TIMES HIGHER EDUCATION / IMPACT RANKINGS EVIDENCE FACT FILE

SDG 7 / INDICATOR 7.2.1

Energy Efficiency Policy for Buildings

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



SDG 7	7.2.1	v.2
Affordable and Clean Energy	Energy efficiency policy for buildings	Current policy version

Purpose of this evidence file

This fact file documents the Energy Efficiency Policy of Cyprus International University (CIU), supporting THE Impact Rankings SDG 7 measure 7.2.1. The policy sets energy-efficiency requirements for all new construction and for the renovation (retrofit) of existing buildings. The policy document is reproduced in Appendix 1.

INDICATOR 7.2.1

Energy efficiency policy at a glance

CIU has a formal, Executive Board-approved policy that requires energy efficiency in all new buildings and in the renovation of existing buildings.

v.2	7	5
Policy version (updated 15 Jan 2023)	Policy guideline areas	Required standards named in the policy

Headline result

CIU's Energy Efficiency Policy (version 2, approved by the CIU Executive Board on 29 December 2020 and updated on 15 January 2023) applies to all new construction projects and to all renovation projects for existing buildings. It requires compliance with recognised energy-efficiency standards, prior energy audits, sustainable design, monitoring after completion, training and community engagement.

Evidence scope

No.	Evidence item	Value / note
1	Formal policy document with version, approving body and dates	4 pages • Appendix 1
2	Scope: new construction and renovation (retrofit) of existing buildings	Policy introduction and guideline 1
3	Energy-efficiency standards required for projects (LEED, BREEAM, ASHRAE 90.1, Energy Star, NGBS)	5 standards • guideline 1
4	Audit, design, planning, monitoring, training and engagement requirements	7 guideline areas • P1–P7
5	Governance: Energy Efficiency Oversight Committee and policy review	Implementation and review
6	Standards register: each standard, issuer, what it covers and how it applies	Standards page
7	Related CIU policy: EDGE, LEED, BREEAM and ISO 50001 energy management	CIU website

What the evidence demonstrates

- CIU has a documented, approved policy rather than an informal practice, with a stated version, approving body and update date.
- The policy covers both new buildings and retrofits: existing buildings are audited before renovation and fitted with monitoring systems afterwards.
- Requirements are specific: recognised standards, high-efficiency HVAC and LED lighting, better insulation and windows, water conservation and sustainable materials.
- Performance is followed up through smart meters, building management systems, annual energy reports and an oversight committee.

POLICY REGISTER • DOCUMENT DETAILS

Energy Efficiency Policy: document details

Key facts of the policy as stated in the document.

Item	Details
Title	Cyprus International University Energy Efficiency Policy
Version	v.2
Approved by	CIU Executive Board
Approval date	29 December 2020
Update date	15 January 2023
Applies to	All new construction and all renovation projects for existing buildings
Oversight	Energy Efficiency Oversight Committee
Review	Reviewed and updated periodically to reflect new technologies, campus feedback and changes in sustainability standards
Evidence	Appendix 1 • policy document (4 pages)

Policy statement

Cyprus International University is dedicated to fostering a sustainable and environmentally responsible campus. To support this commitment, the university has established a comprehensive policy ensuring that all new construction and existing buildings adhere to rigorous energy-efficiency standards.

Closing statement

By following these guidelines, CIU commits to ensuring that all new buildings and renovations of existing structures contribute to a sustainable future, aiming to enhance the campus environment while reducing overall energy consumption and carbon footprint.

POLICY REGISTER • GUIDELINE AREAS

What the policy requires

Seven guideline areas of the Energy Efficiency Policy, applying to new buildings and to retrofits of existing buildings.

Ref.	Guideline area	Key requirements	Evidence
P1	**Adherence to standards**	New construction and renovation must comply with recognised energy-efficiency standards, including LEED (Certified to Platinum), BREEAM, ASHRAE 90.1, Energy Star and the National Green Building Standard (NGBS).	Appendix 1
P2	**Energy audits and assessments**	A detailed energy audit of existing buildings before renovation or new construction: analysis of consumption patterns, recommended upgrades and renewable-energy options such as solar or wind.	Appendix 1
P3	**Sustainable design practices**	High-efficiency HVAC, LED lighting and plumbing; improved insulation, Energy Star-rated windows and doors; low-flow fixtures, greywater recycling and rainwater harvesting; locally sourced, recycled or certified (e.g. FSC) materials.	Appendix 1
P4	**Integrated planning**	Energy efficiency considered across the project lifecycle with architects, engineers and contractors; early energy modelling and simulation; regular design reviews using the Integrated Design Process (IDP).	Appendix 1
P5	**Continuous monitoring and evaluation**	Smart meters and building management systems (BMS) for real-time monitoring in new and existing buildings; regular performance evaluations; annual energy-performance reports.	Appendix 1
P6	**Education and training**	Ongoing training for staff, contractors and stakeholders on best practice, new technologies and materials, and operating strategies for energy-efficient buildings.	Appendix 1
P7	**Community engagement**	Information sessions and workshops on energy saving, student involvement in project planning and feedback, and student-led sustainability initiatives.	Appendix 1

Implementation and review

An Energy Efficiency Oversight Committee monitors compliance with the policy, provides guidance on best practice and evaluates project outcomes. The policy is reviewed and updated periodically to incorporate new technologies, feedback from the campus community and changes in sustainability standards.

STANDARDS REGISTER

Energy efficiency standards the policy requires

Guideline P1 requires every new build and renovation to comply with recognised energy-efficiency standards.

Standard	Issued by	What it covers (as described in the policy)	Applies to
LEED	U.S. Green Building Council	Leadership in Energy and Environmental Design. Certification levels from Certified to Platinum, rating energy use, water use, indoor conditions and sustainable site development.	New builds and renovations
BREEAM	BRE (United Kingdom)	Building Research Establishment Environmental Assessment Method. Assesses sustainability across building projects, including energy performance, resource management and environmental impact.	New builds and renovations
ASHRAE 90.1	ASHRAE	Sets minimum energy-efficiency requirements for buildings; the baseline energy requirement for projects.	New builds and renovations
Energy Star	U.S. EPA and Department of Energy	Certification for buildings that meet strict energy-performance criteria; Energy Star-rated windows and doors are also specified in guideline P3.	New builds and renovations
NGBS	NAHB / ICC	National Green Building Standard. Encourages energy-efficient, sustainable construction and renovation.	New builds and renovations

Other references in the policy

- Forest Stewardship Council (FSC) certification is cited for preferred sustainable materials (guideline P3).
- The Integrated Design Process (IDP) is the design-review tool for compliance checks (guideline P4).

How compliance is secured

- Before design: a detailed energy audit of existing buildings and early energy modelling and simulation (P2, P4).
- During design: regular design reviews with architects, engineers and contractors (P4).
- After completion: smart meters, building management systems and annual energy-performance reports (P5).
- Throughout: the Energy Efficiency Oversight Committee monitors compliance and evaluates project outcomes.

SUPPORTING EVIDENCE • CIU WEBSITE

Related CIU policies and building practice

Other documents published on www.ciu.edu.tr that reinforce the policy.

Document	Relevant content
CIU Energy and Divestment Policy (Board decision 2020–05/2)	Commits CIU to build highly energy-efficient buildings and to make existing buildings more efficient. Requires green building certification, such as EDGE, LEED or BREEAM, for renovated and new buildings. The Energy Management Committee of the Sustainable Energy Research Centre (SERC) implements the policy and is tasked with an ISO 50001-certified energy management system.
CIU Energy Divestment Policy (v.2)	Requires LEED or equivalent certification for new construction, renewable-ready buildings, life-cycle carbon assessment, and energy audits and retrofits of existing buildings. See fact file 7.2.6.
CIU Sustainability Action Plan	Sets out the building upgrade programme that implements the policy. See fact file 7.2.2.
Energy wastage identification	CIU audits one building each year; audits have covered the Education and Humanities Center and the Soli accommodation building. See fact file 7.2.5.
Sustainable Technology Building (SERC, 2014–2016)	Energy-efficient smart building with building-integrated PV, solar chimneys, natural ventilation and shading: a built example of the policy approach.

Sources

Policy:

https://ciu.edu.tr/sites/default/files/2024-11/ciu-energy-efficiency-policy-2023.pdf

• Energy and Divestment Policy:

https://ciu.edu.tr/sites/default/files/2022-06/CIU%20Energy%20and%20Divestment%20Policy.pdf

• SERC projects:

https://ciu.edu.tr/page/projects-10296

APPENDIX 1 • POLICY DOCUMENT

Energy Efficiency Policy (v.2)

Policy document • 4 pages • sheet 1 of 4



Cyprus International University

Energy Efficiency Policy

Version	Approved by	Date	Update Date
v.2	CIU Executive Board	29.12.2020	15 Jan. 2023

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Evidence note

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APPENDIX 1 • POLICY DOCUMENT • CONTINUED

Energy Efficiency Policy (v.2)

Policy document • 4 pages • sheet 2 of 4

Cyprus International University is dedicated to fostering a sustainable and environmentally responsible campus. To support this commitment, we have established a comprehensive policy ensuring that all new construction and existing buildings adhere to rigorous energy efficiency standards.

Policy Guidelines

1. **Adherence to Standards**:
   - All new construction and renovation projects for existing buildings must comply with recognized energy efficiency standards, including but not limited to:
     - **LEED (Leadership in Energy and Environmental Design)**: Certification levels from Certified to Platinum, based on performance in energy efficiency, water usage, indoor environmental quality, and sustainable site development.
     - **BREEAM (Building Research Establishment Environmental Assessment Method)**: A standard for assessing sustainability across building projects, focusing on energy performance, resource management, and environmental impact.
     - **ASHRAE Standards (American Society of Heating, Refrigerating, and Air-Conditioning Engineers)**: Compliance with ASHRAE 90.1, which sets minimum energy efficiency requirements for buildings.
     - **Energy Star Certification**: For buildings that meet strict energy performance criteria, promoting energy-efficient practices and technologies.
     - **National Green Building Standard (NGBS)**: This standard encourages the construction and renovation of buildings that promote energy efficiency and sustainability.
2. **Energy Audits and Assessments**:
   - Before any renovations or new construction, a detailed energy audit will be conducted for existing buildings to evaluate current energy use and identify areas for improvement. This assessment will include:
     - Analysis of existing energy consumption patterns.
     - Recommendations for energy-efficient upgrades.
     - Consider renewable energy options, such as solar or wind, to enhance energy performance.
3. **Sustainable Design Practices**:
   - All projects—whether for new buildings or renovations of existing structures—will incorporate sustainable design principles, including:
     - **Energy-efficient systems**: High-efficiency HVAC, LED lighting, and plumbing systems should be used in new and existing buildings.
     - **Building envelope improvements**: Enhancements to insulation (meeting or exceeding R-values specified in local codes), windows (using Energy Star-rated windows), and doors to minimize heat loss or gain.
     - **Water conservation measures**: Implement low-flow fixtures, greywater recycling systems, and rainwater harvesting systems throughout all buildings.

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Evidence note

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APPENDIX 1 • POLICY DOCUMENT • CONTINUED

Energy Efficiency Policy (v.2)

Policy document • 4 pages • sheet 3 of 4

- **Use of sustainable materials**: To reduce environmental impact, prefer locally sourced, recycled, or sustainably harvested materials, including those certified by organizations like the Forest Stewardship Council (FSC).

4. **Integrated Planning**:
   - Energy efficiency will be a key consideration throughout the lifecycle of all projects, with collaboration among architects, engineers, contractors, and relevant stakeholders. This includes:
     - Early integration of energy modeling and simulations during the design phase of new buildings and significant renovations to predict and optimize energy performance.
     - Regular design reviews for ongoing renovations to ensure compliance with energy efficiency goals, incorporating tools such as the Integrated Design Process (IDP).
5. **Continuous Monitoring and Evaluation**:
   - After project completion, new and existing buildings will be equipped with monitoring systems to track energy usage and performance. This includes:
     - Installation of smart meters and building management systems (BMS) for real-time energy monitoring.
     - Regular performance evaluations to ensure systems operate at optimal efficiency.
     - Annual reports on energy performance metrics to inform future projects and strategies.
6. **Education and Training**:
   - Ongoing education and training programs will be provided for staff, contractors, and stakeholders involved in renovating and constructing new and existing buildings. This will cover:
     - Best practices in energy efficiency and sustainability.
     - Updates on new technologies and materials in energy-efficient construction.
     - Workshops on operational strategies to maintain energy-efficient building performance.
7. **Community Engagement**:
   - We will actively engage students, faculty, and staff in discussions around energy efficiency initiatives. This includes:
     - Hosting informational sessions and workshops to raise awareness about energy-saving practices across the campus.
     - Involving students in project planning and feedback processes to cultivate a culture of sustainability.
     - Encouraging student-led sustainability initiatives and projects that align with energy efficiency goals.

Implementation and Review

- **Oversight Committee**: An Energy Efficiency Oversight Committee will monitor compliance with this policy, provide guidance on best practices, and evaluate project outcomes.

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Evidence note

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APPENDIX 1 • POLICY DOCUMENT • CONTINUED

Energy Efficiency Policy (v.2)

Policy document • 4 pages • sheet 4 of 4

- **Policy Review**: This policy will be reviewed and updated every [insert time frame, e.g., two years] to incorporate new technologies, feedback from the campus community, and changes in sustainability standards.

By adhering to these guidelines, CIU is committed to ensuring that all new buildings and renovations of existing structures significantly contribute to a sustainable future. We aim to enhance our campus environment while reducing our overall energy consumption and carbon footprint, leading by example in promoting energy efficiency and environmental stewardship.

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Evidence note

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