PRU
PÎRÎ REİS UNIVERSITY

2025

SUSTAINABLE DEVELOPMENT GOALS REPORT

SDG 12

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

Responsible Consumption and Production

2024–2025 Academic Year and 2025 Financial Year



Piri Reis University
sustainability.pirireis.edu.tr

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2024-2025 academic year and 2025 financial year (1 September 2024 – 31 December 2025); ongoing practices are also covered.

COMPANION PUBLICATIONS
Piri Reis University Sustainability Report 2025 and the other 16 SDG reports prepared according to the THE Impact Rankings indicators.

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This report presents Piri Reis University's policies, practices, research and activities under SDG 12, structured according to the THE Impact Rankings indicators and supported by evidence. Links in the indicator section lead to publicly available evidence; internal documents are available on request.

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

INSTITUTIONAL PROFILE

Piri Reis University at a Glance

Piri Reis University (PRU) is a foundation university established by the Turkish Maritime Education Foundation (TÜDEV), which was founded in 1993 by leading representatives of the maritime sector with the support of the İMEAK Chamber of Shipping; the University acquired legal personality upon the publication of Law No. 5733 in the Official Gazette on 8 February 2008. Its roots go back to the TÜDEV Maritime Education Centre, which trained 2,034 officers between 1995 and 2012.

Guided by its vision "to be a specialised university that is a pioneer in Türkiye and respected worldwide, adding value to the sector by striving for excellence in education and research in every maritime-related field", PRU explicitly commits in its mission to educating individuals who have embraced the Sustainable Development Goals; "Social Responsibility, Sustainability and Environmental Awareness" and "Respect for Diversity and Human Rights" are among the institution's core values.

The University provides education through its Faculties of Maritime Studies, Engineering, Economics and Administrative Sciences, Law, and Arts and Sciences, its Maritime Vocational School and its Graduate Institute, on the Sea Campus and the Preparatory Campus on the Marmara Sea coast in Tuzla. The Sea Campus was designed as a BREEAM-certified "Green Campus" and features a trigeneration plant, greywater and rainwater recovery systems and seawater-based cooling infrastructure.

PRU is the only Turkish foundation university that is a member of the International Association of Maritime Universities (IAMU). It was granted institutional accreditation under the YÖKAK Institutional Accreditation Programme on 21 March 2025, and its Maritime Simulators Centre was accredited by The Nautical Institute as an approved Dynamic Positioning (DP) Training Centre on 22 October 2024.

Piri Reis University in Numbers

6,330
total students (2025): 2,171 associate degree, 4,004 undergraduate, 155 postgraduate

210
full-time academic staff (+109 hourly-paid lecturers)

168
full-time administrative staff

5 + 1 + 1
faculties, vocational school and graduate institute

15
maritime simulators (including 3 full-mission bridges)

6
research and application centres (PRUSAM, DENEKAM, PUSEM, etc.)

42
student clubs, 1,996 club members

5 + 4
national and international patent applications in 2025

29%
share of women among students placed in 2025-26 (2014-15: 14%)

Source: Institutional Self-Evaluation Report (KİDR) 2025 (as of 31 December 2025) and sustainability.pirireis.edu.tr. The share of women is based on the table of placed students published on the sustainability website.

SUSTAINABILITY GOVERNANCE

Our Sustainability Approach and Reporting

Piri Reis University's 2023-2027 Strategic Plan is structured in alignment with the United Nations Sustainable Development Goals (SDGs). For each SDG, the sustainability website publicly sets out the links with the Strategic Plan objectives (excellence of the learning environment, research quality, industry–university cooperation, institutional culture and becoming the best university in maritime) together with additional actions.

The Sustainability Research and Application Center (PRUSAM), established in 2024, works on energy management, decarbonisation, sustainable port operations and digitalisation in line with Net Zero targets; the Center's regulation lists the preparation of the sustainability report and similar outputs among its duties. The Social Contribution Commission, chaired by the Rector, and the Quality Coordination Office contribute to monitoring sustainability activities and disseminating them across the institution.

The University's Climate Change Mitigation and Action Policy Document (2023-2027) sets out the goal of becoming a carbon-neutral university by 2050. Campus operations are assured through the ISO 50001:2018 Energy Management System (2024-2027), the ISO 9001:2015 Quality Management System and the Zero Waste Certificate (February 2025).

PRU took part in the Times Higher Education (THE) Impact Rankings 2025 with all 17 SDGs and was placed in the 1501+ band overall. Its strongest results were in SDG 14 Life Below Water and SDG 15 Life on Land (401–600), followed by 601–800 in SDGs 6, 8, 12 and 16, 801–1000 in SDGs 5, 9, 11 and 13, 801+ in SDG 2, 1001+ in SDGs 1, 7 and 10 and 1501+ in SDGs 3, 4 and 17. This report series has been prepared separately for all 17 SDGs based on the THE Impact Rankings indicators and is published together with the general Sustainability Report.

Scope of this report

- Reporting period: 2024-2025 academic year and 2025 financial year (1 September 2024 – 31 December 2025). Ongoing practices are also covered.
- Scope: Sea Campus and Preparatory Campus; all academic and administrative units, research centres and student clubs.
- Data sources: activities published on sustainability.pirireis.edu.tr, pirireis.edu.tr and unit subdomains, KİDR 2025, the 2023-2027 Strategic Plan, institutional directives and policies, and final reports of Scientific Research Projects (BAP).
- Structure: Indicators are organised according to the THE Impact Rankings methodology; publicly accessible evidence links are provided under each indicator.

SDG 12 · RESPONSIBLE CONSUMPTION AND PRODUCTION

A zero waste campus and a culture of responsible consumption

Having established a Zero Waste Management System, obtained the Zero Waste Certificate in 2025, PRU makes responsible production and consumption part of its institutional culture through its waste directive, equal opportunity in procurement and awareness training.

The Waste Directive regulates the separate collection at source, temporary storage, transport and disposal of chemical and biological waste, as well as the keeping of a waste mass balance and an input inventory. On campus, waste is separated by type by the cleaning service provider and delivered separately to the municipality, and paper consumption is reduced through shared printers and a quota system.

The Quality Coordination Office provided Zero Waste Management training to all academic and administrative staff; a recycling seminar was held during Zero Waste Week, and an upcycling workshop was organised with the Community Volunteers Club. BAP projects on the strategic use of ESG factors in the maritime sector and on wastewater treatment using agricultural waste ash contribute to the circular economy.

17
related activities and practices (all periods)

7
activities in the reporting period (Sep 2024 – Dec 2025)

11
related research projects (BAP, TÜBİTAK, EU)

Feb 2025
Zero Waste Certificate obtained

Highlights of the period

- Zero Waste Certificate (February 2025)
- Waste Directive: separate collection of hazardous waste at source and waste mass balance
- Zero Waste Management training for all staff (February 2025)
- THE Impact Rankings 2025 SDG 12: 601-800 band

THE IMPACT RANKINGS INDICATORS

Indicators, Explanations and Evidence

This section summarises Piri Reis University's policies, practices and activities against the indicators of the Times Higher Education (THE) Impact Rankings methodology for SDG 12. Evidence for each indicator is provided with links.

12.2 Responsible sourcing and waste policies

12.2.1 Ethical and equal-opportunity procurement

Purchasing is carried out under the Tender Regulation, and equal opportunity is ensured in supplier selection through tendering. Since 2024, the Pratis electronic bid collection module has made it possible to reach more suppliers. The Energy Policy commits to the procurement of energy-efficient products and services.

EVIDENCE

- Tender Regulation – https://pirireis.edu.tr/wp-content/uploads/2026/07/IHALE-YONETMELIGI.pdf
- Supplier selection is carried out through tenders, ensuring equal opportunity – https://sustainability.pirireis.edu.tr/etkinlikler/tedarikci-secimlerinde-ihale-yapilmaktadir-firsat-esitligi-saglanmaktadir/
- The Pratis quotation collection module has been in use since 2024 – https://sustainability.pirireis.edu.tr/etkinlikler/pratis-teklif-toplama-modulu-2024-itibari-ile-devreye-alinmistir/
- Quality Certificates: ISO 9001, ISO 50001, Energy Policy – https://pirireis.edu.tr/hakkimizda/kalite/kalite-sertifikalari/

12.2.3 Hazardous waste disposal

The Waste Directive regulates the separate collection at source, temporary storage, transport and legally compliant disposal of chemical, biological and other hazardous waste generated in laboratories and workshops.

Medical waste is disposed of under the medical-waste protocol signed with Istanbul Metropolitan Municipality.

EVIDENCE

- Waste Directive – https://pirireis.edu.tr/wp-content/uploads/2026/06/PIRI-REIS-UNIVERSITESI-ATIK-YONERGESI.pdf
- Internal document: IMM Medical Waste Protocol (2024) (available on request)

12.2.4 Measuring waste and recycling

The Zero Waste Management System established under the Zero Waste Regulation, together with the waste mass balance and input inventory required by the Waste Directive, enables waste to be monitored by type.

The Waste Management Policy (POL.KLT.08, 15 September 2025) commits to reducing waste at source, collecting waste separately by type, supporting reuse, recycling and recovery, managing hazardous waste in line with legislation and monitoring and continually improving waste management performance.

EVIDENCE

• News: Zero Waste Certificate awarded to the University (24 February 2025) – https://pirireis.edu.tr/haberler/universitemiz-sifir-atik-belgesini-almaya-hak-kazandi/

• Waste Directive – https://pirireis.edu.tr/wp-content/uploads/2026/06/PIRI-REIS-UNIVERSITESI-ATIK-YONERGESI.pdf

• Waste Management Policy (POL.KLT.08) – https://sustainability.pirireis.edu.tr/politika/atik-yonetimi-politikasi/

12.2.7 Extending policies to outsourced service providers

Campus waste is separated according to its characteristics by the staff of the cleaning service provider, collected at on-campus waste stations and delivered separately to the municipality.

The catering contractor separates waste into metal, plastic, glass, household waste and used oil and delivers used oil to a licensed firm; the cleaning contractor collects waste according to the University Waste Management Plan and delivers it to authorised recovery or disposal firms (service procurement specifications).

EVIDENCE

• Waste separation – https://sustainability.pirireis.edu.tr/etkinlikler/coplerin-ayristirilmasi/

• Internal document: Technical specifications for catering and cleaning services (available on request)

12.4 Sustainability reporting

12.4.1 Publication of a sustainability report

This Sustainability Report and the series of 17 SDG reports are made publicly available. The Regulation of the Sustainable Maritime Research and Application Center defines the preparation of a sustainability report among the Center's duties.

EVIDENCE

• Sustainability website – https://sustainability.pirireis.edu.tr/

• Regulation of the Sustainable Maritime Research and Application Center – https://pirireis.edu.tr/wp-content/uploads/2026/07/SURDURULEBILIR-DENIZCILIK-UYGULAMA-VE-ARASTIRMA-MERKEZI-YONETMELIGI.pdf

Awareness and education

Awareness Zero waste and circular economy awareness

The Quality Coordination Office provided Zero Waste Management training to all staff (February 2025), and a Sustainable Fashion seminar was held as part of the Faculty of Law's LAW615 course. The Community Volunteers Club held an Upcycling Workshop.

EVIDENCE

- Zero Waste Management Training Held (28 February 2025) – https://sustainability.pirireis.edu.tr/etkinlikler/sifir-atik-yonetimi-egitimi-gerceklestirildi/
- A Seminar Bringing Together Fashion and Law from Piri Reis University Faculty of Law: “Sustainable Fashion” (30 May 2025) – https://sustainability.pirireis.edu.tr/etkinlikler/piri-reis-universitesi-hukuk-fakultesinden-moda-ve-hukuku-bulusturan-seminer-surdurulebilir-moda/
- TGK – upcycling workshop – https://sustainability.pirireis.edu.tr/etkinlikler/tgk-ileri-donusum-atolyesi/

ACTIVITIES AND EVENTS

Our Activities under SDG 12



Piri Reis University continues its EU-wide leadership in sustainable development projects

13 October 2025 • DENEKAM – Maritime Economics Research and Application Center

The news item describes Piri Reis University's contribution to integration with the EU in the field of green and digital transformation through the EU projects it carries out. Within the MINE-EMI project, completed under PRU's coordination and recommended to the EU as a 'Best Practice', an International Joint Master's Programme (JMP) on sustainability in maritime was prepared; through the BLUE4SEAS project, an original curriculum focusing on marine pollution and environmental protection was developed and incorporated into the course programme. The GREENPORT project, also coordinated by PRU with the participation of 10 institutions from 8 countries, is developing training modules aimed at reducing the environmental impact and emissions of port services within the framework of the European Green Deal.

SDG 17 SDG 13 SDG 12

Source: https://denekam.pirireis.edu.tr/duyurular/piri-reis-universitesinin-surdurulebilir-kalkinma-projeleri-konusunda-ab-capinda-onderligi-devam-ediyor/



A Seminar Bringing Together Fashion and Law from Piri Reis University Faculty of Law: "Sustainable Fashion"

30 May 2025

The "Sustainable Fashion Seminar", organised by the Piri Reis University Faculty of Law within the LAW615 course, was delivered by Prof. Dr. Barbara Pozzo of the University of Insubria, Italy, who addressed the environmental and ethical problems currently facing the fashion industry from a legal perspective.

SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/piri-reis-universitesi-hukuk-fakultesinden-moda-ve-hukuku-bulusturan-seminer-surdurulebilir-moda/



Sustainable fashion

29 May 2025 • Faculty of Law

On 29 May 2025, Prof. Dr. Barbara POZZO was hosted at our University to give a talk on "Sustainable Fashion" as part of the Erasmus Seminar 2025 event. The event was open to all students and academic staff.

SDG 12 SDG 8

Source: https://hukuk.pirireis.edu.tr/etkinlikler/sustainable-fashion/



Clean Sea session

16 May 2025 • PRUSAM – Sustainability Research and Application Center

At the session we held at the Piri Reis University Environmental Information Centre (EIC) on 16 May 2025, we discussed sea cleaning with representatives of our University's student clubs. At this meeting, where activities carried out within the LEARN4SEA project were also discussed, we talked about activities we could carry out in October 2025, when the University's 2025-2026 academic year begins. We once again observed the commitment to protecting our seas among the student clubs of Piri Reis University, Türkiye's first and only maritime-themed university.

SDG 14 SDG 12

Source: https://prusam.pirireis.edu.tr/etkinlikler/temiz-deniz-oturumu/



Zero Waste Management Training Held

28 February 2025

Training on "Zero Waste Management", organised by the Quality Coordination Office, was held at Piri Reis University. We thank all our academic and administrative staff for their participation.

SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/sifir-atik-yonetimi-egitimi-gerceklestirildi/



Our University has earned the Zero Waste Certificate

24 February 2025

Our University has earned the Zero Waste Certificate by establishing a Zero Waste Management System in accordance with the Zero Waste Regulation, published in Official Gazette No. 30829 dated 12/07/2019 and in force since then.

SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/universitemiz-sifir-atik-belgesini-almaya-hak-kazandi/



Sectoral innovation trends and sustainability

10 October 2024 • Faculty of Engineering – Innovation Club

The INNOXCAREER Summit on "Sectoral Innovation Trends and Sustainability" was held on 24-25 April in the Rıdvan Kartal Conference Hall by the Innovation Club, run under the leadership of Industrial Engineering Department students. The summit, moderated by an artificial intelligence host, welcomed executives from companies such as the Coca-Cola Company, Mitsuba, Nestlé, LC Waikiki, Trendyol, Egebant and Tumurly.

SDG 12 SDG 9 SDG 8

Source: https://muhendislik.pirireis.edu.tr/etkinlikler/sektorel-inovasyon-trendleri-ve-surdurulebilirlik/



Sustainable campus

Definition of a sustainable campus: a campus that is environmentally conscious, uses resources efficiently, minimises its waste and contributes to the SDGs through interaction with society; it includes renewable energy, water saving, zero waste management and the expansion of green spaces. Image: Block A building.

SDG 7 SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/surdurulebilir-kampus/

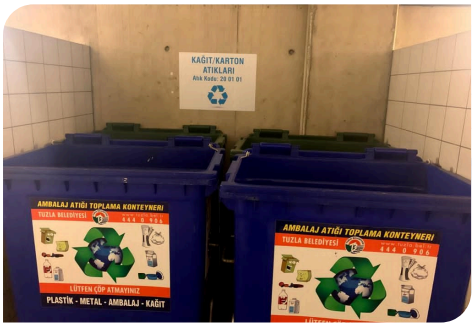


Treatment system

A greywater and rainwater treatment system is used at our University. In greywater recovery treatment systems, filtration is applied first. Water passed through fine-pored filters is cleared of all suspended solids such as hair, skin, nail and food particles.

SDG 6 SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/aritma-sistemi-2/



Zero waste

The Zero Waste approach (preventing waste, using resources efficiently, reducing waste, effective collection and recycling) is defined; the page states that, at the time of writing (2024), the University had applied to the official authorities for the Zero Waste Certificate and the process was ongoing (the certificate was obtained in February 2025).

SDG 12 SDG 15

Source: https://sustainability.pirireis.edu.tr/etkinlikler/sifir-atik/



Waste separation

Waste within our University is collected by staff of the contracted cleaning company, separated according to its type and transported to the relevant compartments of the waste stations on campus. The stored waste is handed over separately every week to the municipal waste collection teams that come to our University.

SDG 12 SDG 15

Source: https://sustainability.pirireis.edu.tr/etkinlikler/coplerin-ayristirilmasi/



Trigeneration

Our University has a trigeneration system. We have 2 natural gas engines with a capacity of 800 kVA each. These engines produce electricity and hot water, and chilled water for the buildings is obtained through absorption chillers. In addition, the cooling water of our gas engines and the condenser sources of the chillers are supplied with water drawn from the sea.

SDG 7 SDG 12

Source: https://sustainability.pirireis.edu.tr/etkinlikler/trijenerasyon/

RESEARCH AND PROJECTS

Research Projects Related to SDG 12

Below are research projects related to SDG 12 that were assessed as highly or moderately relevant to sustainability. They were compiled from final reports of Scientific Research Projects (BAP) and from BAP, TÜBİTAK and EU project records. 10 featured projects out of 11 are shown.

BAP-2024-07 · BAP · 2023-2024 (1st call)

Seafood and Culinary Heritage in Fishing Villages: Sustainable Gastronomic Tourism Opportunities

Asst. Prof. Dr. Uğur KAÇAN · Maritime Vocational School (MVS)

Fieldwork was carried out in seven fishing villages on the Aegean, Marmara and Black Sea coasts, and a thematic content analysis was conducted using in-depth interviews with 18 participants and observation data. The findings were grouped under the themes of traditional fishing, sustainability awareness, economic difficulties, gastronomic heritage, tourism potential, infrastructure deficiencies, the role of women and the tension of modernisation. Supporting women's labour, environmental awareness and local development through holistic strategies is recommended, and women's cooperative models are proposed.

OUTPUTS

Article in Journal of Tourism & Gastronomy Studies; A digital book based on local recipes and narratives is planned

SDG 14 SDG 8 SDG 5 SDG 11 SDG 12

BAP-2024-02-01 · BAP · 2023-2024 (2nd call)

Strategic Use of ESG Factors in the Maritime Sector: A 10-Year Study

Prof. Dr. Aykut ARSLAN · Faculty of Economics and Administrative Sciences

The study investigated how maritime companies differ in terms of sustainability (ESG) and how sustainability ratings are used for strategic purposes. Using Refinitiv data, the 10-year ESG progress of firms was examined through time-series analyses.

OUTPUTS

'Strategic Typologies and ESG Integration in Maritime Firms...' – Maritime Policy & Management (SSCI Q1; under peer review); 'Strategic Use of ESG Scores in Maritime Companies...' – Business Strategy and the Environment (SSCI Q1; under review); 'ESG Performance and Financial Outcomes in the Maritime Industry...' – Transformations in Business & Economics (SSCI Q2; under review)

SDG 12 SDG 13 SDG 8

BAP-2021-02 · BAP · 2021-2022

Preparation of Polycaprolactone Composite Biofilms for Dye Adsorption

Prof. Dr. Musa KAMACI · Maritime Vocational School (MVS)

For the removal of dyes that cause water pollution, chitosan-containing iron particles were prepared and dispersed in polycaprolactone (PCL) at different ratios to produce composite biofilms. The biofilms were characterised by FT-IR and tested for the adsorptive removal of the cationic dye methylene blue from aqueous media with respect to pH, temperature, adsorbent amount, contact time and concentration. Approved budget TRY 56,050.

OUTPUTS

Writing of a publication is ongoing (an internationally indexed journal is planned)

SDG 6 SDG 14 SDG 12

BAP-2020-09 · BAP · 2020-2021

Investigation of the Removal of Dyes and Heavy Metals from Seawater in the Tuzla Shipyards Region Using Rice Husk Ash

Prof. Dr. Özgül TAŞPINAR · Chemistry R&D Laboratory; students of the Department of Naval Architecture and Marine Engineering (GMİM)

A dark-coloured polluted water sample taken from a shipyard in Tuzla was treated with rice husk ash (RHA), a waste material, and rendered clear and colourless. The results were documented by FTIR and photographs; it was concluded that RHA and the nanostructured calcium silicate to be produced from it could be effective in the treatment of ship/shipyard wastewater. Work has begun on establishing infrastructure for this purpose in the Chemistry R&D Laboratory.

OUTPUTS

Spring 2022 MF428 graduation thesis (Mustafa Bozkurt, Ahmet Alparslan Kuzucu); An international journal/conference publication is in preparation

SDG 14 SDG 6 SDG 12

BAP-A-2025-01-07 · BAP Infrastructure · 2024-2025 (1st call)

Calculation of the Institutional Carbon Footprint of Piri Reis University

SDG 13 SDG 12

BAP-2025-02-03 · BAP · 2024-2025 (2nd call)

Use of Polyamide-6 (PA-6) and Polyacrylonitrile (PAN) Composite Nanofibres in Oil–Water Separation

SDG 6 SDG 14 SDG 12

BAP-2025-03-01 · BAP · 2024-2025 (3rd call)

Investigation of the Potential Use of Bio-Based Binders in Sodium-Ion Batteries

SDG 7 SDG 12 SDG 13

BAP-L-2024-14 · Student BAP · 2023-2024

Production of Nanofibres for Oil–Water Separation by Electrospinning

Student project

SDG 6 SDG 14 SDG 12

2250262 · TÜBİTAK BİGG 1812

Use of Innovative, Economical and Environmentally Friendly Polymeric Nanofibres in Water Treatment

Prof. Dr. Elif ÖZEN CANSOY · Faculty of Arts and Sciences

SDG 6 SDG 12 SDG 14

BS-25-495 · 2025 Black Sea and Coastal Region Research Grant ('Blue Development of the Black Sea')

Eco-CaCarbon: Production of a new multifunctional material by thermal processing of polymer waste

Prof. Dr. Elif ÖZEN CANSOY, Assoc. Prof. Dr. Orhan Özgür AYBAR · Faculty of Arts and Sciences

SDG 12 SDG 14

ANNEX

SDG 12 Activity Inventory

The table below lists all activities associated with SDG 12 during and before the reporting period that are publicly available on the university's websites. The links serve as evidence.

Date	Activity	Unit	SDG
13 October 2025	Piri Reis University continues its EU-wide leadership in sustainable development projects	DENEKAM – Maritime Economics Research and Application Center	17 13 12
30 May 2025	A Seminar Bringing Together Fashion and Law from Piri Reis University Faculty of Law: "Sustainable Fashion"		12
29 May 2025	Sustainable fashion	Faculty of Law	12 8
16 May 2025	Clean Sea session	PRUSAM – Sustainability Research and Application Center	14 12
28 February 2025	Zero Waste Management Training Held		12
24 February 2025	Our University has earned the Zero Waste Certificate		12
10 October 2024	Sectoral innovation trends and sustainability	Faculty of Engineering – Innovation Club	12 9 8
28 April 2023	Recent developments in companies' environmental and human rights obligations	Faculty of Law	16 12 13
	Sustainable campus		7 12
	Treatment system		6 12
	Zero waste		12 15
	Waste separation		12 15
	Trigeneration		7 12
	IEES conference		7 12
	Grease separator		6 12 15
	Water dispensers		6 12
	Climate Change Mitigation and Action Policy Document		7 11 12 13 14 15 17

CONCLUSION

Conclusion and Assessment

The Zero Waste Certificate, the Waste Directive, the Waste Management Policy and waste separation obligations written into catering and cleaning contracts have made responsible consumption part of institutional culture. Zero-waste training for all staff, upcycling workshops and ESG-focused research spread this culture further.

Development areas include publishing the tonnage of waste generated and recycled in 2025, preparing a policy and action plan to reduce plastics and single-use items and establishing a supplier code of conduct that extends sustainability principles to all suppliers.



PÎRÎ REİS UNIVERSITY

SDG 12: Responsible Consumption and Production

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