TIMES HIGHER EDUCATION / IMPACT RANKINGS EVIDENCE FACT FILE

SDG 7 / INDICATOR 7.4.3

Energy Efficiency Services for Industry

Cyprus International University • North Cyprus – Türkiye • www.ciu.edu.tr



SDG 7	7.4.3	9
Affordable and Clean Energy	Services to local industry	Services and projects documented

Purpose of this evidence file

This fact file answers THE Impact Rankings SDG 7 measure 7.4.3: "Does your university as a body provide direct services to local industry aimed at improving energy efficiency and clean energy (energy efficiency assessments, workshops, research renewable energy options)?" Cyprus International University (CIU) does, mainly through its Sustainable Energy Research Center (SERC): a load analysis and 650 kW rooftop solar plant for Levent Brick Factory, an 834 kW plant directed for Levent Sanayi, consultancy on solar plants for other organizations, a PV Expert Certification Programme, and energy efficiency audits, feasibility studies, workshops and applied research offered to industry.

INDICATOR 7.4.3

Services to local industry at a glance

CIU provides direct energy efficiency and clean energy services to local industry, led by the Sustainable Energy Research Center (SERC).

The question and the answer

Question. Does your university as a body provide direct services to local industry aimed at improving energy efficiency and clean energy (energy efficiency assessments, workshops, research renewable energy options)?

Answer: yes. Through SERC, CIU analysed the load of Levent Brick Factory and designed and supervised a 650 kW rooftop solar plant, directed an 834 kW plant for Levent Sanayi (2018), and coordinated or advised four further solar projects for outside organizations. It also runs a three-day PV Expert Certification Programme and offers energy efficiency audits, renewable feasibility studies, workshops and applied research to industry.

650 kW	2.0 MW	3 days
Rooftop solar PV, Levent Brick Factory, after a load analysis	Solar plants directed or advised by SERC for outside clients, 2015–2018	PV Expert Certification Programme for professionals

Headline result

Delivered work for industry. A named local manufacturer, Levent Brick Factory, received an on-site load analysis and a rooftop solar plant sized from it. SERC's project list adds an 834 kW plant for Levent Sanayi (2018).

Training and consultancy. SERC advises public and private bodies on solar plants (Civil Defense Organization, METU North Cyprus Campus, KKTCell, Levent College), advises the Ministry of Economy and Energy, and runs a PV Expert Certification Programme.

Support for new businesses. The CIU StartUp Studio (2023) and the CARBET research centre offer mentoring, workshops, executive programmes and advisory services, including for low-carbon start-ups.

Evidence scope

No.	Evidence item	Value / note
1	Flagship project: load analysis and rooftop solar PV at Levent Brick Factory, with photographs and the CIU source document	650 kW • Appendices 1–2
2	External solar projects directed or advised by SERC (Levent Sanayi, METU NCC, KKTCell, Levent College)	2.0 MW • 2015–2018
3	Consultancy for the Civil Defense Organization and the Ministry of Economy and Energy	SERC page
4	PV Expert Certification Programme (three days, with on-site practice)	SERC page
5	Industrial energy efficiency audits, renewable feasibility studies, workshops and applied research partnerships	Services offered
6	CIU StartUp Studio (2023) and CARBET advisory, executive programmes and workshops	7.4.5 document
7	SERC authorization for energy auditor and energy management certificates; training of energy efficiency experts	SERC news, 2021

SERVICE REGISTER

Direct services CIU provides to local industry

One delivered flagship project and eight further service lines, from the CIU source document, the SERC pages and the start-up support document.

No.	Service	Status
1	**Energy assessment and solar PV design** On-site load analysis and energy assessment of Levent Brick Factory, then design and supervised installation of a 650 kW rooftop solar plant sized from that analysis.	Delivered
2	**Solar plant direction and consultancy** SERC directed the 834 kW plant for Levent Sanayi (2018) and coordinated or advised plants for METU NCC (1 MW, 2015), KKTCell (50 kW, 2017) and Levent College (120 kW, 2018).	Delivered
3	**PV consultancy for public bodies** Consultancy on the PV project of the Civil Defense Organization and on the METU solar project.	Delivered
4	**PV Expert Certification Programme** Three-day programme: introduction, system definitions, techno-economic analysis and on-site practice.	Offered
5	**Industrial energy efficiency audits** Diagnostic services to identify energy waste in industrial processes, HVAC systems and lighting, with tailored recommendations.	Offered
6	**Renewable energy feasibility studies** Technical and economic assessment of solar, wind or other renewable options in industrial operations.	Offered
7	**Workshops and training** Specialised workshops for business owners and engineers on energy management, sustainable practices and the benefits of clean energy.	Offered
8	**Applied research partnerships** Joint applied research with industry to develop and test clean energy technologies suited to the regional context; SERC research covers PV, solar thermal, energy efficiency, policy and biogas.	Offered
9	**Start-up and business support** CIU StartUp Studio (2023): mentoring, networking, workshops, workspace. CARBET: advisory services, executive programmes, workshops and seminars on green economy and energy engineering.	Offered

Impact described for the flagship project

Clean energy generation. On-site solar power displaces grid electricity generated from fossil fuels.

Cost reduction. Lower long-term operational energy costs for the factory (no savings figure is stated).

Emissions mitigation. Contributes to decarbonising the local industrial sector.

SUPPORTING EVIDENCE • CIU WEBSITE

Projects and advisory work for outside organizations

Projects listed on the SERC projects page, with the flagship case from the CIU source document.

Year	Project	Client	Capacity	SERC role
2018	834 kW Solar PV Plant	Levent Sanayi (industrial)	834 kW	Directed by SERC
n/s	Rooftop solar PV after load analysis	Levent Brick Factory	650 kW	Analysis, design and supervision (CIU source document)
2018	Solar PV Plant, Levent College	Levent College	120 kW	Coordinated or advised
2017	Solar PV Plant, main building	KKTCell	50 kW	Coordinated or advised
2015	Solar PV Plant, North Cyprus Campus	Middle East Technical University	1 MW	Coordinated or advised
n/s	PV project	Civil Defense Organization	n/s	Consultancy

Capability	Detail
SERC training and certification	SERC's president states that it is authorized to issue energy auditor and energy management certificates, and that it aims to train qualified energy efficiency experts in Northern Cyprus and to advise decision makers on an energy efficiency law. **SERC news, 16 Nov 2021**
Demonstration building	SERC directed the Sustainable Technology Building (2014–2016): about 900 m^2 façade-integrated PV and 650 m^2 solar chimney, natural ventilation and shading, used as a showcase for energy-efficient design. **SERC projects page**
Policy advice	SERC advises the Ministry of Economy and Energy on renewable energy and energy policy; CIU is represented in the Joint Energy Working Group. **Policy development, 2024**
Energy events 2024	Technical trips, talks and an industry keynote (Danfoss Turkey) at the Sustainable Capstone exhibition; most events are aimed at students.

Points to strengthen before submission

Audits and workshops. Energy audits, feasibility studies and workshops are described as services offered, but no delivered audit, dated industry workshop or attendance list is documented. One dated example of each would answer "assessments" and "workshops" directly.

Figures to confirm. The CIU source document gives 650 kW for Levent Brick Factory and the SERC page gives 834 kW for Levent Sanayi; if they are the same site, say so. Add the year of the Levent Brick project and the expected energy and cost savings.

Client evidence. A short signed letter from Levent Brick Factory or another client, and the certificate programme dates and participants, would make the services verifiable. The authorization to issue energy auditor certificates is SERC's own statement (2021).

APPENDIX 1 • FLAGSHIP PROJECT

Levent Brick Factory: rooftop solar PV

Photographs from the source document



Rooftop solar PV system, aerial view



Installed solar PV panels

Evidence note

Photographs of the solar PV system designed and overseen by CIU for Levent Brick Factory.

APPENDIX 2 • SOURCE DOCUMENT

Energy efficiency services for local industry

Source document • 2 pages • sheet 1 of 2

Evidence for THE Impact Rankings Questionnaire

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

[7]

[7.4.3]

Cyprus International University (CIU) actively bridges the gap between academic expertise and industrial application to accelerate the clean energy transition in Northern Cyprus. CIU provide local businesses with direct, actionable services—including energy audits, feasibility studies, and technical implementation support—to enhance their energy efficiency and integrate renewable energy solutions, reducing their operational costs and environmental footprint.

Energy Efficiency Services for Local Industry:
Flagship Project: Levent Brick Factory Solar PV Integration
Service Provided: CIU conducted a comprehensive on-site load analysis and energy assessment for Levent Brick Factory, a significant local manufacturer.

Customized Solution: Based on the analysis, our team designed and oversaw the installation of a 650kW rooftop solar PV system.

Impact:

- **Clean Energy Generation:** The system directly displaces grid-based fossil fuel electricity with clean, on-site solar power.
- **Cost Reduction:** Significantly lowers the factory's long-term operational energy costs.
- **Emissions Mitigation:** Contributes to the decarbonization of the local industrial sector.

For Levent Brick Factory, load analysis is carried out and a 650kW solar PV system is installed on the roof of the factory according to this analysis. These installations can be seen below:



Document page 1 of 2

Evidence note

Copy of the CIU evidence document for measure 7.4.3, page 1 of 2.

APPENDIX 2 • SOURCE DOCUMENT • CONTINUED

Energy efficiency services for local industry

Source document • 2 pages • sheet 2 of 2



Our Broader Service Framework for Local Industry

The Levent Brick Factory project is a key implementation of our broader service strategy, which includes:

- **Industrial Energy Efficiency Audits:** We offer diagnostic services to identify energy waste in industrial processes, HVAC systems, and lighting, providing tailored recommendations for improvement.
- **Renewable Energy Feasibility Studies:** Our experts assess the technical and economic viability of integrating solar, wind, or other renewable technologies into industrial operations.
- **Workshops and Training:** We host specialized workshops for local business owners and engineers on topics such as energy management, sustainable practices, and the operational benefits of clean energy.
- **Research Partnerships:** We collaborate with industries on applied research projects to develop and test innovative clean energy technologies suited to the regional context.

By offering these direct services, CIU acts as a catalyst for sustainable economic growth. We empower local industries to become more competitive and resilient through reduced energy costs and improved environmental performance.

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Evidence note

Copy of the CIU evidence document for measure 7.4.3, page 2 of 2.