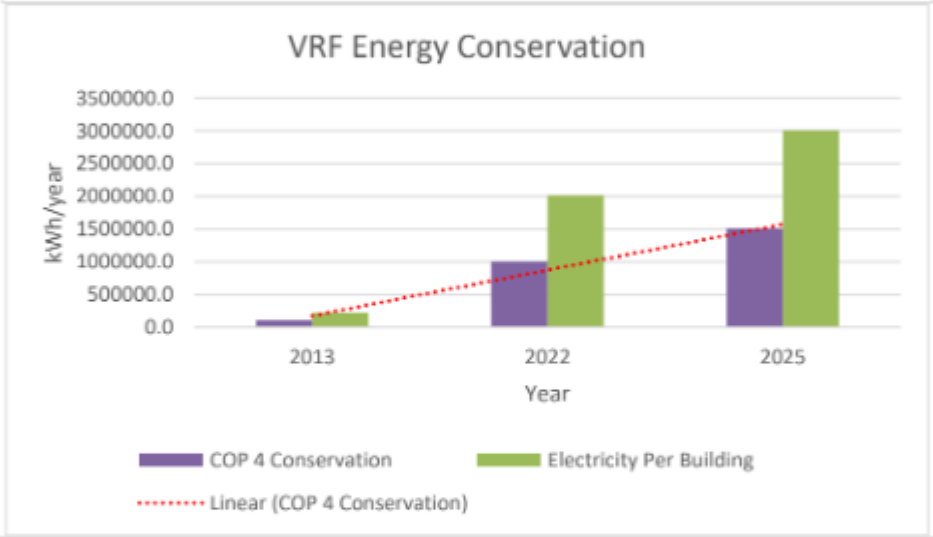
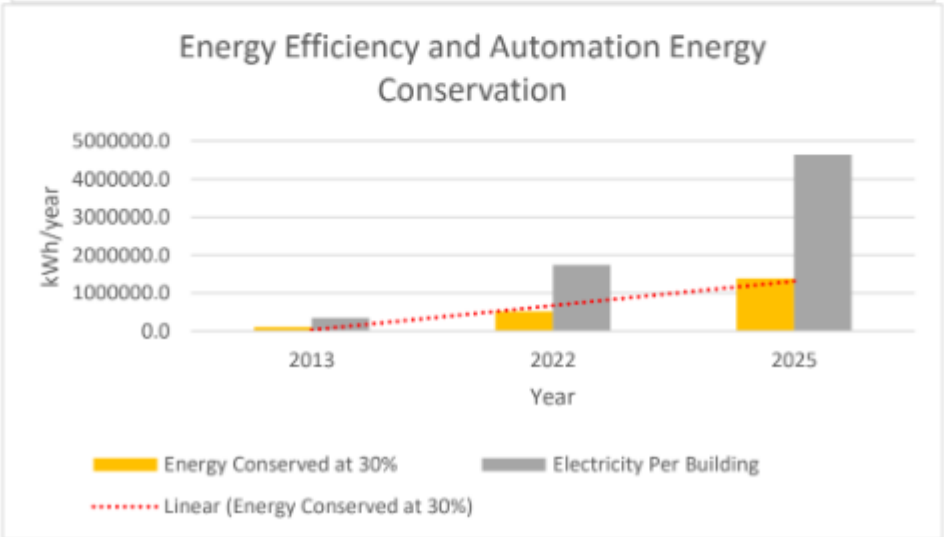
A Resource Efficiency (energy & water) strategy was settled in 2018 to renovate all buildings according to up-to-date standarts and one of the education buildings selected to be the sample. In this building, all renovations were carried out in accordance with ISO 50001 which is the goal of Sustainable 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^2.



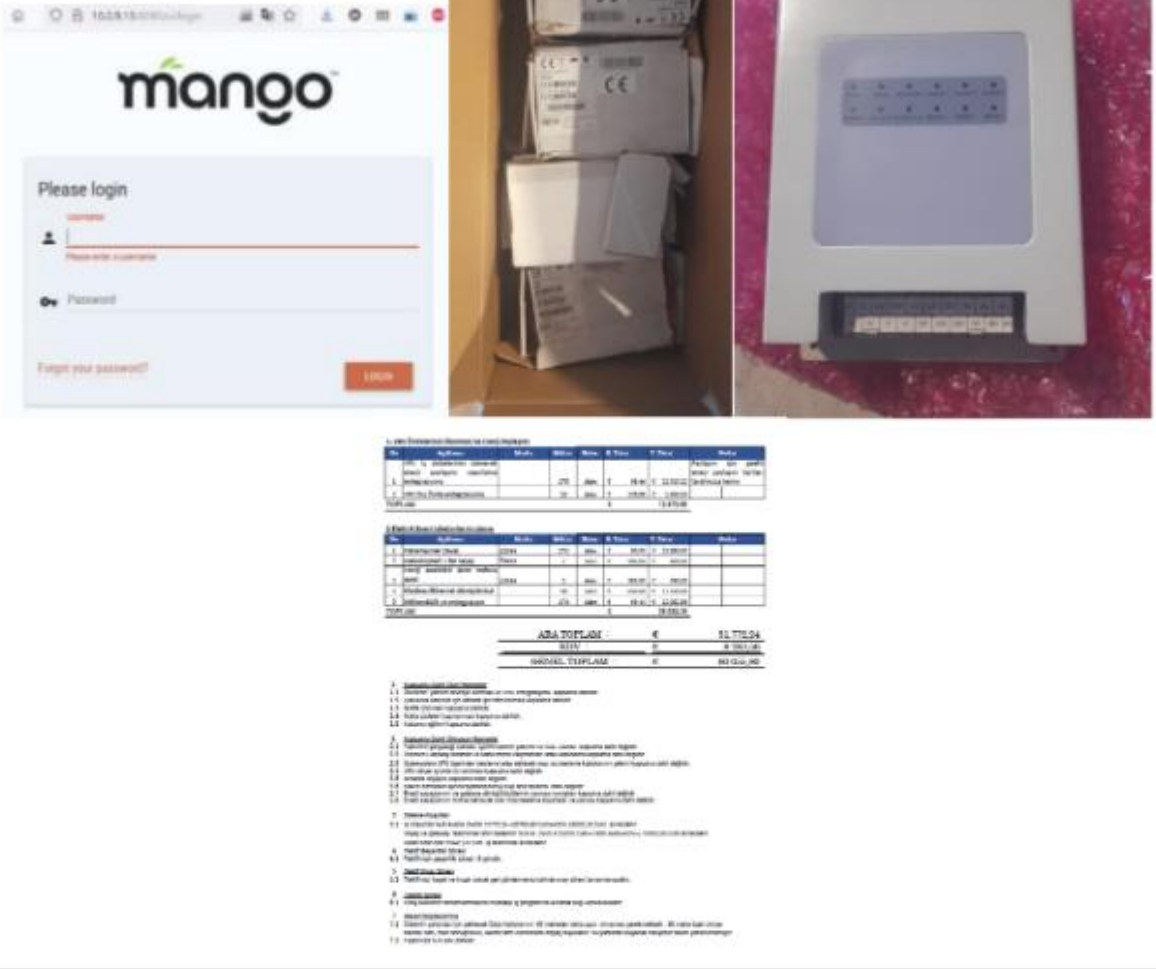
Energy Management Study for Soli, EH, CU and GE Building







Energy Saving Calculations and Projection from 2013 to 2025



Energy Monitoring and Control

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_2 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.

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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.

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

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Sustainable Campus Action Plan

Sustainable Campus and UI Greenmetrics

Work Package	Responsible Person	Supportive Staff/Groups	Admin
General Topics			
1. Report:			
a. Vision	**Majid Hashemipour, Serkan Abbasoğlu, Mete Boyacı**		Emre Soyer & Asil Azimli
b. Mission			
c. Goal			
e. Objectives			
f. Strategy			
2. Determine the key areas, measure the performance and compare it over time across other variables such as (a) building area m2;	**Emre Soyer & Hande Çiçek**		
a. Energy			
i. EE application			
ii. Use of LED lighting			
iii. Insulation			
b. Water Consumption			
c. Waste disposal: decrease the amount			
d. Transportation: Private vehicular transport & Shuttle Service			
e. Education: No. of courses related to sustainability			
f. No. of staff/students/visitors attend to green activities			
g. No. of green activities			
h. % of campus covered in vegetation			
i. No. of projects/partnerships with local authorities and community groups			
j. Greenhouse gas emitted (kg CO2 equivalent staff/student FTE) due to electricity, heat, transportation, ..etc.			
k. No. (length) of bicycle rack and/or bike stations			
l. No. of EV chargers			
3. Application to Associations related to Sustainability:	**Emre Soyer & Hande Çiçek**		
a. SDSA (International Sustainable Development Goals Accord for Universities)			
b. Foundation for Environmental Education (FEE) to receive Green Flag			
c. ULFS (University Leaders for a Sustainable Future)			
d. GUPES (Global Universities Partnership on Environment and Sustainability)			
e. AASHE (Association for the Advancement of Sustainability in Higher Education)			
4. Centers of Excellence: Energy & Environment programs at 2009	**Serkan Abbasoğlu & Rana Kıdak**		
5. Sustainable Innovation Center	**Emre Soyer**		
6. Promotion of Green Activities on the boards	**Mustafa Çağatay**		
a. Mitigation CO2 emissions due to PV systems			
b. Reduce in Plastic bottle use			
c. Green Events			
Education			
1. Increase the no. of compulsory and elective courses	**Banu Numan Uysal**		Erbuğ Çelebi
2. Increase the no. of publications related to Sustainability			
Infrastructure			
1. Green or Sustainable Procurement Policy	Purchase Department **(Asil Azimli)**		Asil Azimli & Erbuğ Çelebi
2. Decrease the consumption of copy papers by improving electronic services;			
a. Use of CIU mobile application/web site for announcements	Computer Center **(Mustafa Çağatay)** & Webmaster		
b. Electronic boards (TVs)	Computer Center **(Mustafa Çağatay)**		
c. Controlled Printer service			
Transportation & Parking			
1. Increase the physical activity in the campus	**Kozan Tunç**	1. Students for Sustainable Campus 2. Campus Management 3. Sustainable Energy Research Center	Asil Azimli & Emre Soyer
a. Bike stations			
b. Bicycle racks			
c. Walk way			
2. Meet the criteria for a Bicycle Friendly University	**Hande Çiçek**		
3. Manage parking demand to address long-term growth with smart parking systems and improved wayfinding	**Kozan Tunç**		
4. Increase passenger trips on University shuttle buses	**Emre Soyer**		
5. Use some EVs			
6. Car sharing/pooling	**Hande Çiçek**		
a. Maximize car-pooling			
7. Reduce 'single user' car journeys			
Energy & Water			
1. Sub-meter and smart-meter buildings, in order to track energy consumption, manage for maximum efficiency, and reduce carbon i	**Emre Soyer**	1. Project & Technical Affairs 2. Campus Management 3.Sustainable Energy Research Center 4. Students for Sustainable Campus 5. Engineering Students 6. Academic Staff 7. Sustainable Innovation Center	Emre Soyer & Asil Azimli
2. Connect all buildings to central monitoring and control system			
3. Design, construct and renovate greener buildings on campus that operate more efficiently, use less energy and water, and have r			
a. Start with Education and Humanities Center where a report is already prepared			
4. Apply Heat Insulation to all Buildings in the Campus			
a. Total area should be determined and evaluated			
5. Invest more feasible HVAC system, such as VRV, to all buildings.			
a. Çevik Uraz and STB are designed with VRV systems			
b. Arts and Social Sciences, Education and Humanities, Rector's Office and Library should be studied			
6. In addition to Çevik Uraz and STB, full automation system that controls HVAC, lighting...etc. should be considered to all Buildings			
7. Establish appropriate energy use intensity targets for all building types			
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** **Mehmet Şenol**		
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	**Emre Soyer**		
14. Think on installation of public dispensers in Faculty Buildings			
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 Soyer**	1. Students for Sustainable Campus 2. Academic Staff 3. Sustainable Innovation Center 4. Campus Management	Asil Azimli
2. Install green roofs to the roof of Rectorate Building			
3. Undertake tree planting of native species in addition to international species	**Agriculture Department**		
a. Plant a tree for each guest and share certificate as a gift			
b. Arboriculture: start around sewage treatment plant			
c. A report is prepared by Faculty of Agriculture			
4. Decrease waste disposal	**Emre Soyer**		
a. Develop and deliver a program of waste audits across campus to ensure (a) appropriate labelling (b) appropriate wastes are disposed of correctly			
5. Stop use of plastic bottles/cups	**Emre Soyer**		
a. Initially at Palm Inn, Lake view and Rector's office			
b. At Canteens and Cafes			
3. Promote the consumption of healthier and more sustainable food in Campus	**Gastronomy Department**		
a. Salad day			
b. Fruit day			
c. Sustainable food menu to Palm Inn			
6. Carry out a study on Cyprus Cuisine			
a. A pre-report is prepared by School of Tourism and Hospitality			

