ULUSLARARASI KIBRIS ÜNİVERSİTESİ
CYPRUS INTERNATIONAL UNIVERSITY

Evidence for UI GreenMetric Questionnaire

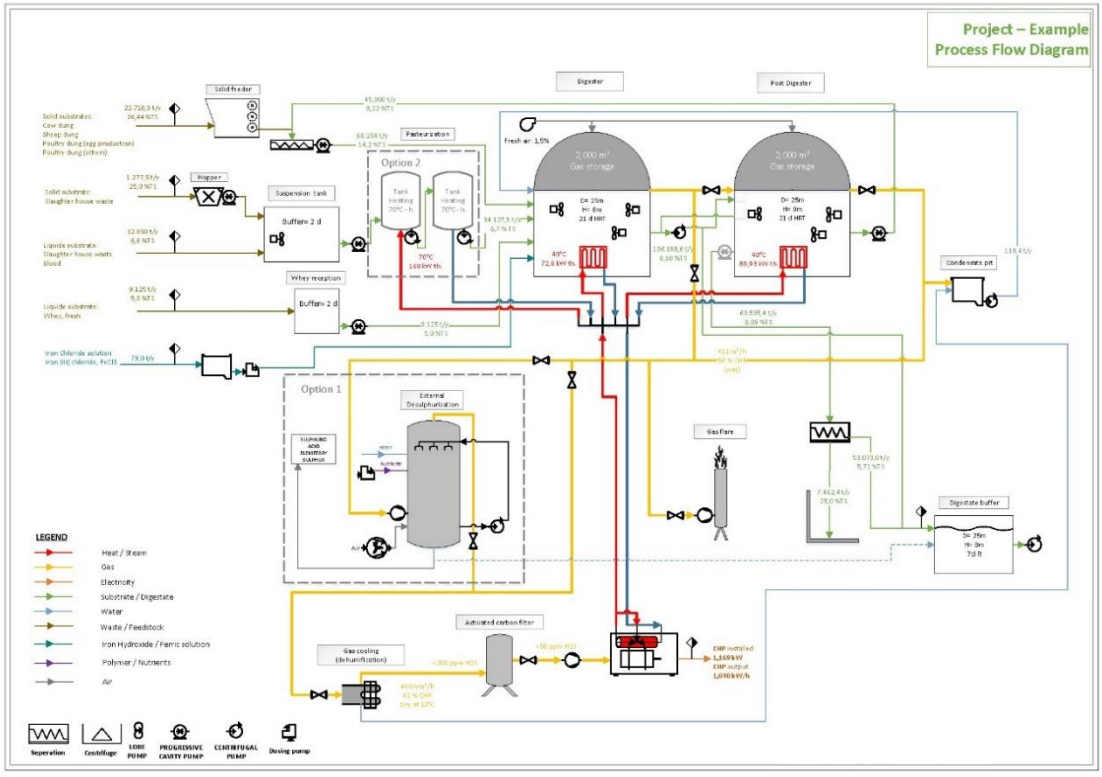
University : Cyprus International University
Country : North Cyprus - Turkiye
Web Address : www.ciu.edu.tr



Photovoltaic



Solar Thermal Panels









Biogas Project Infrastructure Construction









CIU CHP Plant for Biogas Project.

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Description:

Cyprus International University 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 complitely 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.

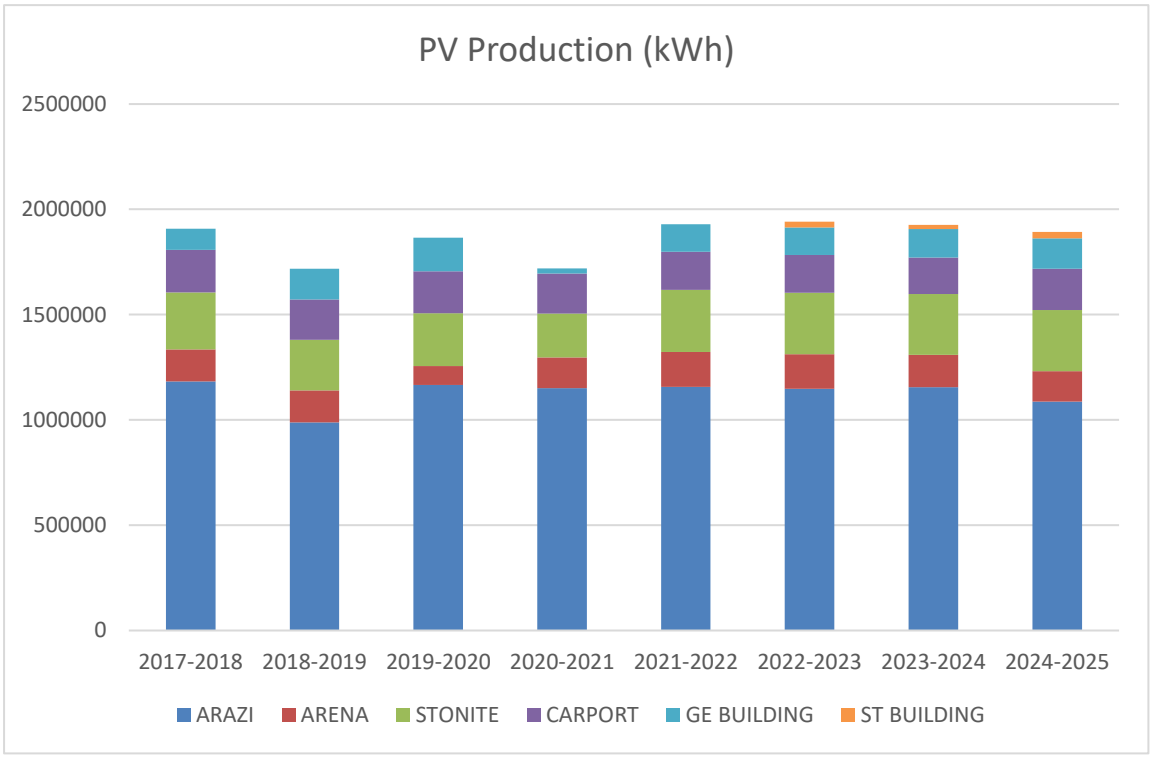
This year, as the biogas plant is not fully built, the CHP was ran as a test and fed into the grid. Over a 22 hour period, the CHP produced a total of **15289 kWh** of energy. At this magnitude, when the biogas plant fully finishes the construction, CIU will be completly net zero carbon campus through 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 2030. 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

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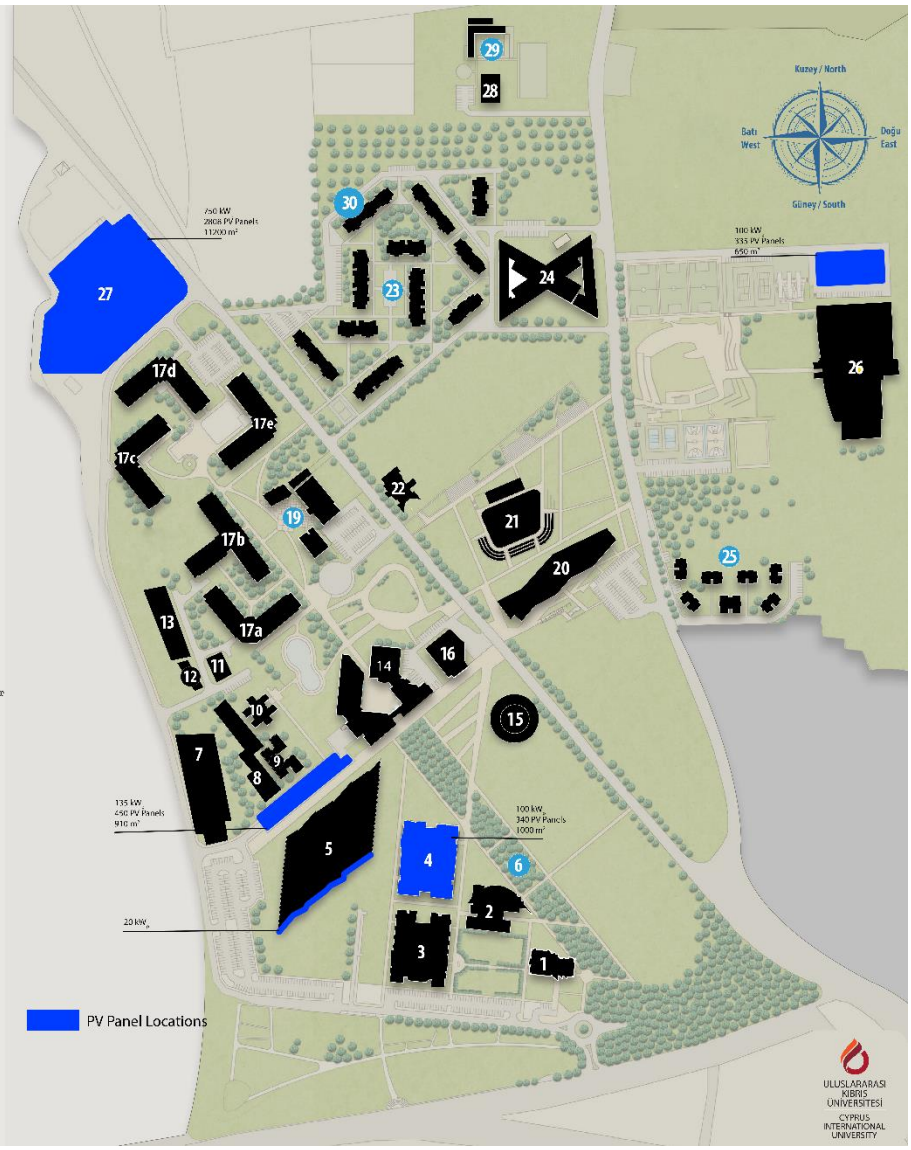
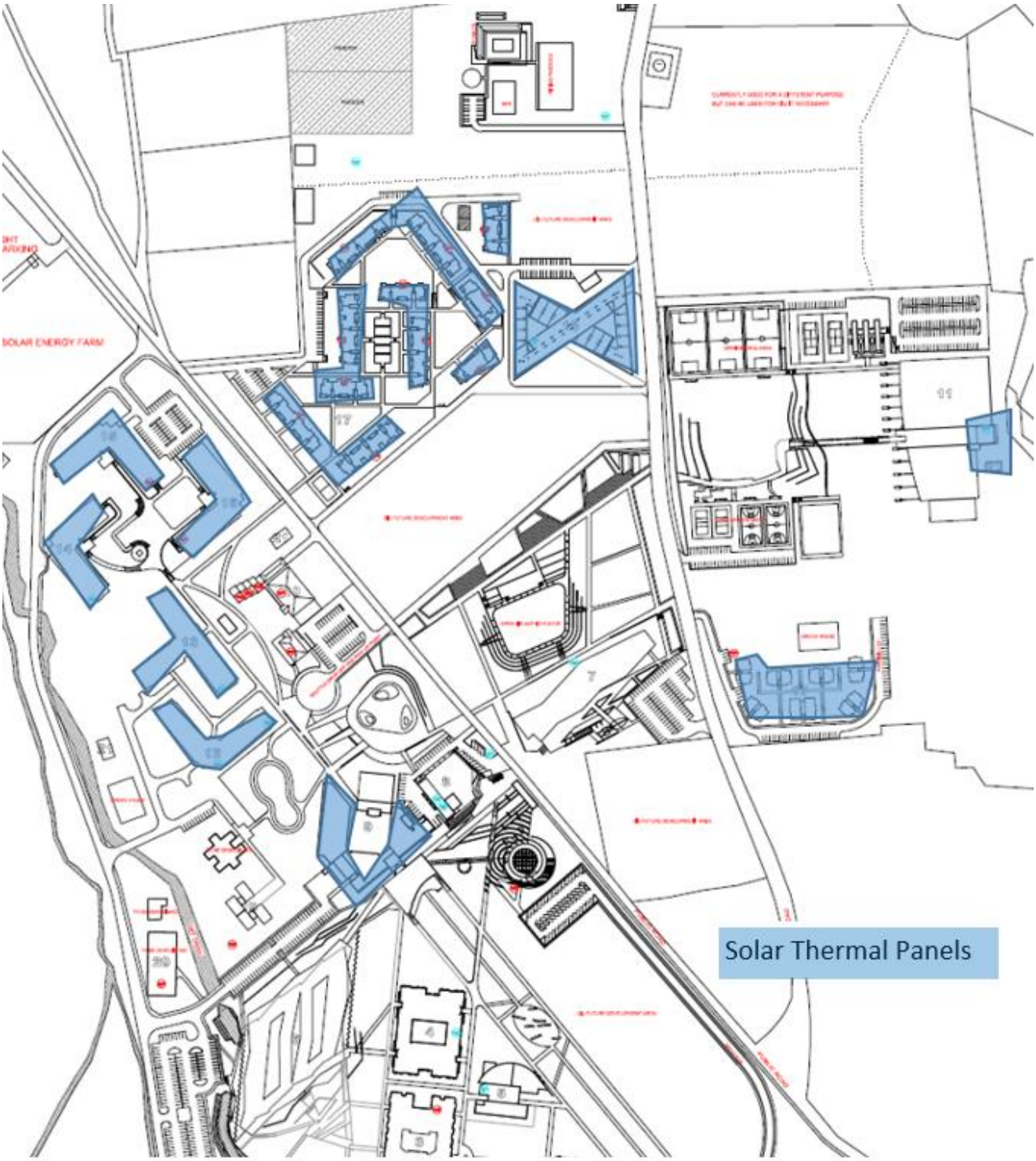
1 Rektörlük - Rectorate (RO)
2 Kütüphane - Library
• Bilgi İşlem Merkezi - Computer Center
• Psikolojik Danışmanlık ve Rehberlik Merkezi (PDAREM)
• Psychological Counseling and Guidance Center (PCGC)
3 Çevik Uraz Merkezi - Çevik Uraz Center (CU)
• Konferans Salonu - Conference Hall
• SAYAM (Sağlıklı Yaşam Merkezi) - Healthy Life Center
• İktisadi ve İdari Bilimler Fakültesi - Faculty of Economics & Administrative Sciences
• İletişim Fakültesi - Faculty of Communication
• Sağlık Bilimleri Fakültesi - Faculty of Health Sciences
• Sağlık Bilimleri Yüksekokulu - School of Health Sciences
• Sağlık Bilimleri Meslek Yüksekokulu - Vocational School of Health Sciences
4 Eğitim ve Lisansüstü Bilimler - Education and Graduate Sciences (GE)
• Eğitim Fakültesi - Faculty of Education
• Lisansüstü Eğitim-Öğretim ve Araştırma Enstitüsü - Institute of Graduate Studies and Research
• Tarım Bilimleri ve Teknoloji Fakültesi - Faculty of Agricultural Sciences & Technologies
• Turizm ve Otelcilik Yüksekokulu - School of Tourism and Hotel Management
5 Bilim ve Teknoloji Merkezi - Science and Technology Center (ST)
• Eczacılık Fakültesi - Faculty of Pharmacy
• Mühendislik Fakültesi - Faculty of Engineering
• Meslek Yüksekokulu - Vocational School
• Uygulamalı Bilimler Yüksekokulu - School of Applied Sciences
6 Nature Cafe
7 Yapı Malzemeleri ve Üretim Laboratuvarları - Construction Materials Laboratory (EL)
8 Diş Hekimliği Laboratuvarları - Dentistry Laboratories (DT)
9 Saç Bakımı ve Güzellik Atölyeleri - Hair Care and Beauty Workshops (U)
10 Gastronomi Mutfağı - Gastronomy Kitchen (GS)
• Sağlık Merkezi - Health Center
11 Tıp ve Diş Hekimliği Fakültesi - Faculty of Medicine and Dentistry (MD)
12 Tıbbi Laboratuvarlar - Medical Laboratories (NL)
13 Merkezi Derslikler - Central Lecture Halls (CL)
• Adalet Meslek Yüksekokulu - School of Justice
• Hukuk Fakültesi - Faculty of Law
14 Öğrenci Merkezi - Student Union
• Restoran ve Kafeler - Restaurant and Cafes
• Kırtasiye ve Fotokopi Merkezi - Stationery and Copy Center
• Misafirhane - Guest House
• Uluslararası Merkez - International Center
• Öğrenci Kulüpleri Toplantı Odası - Student Clubs Meeting Room
15 Öğrenci Hizmetleri Merkezi - Student Services Center
• Banka - Bank
• Öğrenci İşleri Müdürlüğü - Registrar's Office Directorate
• Öğrenci Muhasebesi - Student Accounting Directorate
• Öğrenci Gelişim ve Danışma Merkezi - Student Development and Counseling Center
• Öğrenci Danışma Koordinatörlüğü - Student Counseling Coordination Office
ii Sosyal Etkinlikler ve Öğrenci Kulüpleri Koordinatörlüğü - Social Events and Student Clubs Coordination Office
• Mezunlarla İletişim ve Kariyer Merkezi - Alumni Relations and Career Research Center
• Tanıtım Müdürlüğü - Marketing Directorate
• Uluslararası Tanıtım Ofisi - International Office
16 Süpermarket
17 Yurtlar - Residence Halls
a - Lambusa
b - Bufavento
c - Yuni
d - Hilarion
e - Kantara
18 Dinler Merkezi - Multifaith Center (NOT CONSTRUCTED YET)
19 Yemek Alanı - Food Court
• Restoranlar - Restaurants
• Çamaşırhane - Launderette
20 Eğitim ve İnsani Bilimler Merkezi - Education and Humanities Center (EH)
• Fen Edebiyat Fakültesi - Faculty of Arts and Sciences
• Güzel Sanatlar, Tasarım ve Mimarlık Fakültesi - Faculty of Fine Arts, Design and Architecture
• İngilizce Hazırlık ve Yabancı Diller Yüksekokulu - School of Foreign Languages
21 Açık Hava Performans Sanatları Merkezi - Open Air Performing Arts Center
22 Eğitim Merkezi - Educational Center (EC)
23 Apart Yurtlar - Apart Residence Halls
24 Soli Yurdu - Soli Residence Hall
• İleri Dönüşüm Atölyesi - Upcycling Workshop
25 Lojmanlar - Housing
26 UKÜ Arena Spor Kompleksi - CIU Arena Sport Complex(AR)
• Beden Eğitimi ve Spor Yüksekokulu - School of Physical Education and Sports
27 Güneş Enerji Santrali - Solar Power Plant
28 Picabelle Restoran - Picabelle Restaurant
29 Binicilik Kulübü - Horse Riding Club
30 Sürdürülebilir Tarım Çalışma Çiftliği - Sustainable Agriculture and Farming Practices



Solar Thermal Panels:
Whole Residential Zones of the CIU campus are using more than 300 solar thermal panels for hot water system and this energy is almost equal to 2268 MWh in a year.



Biogas:

By applying this project whey and animal manure wastes are going to be used to produce 411 m^3/h CH_4 that will generate 1169 kW Electricity by CHP system and 700 kW heat for external users.

