



**UI GreenMetric**  
Sustainable University Rankings

# Guideline

# SUSTAINABLE UNIVERSITY RANKINGS

Advancing Sustainable Campuses  
through Governance, Digitalization,  
and Integrated Performance

# 2026

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## **1. What is UI GreenMetric Sustainable University Rankings?**

Universitas Indonesia (UI) initiated a world university ranking in 2010, known through 2025 as the UI GreenMetric World University Rankings, to measure universities' sustainability efforts. It was designed as an online survey to capture sustainability policies and programs implemented by universities across the globe.

The ranking is broadly based on the conceptual framework of Environment, Economy, and Equity. Its categories, indicators, and weightings are intended to be relevant to a wide range of stakeholders while minimizing bias as much as possible. Data collection and submission are designed to be relatively straightforward and typically require a reasonable amount of staff time.

In the 2010 edition, 95 universities from 35 countries participated: 18 from America, 35 from Europe, 40 from Asia, and two from Australia. In the 2025 edition, 1,745 universities from 105 countries participated. This growth reflects the global recognition of the UI GreenMetric as a pioneering sustainability-focused university ranking.

Starting in 2026, the ranking was renamed the UI GreenMetric Sustainable University Rankings. The theme for 2026 is "Advancing Sustainable Campuses through Governance, Digitalization, and Integrated Performance." This highlights how universities strengthen sustainability through effective governance structures, transparent leadership, and accountable policies.

## **2. What are the objectives?**

The UI GreenMetric Sustainable University Rankings aim to:

- Contribute to the academic discourse on sustainability in higher education and campus greening
- Promote university-led social change toward sustainability goals
- Serve as a self-assessment tool for campus sustainability for higher education institutions (HEIs) worldwide; and
- Inform governments, international and local environmental agencies, and society about sustainability programs on campuses.

## **3. Who can participate?**

Any university worldwide with a strong commitment to sustainability can participate in the annual UI GreenMetric Sustainable University Rankings.

<https://uigreenmetric.com>

## **4. What are the benefits?**

Universities that participate in UI GreenMetric Sustainable University Rankings by submitting their data can benefit from internationalization and recognition, greater awareness of sustainability, social change and action, and networking opportunities for collaboration. Registration is free of charge.

### ***a. Internationalization and recognition***

Participation in the UI GreenMetric Sustainable University Rankings can support a university's internationalization and recognition by increasing the visibility of its sustainability efforts. This may lead to greater traffic to the university website, more online references to the institution in relation to sustainability, increased communication with potential partners, and stronger recognition from alumni and the public as a university committed to sustainability.

### ***b. Increasing awareness of sustainability issues***

Participation can strengthen sustainability awareness within the university and beyond. The world faces major challenges, including population pressure, global warming, overexploitation of natural resources, dependence on fossil fuels, and water and food insecurity. Higher education plays a crucial role in responding to these challenges. The UI GreenMetric Sustainable University Rankings supports this role by assessing and comparing efforts in education for sustainable development, sustainability research, campus greening, and social outreach.

### ***c. Social change and action***

The UI GreenMetric Sustainable University Rankings is not only about raising awareness; it encourages concrete action. Turning knowledge into practice is essential for responding to today's sustainability challenges. Through shared learning and collective efforts, universities can contribute meaningfully to sustainability transitions.

### ***d. Networking***

UI GreenMetric Network was established in 2017, and all participants automatically become members of the UI GreenMetric Sustainable University Rankings Network (UIGM-SUREN). Through this network, participants can share best practices and build collaborations by joining the annual UI GreenMetric International Workshop and regional and national workshops hosted by approved universities. Participants may also organize technical workshops on the UI GreenMetric at their respective institutions.

As a platform to support sustainability action, the network is managed by UI GreenMetric as the secretariat. Programs and directions are proposed and decided

by a steering committee that includes the UI GreenMetric Secretariat and regional and national coordinators, as shown below.

**Table 1.** National Coordinators of the UI GreenMetric Sustainable University Rankings Network (UIGM-SUREN)

<b>No</b>	<b>National Coordinator</b>
1	Zonguldak Bülent Ecevit University – Türkiye
2	Ege University – Türkiye
3	University of Zanjan – Iran
4	Tarbiat Modares University – Iran
5	Universitas Diponegoro – Indonesia
6	National Pingtung University of Science and Technology – Taiwan
7	People’s Friendship University of Russia – Russia
8	University of São Paulo – Brazil
9	Kazakh National Agrarian University – Kazakhstan
10	University College Cork – Ireland
11	Siam University – Thailand
12	University of L’Aquila – Italy
13	Universidad de Navarra – Spain
14	University of Oviedo – Spain
15	El Bosque University – Colombia
16	University of Minho – Portugal
17	Riga Technical University – Latvia
18	Grand Asian University Sialkot – Pakistan
19	Escuela Superior Politécnica de Chimborazo – Ecuador
20	Holy Spirit University of Kaslik – Lebanon
21	University of Szeged – Hungary
22	University of Pécs – Hungary
23	University of Sousse – Tunisia
24	University of Sharjah – United Arab Emirates
25	Bukhara State University – Uzbekistan
26	October 6 University – Egypt
27	Batangas State University – Philippines
28	Al-Muthanna University – Iraq
29	Koya University – Iraq
30	Lagos State University – Nigeria
31	Toronto Metropolitan University – Canada
32	Universidad Católica de Córdoba – Argentina
33	Universidad Privada Dr. Rafael Bellosó Chacín – Venezuela
34	Daffodil International University – Bangladesh
35	Ala-Too International University – Kyrgyzstan

As of the 2025 edition, the network comprises **1,745 participating universities** across Asia, Europe, Africa, Australia, America, and Oceania. Collectively, these universities represent more than 3 million faculty members, 35 million students, and USD 98 billion in total research funding related to the environment and sustainability. These figures are Secretariat estimates based on aggregation of self-reported institutional data submitted by participating universities (reference year: 2025).

## **5. How can universities participate?**

Participation in the ranking process is straightforward. The sustainability director or other designated person in charge may visit <https://uigreenmetric.com> to learn about the ranking. If interested, the university may email the UI GreenMetric Secretariat at [support@uigreenmetric.com](mailto:support@uigreenmetric.com) to request an invitation letter and access to the online system.

Universities that participated in previous editions will receive an invitation to participate again. If your university decides not to participate for specific reasons, we would appreciate it if you could inform the secretariat. Your university is welcome to participate in future surveys.

We strongly recommend that each university appoints a dedicated contact person to coordinate data submissions and communication with the secretariat. Please feel free to contact the secretariat if you have any questions regarding the survey or submission process.

## **6. How was the UI GreenMetric Sustainable University Rankings developed?**

The establishment of the UI GreenMetric Sustainable University Rankings was influenced by several key considerations.

### ***a. Idealism and the role of universities***

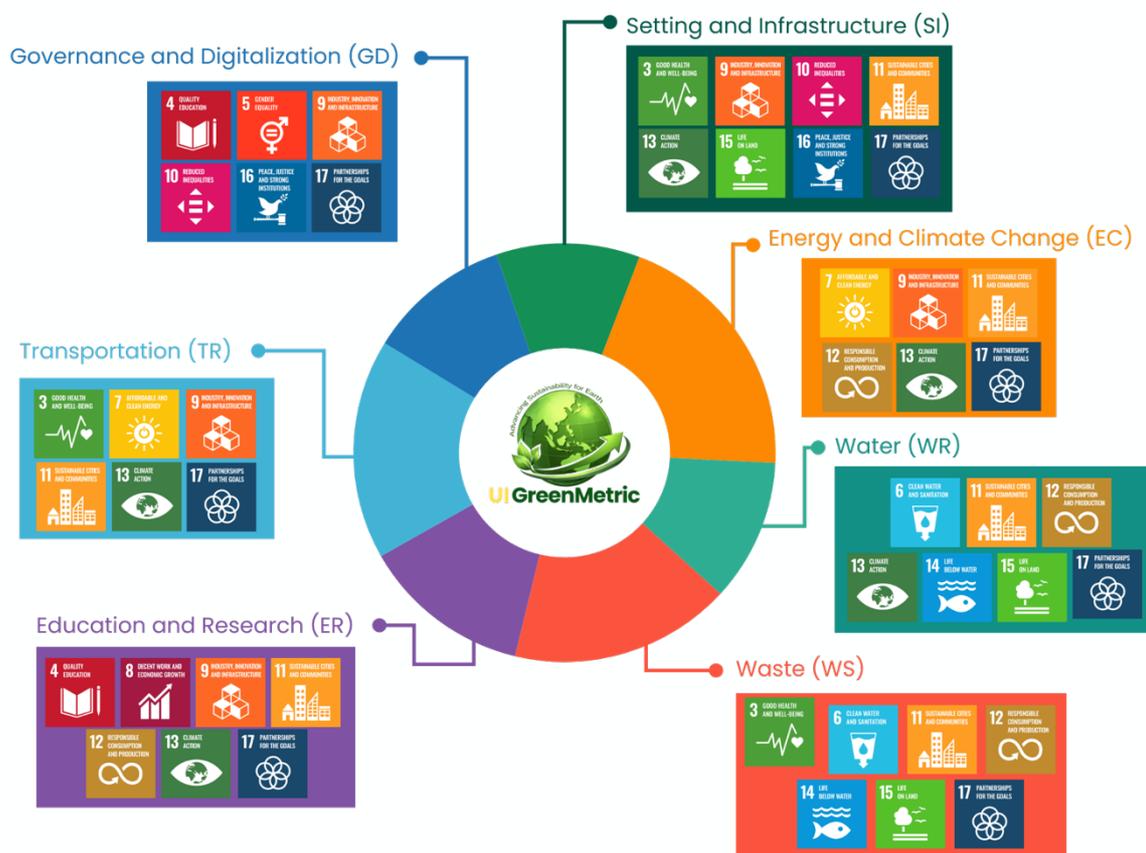
Future challenges to civilization include population pressure, climate change, energy security, environmental degradation, water and food security, and sustainable development. Despite extensive scientific research and public discussions, many governments have struggled to commit to sustainability agendas. At Universitas Indonesia, this concern led to the view that universities are well-positioned to help build consensus and advance action in key areas. These include the Triple Bottom Line, the 3Es (Equity, Economy, Environment), Green Building, and Education for Sustainable Development (ESD).

UI GreenMetric Sustainable University Rankings serves as a tool for universities to address sustainability challenges. Many institutions use the UI GreenMetric <https://uigreenmetric.com>

questionnaire to measure, monitor, and evaluate their sustainability strategies. By participating, universities can learn from each other and collaborate to reduce their negative environmental impact. UI GreenMetric is a non-profit initiative; therefore, universities may participate without registration fees.

**b. UI GreenMetric Sustainable University Rankings model**

Although UI GreenMetric was not developed from a single pre-existing ranking system, its model and questionnaire were designed with awareness of established sustainability assessment frameworks and university ranking approaches. During the design phase, several references informed the construction of indicators and scoring logic, including the Holcim Sustainability Awards, GREENSHIP (developed by the Green Building Council of Indonesia and informed by LEED), the Sustainability Tracking, Assessment, and Rating System (STARS), and the College Sustainability Report Card (also known as the Green Report Card).



**Figure 1. UI GreenMetric and the SDGs**

The guidelines position UI GreenMetric within the broader sustainability agenda of the United Nations. It notes the UN Environment’s emphasis on integrated approaches in the 2030 Agenda, where improvements in environmental health can generate social <https://uigreenmetric.com>

and economic benefits, and states that the 17 Sustainable Development Goals (SDGs) are captured within the UI GreenMetric criteria and indicators.

### ***c. Methodology development over time***

The UI GreenMetric Sustainable University Rankings has continuously refined its indicators to reflect emerging sustainability priorities and improve clarity and comparability.

- **2010:** 23 indicators across five categories were used to calculate ranking scores.
- **2011:** The number of indicators increased to 34.
- **2012:** The “smoke-free and drug-free campus environment” indicator was removed, resulting in 33 indicators. Indicators were reorganized into six categories, including education-related criteria, and the development of a dedicated category for sustainability education and research began to be considered.
- **2015:** The theme was carbon footprint, and two questions were added to the Energy and Climate Change section. Additional sub-indicators were introduced, particularly in Water and Transportation.
- **2017:** A major revision was implemented to better reflect new trends in sustainability.
- **2018:** The theme was *Universities, Impacts, and Sustainable Development Goals (SDGs)*. Detailed answer options were introduced for many indicators, including forest and planted vegetation coverage, additional water absorption areas, energy-efficient appliances, smart buildings, renewable energy ratio, green building elements, greenhouse gas reduction programs, waste and water criteria, parking area ratio, transportation initiatives to reduce private vehicles, parking reduction programs, shuttle services, Zero-Emission Vehicles (ZEV), pedestrian policies, and university-run sustainability websites. A new item was also added under the Education category regarding the availability of a published sustainability report. In addition, the bicycle-related item was updated to better reflect global developments in green transportation by focusing on Zero-Emission Vehicles.
- **2019:** The theme was *sustainable universities in a changing world: Lessons, challenges, and opportunities*. The questionnaire was improved by expanding the answer options and providing clearer explanations, particularly for smart building indicators.
- **2020:** The theme was *universities’ responsibility for sustainable development goals and the world’s Complex Challenges*. The questionnaire emphasized the

potential impact universities can have through green campus planning and community engagement.

- **2021:** New questions were added to better capture social, cultural, and economic impacts and reflect pandemic-related conditions.
- **2022:** Indicators were adjusted to reflect ongoing pandemic conditions, and a new indicator related to water pollution was added.
- **2023:** Several new indicators were added, including those related to 3R waste programs, student organization activities, and international collaboration.
- **2024:** UI GreenMetric introduced new and revised indicators focusing on Information and Communication Technology (ICT), encouraging universities to develop digital innovations that support sustainability.
- **2025:** Further adjustments will emphasize the impact and effectiveness of sustainability programs to strengthen their relevance in today's context.
- **2026:** UI GreenMetric added the Governance and Digitalization (GD) criterion and began referring to the rankings as the UI GreenMetric Sustainable University Rankings (UIGM SUR) (previously branded as the UI GreenMetric World University Rankings, WUR).

In addition, evidence is essential for the review process. Please ensure that the supporting evidence provided is complete, clear, and consistent with the data submitted.

#### **d. Realities and challenges**

The goal of developing a Sustainable University ranking was pursued with a clear understanding that the diversity of universities—their types, missions, and local contexts—creates methodological challenges. Universities differ in their levels of sustainability awareness and commitment, available budgets, extent of green space on campus, and many other dimensions.

These differences are complex in nature. However, UI GreenMetric Sustainable University Rankings is committed to continuously improving the ranking so that it remains useful and fair for all participants. We welcome feedback and suggestions from our members.

## 7. Who are the team?

From 2010 to 2020, the UI GreenMetric Sustainable University Rankings were managed by a team operating under the Rector of Universitas Indonesia. Since 2021, UI GreenMetric has operated more independently and has gradually shifted toward a self-financing model.

Our team consists of three main groups: the management team, expert members, and reviewers. Team members come from a wide range of academic and professional backgrounds, including Public Administration, Library & Information Science, Cultural Studies, Environmental Sciences, Engineering, Architecture, Urban Design, Dentistry, Public Health, Statistics, Chemistry, Physics, and Linguistics.

## 8. What is the methodology?

### a. The criteria

UI GreenMetric Sustainable University Rankings evaluates university policies and performance using the following seven categories:

- Setting and Infrastructure (SI)
- Energy and Climate Change (EC)
- Waste (WS)
- Water (WR)
- Transportation (TR)
- Education and Research (ED)
- Governance and Digitalization (GD)

Each category has a weight, as shown below.

**Table 2.** Categories used in the rankings and their weighting

No.	Category	Percentage of Total Points (%)
1	Setting and Infrastructure (SI)	11
2	Energy and Climate Change (EC)	20
3	Waste (WS)	17
4	Water (WR)	11
5	Transportation (TR)	17
6	Education and Research (ED)	13
7	Governance and Digitalization (GD)	11
	<b>TOTAL</b>	<b>100</b>

**Table 3.** Indicators and categories suggested for use in the 2026 rankings*1) Setting and Infrastructure (SI) — 11%*

<b>Code</b>	<b>Indicator</b>	<b>Points</b>
<b>SI1</b>	Ratio of open space area to total area	200
<b>SI2</b>	Total area on campus covered in forest vegetation used for research, teaching, and/or community engagement	100
<b>SI3</b>	Total area on campus covered in planted vegetation	200
<b>SI4</b>	Total open space area divided by total campus population	200
<b>SI5</b>	Campus facilities for persons with disabilities, special needs, and/or maternity care	100
<b>SI6</b>	Security and safety facilities	100
<b>SI7</b>	Health infrastructure to support the well-being of students, academic staff, and administrative staff	100
<b>SI8</b>	Conservation of flora, fauna, wildlife, and/or genetic resources secured in medium- or long-term conservation facilities	100
<b>Total</b>		<b>1100</b>

*2) Energy and Climate Change (EC) — 20%*

<b>Code</b>	<b>Indicator</b>	<b>Points</b>
<b>EC1</b>	Use of energy-efficient appliances	200
<b>EC2</b>	Smart building implementation	300
<b>EC3</b>	Number of renewable energy sources on campus	300
<b>EC4</b>	Total electricity usage divided by total campus population (kWh per person)	200
<b>EC5</b>	Ratio of renewable energy production to total annual energy usage	200
<b>EC6</b>	Green building elements implemented across buildings	200
<b>EC7</b>	Greenhouse gas (GHG) emission reduction program	200
<b>EC8</b>	Total carbon footprint divided by total campus population (metric tons per person)	200
<b>EC9</b>	Number of innovative programs in energy and climate change	100
<b>EC10</b>	Impactful university programs on climate change	100
<b>Total</b>		<b>2000</b>

*3) Waste (WS) — 17%*

<b>Code</b>	<b>Indicator</b>	<b>Points</b>
<b>WS1</b>	3R (Reduce, Reuse, Recycle) program for university waste	200
<b>WS2</b>	Program to reduce paper and plastic use on campus	300
<b>WS3</b>	Organic waste treatment	300
<b>WS4</b>	Inorganic waste treatment	300
<b>WS5</b>	Toxic waste treatment	300
<b>WS6</b>	Sewage disposal	300
<b>Total</b>		<b>1700</b>

#### 4) Water (WR) — 11%

Code	Indicator	Points
WR1	Total area for water absorption (excluding forest and planted vegetation areas)	100
WR2	Water conservation program and implementation	200
WR3	Water recycling program implementation	200
WR4	Use of water-efficient appliances	200
WR5	Consumption of treated water	200
WR6	Water pollution control in the campus area	200
<b>Total</b>		<b>1100</b>

#### 5) Transportation (TR) — 17%

Code	Indicator	Points
TR1	Number of combustion-engine vehicles (cars and motorcycles) divided by total campus population	200
TR2	Shuttle services	250
TR3	Availability of Zero-Emission Vehicles (ZEV) on campus	200
TR4	Number of ZEV divided by total campus population	200
TR5	Ratio of ground parking area to total campus area	200
TR6	Program to limit or reduce parking area over the last three years	200
TR7	Number of initiatives to reduce private vehicles on campus	200
TR8	Pedestrian paths on campus	250
<b>Total</b>		<b>1700</b>

#### 6) Education and Research (ED) — 13%

Code	Indicator	Points
ED1	Ratio of sustainability courses to total courses/subjects	200
ED2	Ratio of sustainability research funding to total research funding	200
ED3	Ratio of sustainability-related scholarly publications to lecturers/researchers (one-year period)	200
ED4	Number of sustainability-related events or program	100
ED5	Number of sustainability-related activities organized by student organizations per year	150
ED6	Number of cultural activities on campus	100
ED7	Number of sustainability programs with international collaborations	100
ED8	Number of sustainability-related community services involving students	100
ED9	Number of sustainability-related startups	100
ED10	Percentage of graduates with green jobs (last three years)	50
<b>Total</b>		<b>1300</b>

#### 7) Governance and Digitalization (GD) — 11%

Code	Indicator	Points
GD1	Percentage of university budget for sustainability efforts	200
GD2	University-run sustainability website	200
GD3	Sustainability report	100
GD4	Financial report	100
GD5	Availability of a unit/office coordinating sustainability on campus	100
GD6	Use of ICT for sustainability program planning, implementation, monitoring and evaluation	50

<b>GD7</b>	Policy on advanced digital technologies (AI/IoT, etc.) to support decision-making, efficiency, and service delivery	50
<b>GD8</b>	Ratio of female leaders to total institutional leaders	100
<b>GD9</b>	Anti-corruption and integrity system	50
<b>GD10</b>	Whistle-blowing and complaint system	50
<b>GD11</b>	LMS-Enabled Digital Literacy Program	50
<b>GD12</b>	Written code of ethics for university leaders, academic staff, administrative staff, and students	50
<b>Total</b>		<b>1100</b>

*Light green indicates the new indicators for 2026.*

### ***b. Revised indicators***

To respond to current developments and better capture the social, cultural, and economic dimensions of sustainability, several indicators were revised in this year's questionnaire.

### ***c. Scoring***

Each item is scored numerically to allow for statistical processing of the data. Scores are based on simple counts (e.g., number of programs, volume of waste) or responses on a defined scale. Detailed scoring guidance is provided in **Appendix 1**.

### ***d. Weighting of criteria***

Each criterion falls under a broader category. After data submission, the raw scores are weighted according to the category weightings to produce the final score.

### ***e. Tie-breaking rules***

If two or more universities obtain the same total score, the UI GreenMetric Sustainable University Rankings 2026 applies the following tie-breaking rules:

1. Energy and Climate Change (EC) score (20%)
2. If the tie remains, Waste (WS) score (17%), followed by Transportation (TR) score (17%)
3. If the tie still remains, Education and Research (ED) score (13%)
4. If the tie still remains, Setting and Infrastructure (SI) (11%), followed by Water (WR) (11%), and then Governance and Digitalization (GD) (11%), to determine the final ranking order

*Note: These tie-breaking steps follow the category weightings presented in Table 2.*

### ***f. Refining and improving the research instrument***

Although we have made every effort to design and implement the questionnaire carefully, we recognize that there may still be some limitations. Therefore, we regularly review the criteria and weightings to incorporate feedback from participants and reflect

current developments in the field. We welcome your comments and suggestions for improvement.

### ***g. Data submission***

Universities should submit data through the online system between February and June 2026. Data may be reported using a one-year reference period, either on a calendar-year basis (e.g., January 2025 to December 2025) or as a rolling 12-month period (e.g., May 2025 to May 2026), in accordance with the applicable UI GreenMetric data reference policy.

We also welcome supporting documentation, including electronic or hard copies of your university's sustainability evaluations and reports, as well as evidence of sustainability activities conducted at your university.

### ***h. Results***

Final results will be released in **September 2026**. The overall ranking results and detailed scores can be accessed at: <https://uigreenmetric.com>

## **9. Who are our networks?**

The growing awareness of sustainability has helped build a global network of like-minded universities and organizations. This network is coordinated by the UI GreenMetric Sustainable University Rankings Secretariat and guided by a steering committee that includes national and/or regional coordinators in cooperation with universities that host UI GreenMetric events.

Since 2017, UI GreenMetric has supported and participated in many national and regional workshops hosted by universities in various countries. In 2017, UI GreenMetric collaborated with Kazakh National Agrarian University (Kazakhstan), El Bosque University (Colombia), University of São Paulo (Brazil), Universitas Diponegoro (Indonesia), University of Bologna (Italy), Aalborg University (Denmark), King Abdulaziz University (Saudi Arabia), and People's Friendship University of Russia (RUDN University) (Russia). The 3<sup>rd</sup> International Workshop on UI GreenMetric (IWGM) was hosted by Zonguldak Bülent Ecevit University (Turkey).

In 2018, UI GreenMetric also shared its progress at international and regional forums, including the IREG Forum (Belgium), the ISCN Conference (Sweden), the CRUI Working Group on International Academic Rankings (Italy), the International Association for Impact Assessment (IAIA) Conference (Malaysia), and the Global Symposium on Green Campus Development (China). In the same year, UI GreenMetric contributed to national workshops hosted by several universities, including the University of Zanjan and Ferdowsi University of Mashhad (Iran), Atyrau State University (Kazakhstan), King Abdulaziz University (Saudi Arabia), University of

Nottingham (United Kingdom), National University of Colombia and Universidad del Rosario (Colombia), University of São Paulo (Brazil), Pakistan Higher Education Commission (Pakistan), Universiti Utara Malaysia (Malaysia), Institut Teknologi Sepuluh Nopember (Indonesia), Riga Technical University (Latvia), RUDN University (Russia), Universidad Técnica Federico Santa María (Chile), and OMNES Education (France). The 4<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by Universitas Diponegoro (Indonesia).

In 2019, UI GreenMetric was invited to engage with various organizations and communities, including the 4th General Assembly Meeting of the Green University Union of Taiwan, CRUE Meeting, World Environmental Education Congress, and Building Universities' Reputations (BUR) Conference. National and regional workshops were also hosted by universities such as Universidad Autónoma de Occidente and Universidad Icesi (Colombia), University of Szeged and University of Pécs (Hungary), Universitas Hasanuddin (Indonesia), Nazarbayev University (Kazakhstan), Universidade Federal de Lavras (Brazil), Holy Spirit University of Kaslik (USEK) (Lebanon), RUDN University (Russia), Escuela Superior Politécnica de Chimborazo (ESPOCH) (Ecuador), University of Sousse (Tunisia), and Cyprus International University (North Cyprus). The 5<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by University College Cork (Ireland).

In early 2020, two workshops were held in France and Saudi Arabia. During the COVID-19 pandemic, UI GreenMetric continued its engagement through online activities, conducting more than 60 workshops and webinars virtually.

In 2020, UI GreenMetric held virtual workshops with university representatives from different countries, including the University of Nottingham (United Kingdom), Mahidol University (Thailand), Universitas Riau (Indonesia), Fundación Universidad del Norte (Colombia), University of Sharjah (United Arab Emirates), RUDN University (Russia), University of Campinas (Brazil), and Universidad de Sonora (Mexico). The 6<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by University of Zanjan (Iran).

In 2021, the virtual workshops continued, with additional hosts and participating countries, including University of Szeged (Hungary), Mahidol University (Thailand), University of Zanjan (Iran), Tarbiat Modares University (Iran), Universitas Sebelas Maret (Indonesia), Universidad Hemisferios (Ecuador), RUDN University (Russia), Universidad Tecnológica de Pereira (Colombia), Universidad Autónoma de Nuevo León (Mexico), and INSEEC U (France). The 7<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by Universiti Putra Malaysia (Malaysia).

As part of its thematic priorities, UI GreenMetric—together with University of São Paulo, Universitas Indonesia, El Bosque University, University of Szeged, University of Sharjah, ESPOCH, and the University of Sousse—launched the UI GreenMetric Online Course on Sustainability 2021 (Team A). This initiative offered an undergraduate-level introduction to sustainable development through a global learning experience involving universities across four continents and seven countries. It

introduces students to key sustainability challenges and pathways in Brazil, Colombia, Ecuador, Hungary, Indonesia, Tunisia, and the United Arab Emirates and explores the relationships between economic development, social inclusion, and environmental protection.

In 2022, UI GreenMetric organized workshops with university representatives from countries including Universidad EAFIT (Colombia), Mahidol University (Thailand), Universidad Tecnológica ECOTEC (Ecuador), RUDN University (Russia), University of Sharjah (United Arab Emirates), and Universitas Multimedia Nusantara (Indonesia). The 8<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by National Pingtung University of Science and Technology (Taiwan).

The UI GreenMetric Online Course on Sustainability continued to expand. In 2021-2024, 17 Indonesian universities collaborated to organize online courses for their students: Institut Teknologi Nasional Bandung, Institut Teknologi Sepuluh Nopember, Telkom University, Universitas Diponegoro, Universitas Gadjah Mada, Universitas Islam Negeri Jakarta, Universitas Lampung, Universitas Muhammadiyah Malang, Universitas Negeri Surabaya, Universitas Padjadjaran, Universitas Palangka Raya, Universitas Pancasila, Universitas Pattimura, Universitas Sam Ratulangi, Universitas Sebelas Maret, Universitas Sriwijaya, and Universitas Syiah Kuala.

In 2023, national workshops were hosted by Universidad Nacional Autónoma de México (Mexico), University of L'Aquila (Italy), Bukhara State University (Uzbekistan), Institut Teknologi Sumatera (Indonesia), Tarbiat Modares University (Iran), Universidade Federal de Mato Grosso do Sul (Brazil), Universidad San Francisco de Quito (Ecuador), Universidad Militar Nueva Granada (Colombia), Hasan Kalyoncu University (Turkey), Cyprus International University (Cyprus), Khwaja Fareed University of Engineering and Information Technology (Pakistan), Batangas State University (Philippines), Universitas Hasanuddin (Indonesia) and RUDN University (Russia). The 9<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by University of Minho (Portugal). The UI GreenMetric Results and Awards was hosted by the Abu Dhabi University (United Arab Emirates).

In 2024, national workshops were hosted by Lagos State University (Nigeria), BUAP (Mexico), Ege University (Turkey), Universidad de Vigo (Spain), UPEC (Ecuador), KFUEIT (Pakistan), Batangas State University (Philippines), Universitas Tanjungpura (Indonesia), University of Pécs (Hungary), RUDN University (Russia), Universitas Padjadjaran (Indonesia) and Bukhara State University (Uzbekistan). The 10<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by Universidad del Rosario, Universidad Javeriana, Universidad Autonoma de Occidente, Universidad Nacional and Universidad El Bosque (Colombia). The UI GreenMetric Results and Awards 2024 were hosted by the University of São Paulo (USP) (Brazil).

The online course for Team B was also organized by the National Pingtung University of Science and Technology (Taiwan), University of Pécs (Hungary), Universitas Diponegoro (Indonesia), Universitas Negeri Yogyakarta (Indonesia), Mahidol University (Thailand), and Zonguldak Bülent Ecevit University (Turkey). In 2024, one

new university joined Team A—Oguz Han Engineering and Technology University (Turkmenistan)—and one new university joined Team B—Arab American University Palestine (Palestine).

In 2025, national workshops were hosted by CETYS Universidad, Campus Tijuana (Mexico), Universidad Técnica Particular de Loja (UTPL) (Ecuador), Universidad de Santander (UDES) (Colombia), Burdur Mehmet Akif Ersoy University (Turkey), Kazakh National Agrarian University (KazNAU) (Kazakhstan), Università degli Studi dell'Aquila (Italy), Universidad Privada Dr. Rafael Belloso Chacín (URBE) (Venezuela), Grand Asian University Sialkot (GAUS) (Pakistan), UIN Raden Fatah Palembang (Indonesia) and Universitas Diponegoro (Indonesia). The 11<sup>th</sup> International Workshop on UI GreenMetric (IWGM) was hosted by Université Côte d'Azur (France). The UI GreenMetric Results and Awards 2025 were hosted by the National Chi Nan University (NCNU) (Taiwan).

## **10. What are our plans?**

UI GreenMetric continuously reflects on how to better achieve its goals, learns from constructive feedback on university rankings and the advancement of Education for Sustainable Development (ESD), and benefits from the diverse experiences of participating universities across different contexts.

We plan to continue improving the questionnaire and provide more consultation services to members of our network. We will also strengthen collaboration through innovative programs and new opportunities for shared learning to achieve this goal.

## Questionnaire (Criteria and Indicators)

The UI GreenMetric Sustainable University Rankings questionnaire is structured around seven categories used in the assessment: Setting and Infrastructure (SI), Energy and Climate Change (EC), Waste (WS), Water (WR), Transportation (TR), Education and Research (ED), and Governance and Digitalization (GD). Each category is broken down into specific questions with detailed guidance to help universities report their sustainability policies, programs, and performance in a consistent manner. Generally, universities may use the questionnaire to present sustainability efforts as accurately as possible, and supporting evidence is strongly recommended and required for most questions/indicators, especially campus maps and/or a campus master plan, because these help reviewers verify locations, area sizes, and the distribution of relevant facilities across indicators.

### 1. Setting and Infrastructure (SI) — 11%

This category provides baseline information on campus context and physical infrastructure to assess sustainability performance. It supports the assessment of whether a campus demonstrates the key characteristics of a green or sustainable campus, including land use patterns, open spaces, and ecosystem-related features. The category is designed to encourage universities to expand and protect green spaces, strengthen environmental stewardship, and support sustainable development through planning and infrastructure.

#### 1.1. Type of higher education institution

Please select one of the following options:

- [1] Comprehensive
- [2] Specialized higher education institution

#### 1.2. Climate

Please select the option that best describes the climate in your region.

- [1] Tropical wet
- [2] Tropical wet and dry
- [3] Semiarid
- [4] Arid
- [5] Mediterranean
- [6] Humid subtropical
- [7] Marine west coast / oceanic climate
- [8] Humid continental

[9] Subarctic

### 1.3. Number of campus sites

Please state the number of separate locations where your university conducts academic activities. For example, if your university operates more than one campus in different districts, towns, or cities, please report the **total number of campuses**.

If more than one campus site is reported, **all relevant data must be consistently applied across all listed campuses** for the related indicators.

**Recommended evidence:** Campus maps and/or a campus master plan showing campus location, area size, and the distribution of facilities relevant to the indicators.

**Evidence is required**

### 1.4. Campus setting

Please select one of the following options:

[1] Rural

[2] Suburban

[3] Urban

[4] City center

[5] High-rise building area

**Evidence is required**

### 1.5. Total campus area (m<sup>2</sup>)

Please state the total campus area in square meters in the footnote. Only areas used for academic activities should be included (for example, administration buildings, teaching facilities, student and staff activity buildings, dormitories, and canteens).

Forests, fields, and other land areas may be counted **only if they are used for academic purposes**, such as field lectures, practicum, training, research, teaching, and/or community engagement activities.

**Recommended evidence:** Campus maps showing locations, area size, and relevant land use.

**Evidence is required**

### 1.6. Total campus ground floor area of buildings (m<sup>2</sup>)

Please provide the total area occupied by buildings by reporting the **combined ground floor footprint** of all university buildings on campus.

### 1.7. Total campus buildings area (m<sup>2</sup>)

Please provide the **total floor area of all buildings**, including the ground and upper floors.

**Recommended evidence:** Campus maps showing building locations and/or documented building area calculations.

**Evidence is required**

### 1.8. Ratio of open space area to total area (SI.1)

Please provide the percentage ratio of the open space area to the total campus area.

**Formula:**

$$SI1 (\%) = ((1.5 - 1.6) / 1.5) \times 100\%$$

Please select one option:

[1] ≤ 1%

[2] > 1% – 80%

[3] > 80% – 90%

[4] > 90% – 95%

[5] > 95%

**Recommended evidence:** Campus maps showing open spaces and building footprints.

**Evidence is required**

### 1.9. Total area covered by forest vegetation used for research, teaching, and/or community engagement (SI.2)

Please provide the percentage of the campus area covered by forest vegetation relative to the total campus area. Forest vegetation refers to an area dominated by trees and associated biodiversity (natural and/or planted), including vertical stratification and undergrowth, and is typically managed for conservation.

To support consistent reporting across different national contexts, please specify the forest definition applied by your institution (e.g., a national definition where applicable). If no national definition is applied, you may refer to the FAO Forest Resources Assessment (FRA) definition: land spanning more than 0.5 ha with trees higher than 5 m and a canopy cover of more than 10%, or trees that can reach these thresholds in situ; land predominantly under agricultural or urban land use is excluded.

The forested area must:

- be owned by the university; and
- be used for academic or community purposes (research, teaching, and/or community engagement).

If your university is located in an arid zone, you may claim that the area developed as forest vegetation, provided it meets the requirements of the zone and is supported by evidence.

Please select one option (and provide the total area in m<sup>2</sup>):

- [1] ≤ 2%
- [2] > 2% – 10%
- [3] > 10% – 25%
- [4] > 25% – 35%
- [5] > 35%

**Recommended evidence includes** campus maps, land ownership documentation (if applicable), photos, and clear location markers.

**Evidence is required**

### 1.10. Total area covered by planted vegetation (SI.3)

Please provide the percentage of campus area covered by **planted vegetation, excluding forests**, relative to the total campus area.

The following may be considered as planted vegetation:

- lawns and gardens
- green roofs
- indoor planting areas
- vertical gardens

All claimed areas must be supported by **clear visual evidence**, such as site maps, building names, and images that clearly show the exact location of the vegetation.

Please select one option (and provide the total area in m<sup>2</sup>):

- [1] ≤ 10%
- [2] > 10% – 20%
- [3] > 20% – 30%
- [4] > 30% – 50%
- [5] > 50%

**Evidence is required**

### 1.11. Total number of regular students

Please provide the total number of regular students (full-time and part-time). Regular students are defined as registered and active students in one semester (Effective Full-Time Students/EFTS), excluding short-term students (for example, exchange students, continuing education, and short-course students).

**Evidence is required**

### 1.12. Total number of online students

Please provide the total number of students registered as **online-only students**, excluding regular students.

### 1.13. Total number of academic and administrative staff

Please report the total number of effective full-time academic staff (lecturers, professors, and researchers) and administrative staff working at your university, using a clearly stated reference date or reporting period.

### 1.14. Open space area per campus population (SI.4)

Please provide the open-space area per person on the campus. Only open spaces within the campus were included. If your university has a campus forest used for research, it may be reported under forest vegetation (SI.2), but **it should not be included in this indicator**.

**The formula (open space per person) is as follows:**

$$SI4 \text{ (m}^2\text{/person)} = (1.5 - 1.6) / (1.11 + 1.13)$$

Please select one option:

[1]  $\leq 10 \text{ m}^2\text{/person}$

[2]  $> 10 - 20 \text{ m}^2\text{/person}$

[3]  $> 20 - 40 \text{ m}^2\text{/person}$

[4]  $> 40 - 70 \text{ m}^2\text{/person}$

[5]  $> 70 \text{ m}^2\text{/person}$

**Evidence is required**

### 1.15. Facilities for disabled persons, special needs, and/or maternity care (SI.5)

Please provide information on campus facilities that support disabled persons, individuals with special needs, and/or maternity care (for example, library access, classrooms, toilets, lactation rooms, transportation access, daycare services).

For each facility, please provide the following:

- Campus maps showing the location, and
- Clear identification of relevant buildings.

You may also provide a table listing each Building A facilities available (for example, “Building A: lactation room, accessible toilet”).

Please select one option:

- [1] None
- [2] Policy is in place
- [3] Facilities are in the planning stage
- [4] Facilities are partially available and operational
- [5] Facilities exist in all buildings and are fully operational

**Evidence is required**

### **1.16. Security and safety facilities (SI.6)**

Please provide information on the campus infrastructure that supports the security and safety of campus residents.

Please select one option:

- [1] Passive security and safety system
- [2] Security and safety infrastructure (CCTV, emergency hotline/button) is available and fully functional
- [3] Security and safety infrastructure (CCTV, emergency hotline/button, certified personnel, fire extinguisher, hydrant) is available and fully functional
- [4] Security and safety infrastructure is available and fully functional, and response time for accidents, crime, fire, and natural disasters is more than 5 minutes
- [5] Security and safety infrastructure is available and fully functional, and response time for accidents, crime, fire, and natural disasters is less than 5 minutes

**Evidence is required**

### **1.17. Health infrastructure for students, academics, and administrative staff well-being (SI.7)**

Please provide information on campus infrastructure supporting physical and mental health services for students, academic staff and administrative staff.

Please select one option:

- [1] Health infrastructure (first aid) is not available
- [2] Health infrastructure (first aid, emergency room, clinic, and personnel) is available
- [3] Health infrastructure (first aid, emergency room, clinic, and certified personnel) is available
- [4] Health infrastructure (first aid, emergency room, clinic, hospital, and certified

personnel) is available

[5] Health infrastructure (first aid, emergency room, clinic, hospital, and certified personnel) is available, systemized, and accessible to the public

**Evidence is required**

### **1.18. Conservation of flora, fauna, wildlife, and genetic resources (SI.8)**

Please provide information on campus programs for the conservation of flora (plants), fauna (animals), wildlife, and/or genetic resources for food and agriculture. You may include information such as the following:

- program name and scope
- types of species
- number of species
- duration of conservation
- targeted population and/or conservation area

Progress may be reported as a percentage of the total planned program (implemented or ongoing) and should reflect the annual achievements.

We encourage institutions to provide the following:

- a baseline list of identified species,
- a list of species planned for conservation, and
- a timeline for conservation activities,  
to demonstrate a structured and measurable plan for the same.

Please select one option:

- [1] Conservation program is in preparation
- [2] Conservation program is 1%–25% implemented
- [3] Conservation program is 25%–50% implemented
- [4] Conservation program is 50%–75% implemented
- [5] Conservation program is more than 75% implemented

*If conservation activities are conducted in another location, your university may include them in the evidence document and include that conservation area in the total campus area (Question 1.5).*

**Evidence is required**

### **1.19. Impact of Setting and Infrastructure programs in supporting the SDGs**

Please indicate the extent to which your Setting and Infrastructure (SI) programs contribute to the UN Sustainable Development Goals (SDGs). Select the option that best reflects the number of SDGs directly supported by these programs.

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Please select one option:

- [1] Low impact (supporting 1–2 SDGs)
- [2] Moderate impact (supporting 3–5 SDGs)
- [3] Significant impact (supporting 6–9 SDGs)
- [4] High impact (supporting 10–13 SDGs)
- [5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

## 2. Energy and Climate Change (EC) — 20%

Energy and Climate Change is the highest-weighted category in the ranking, reflecting the central role of energy management and climate action in campus sustainability. It evaluates how universities manage energy use and respond to climate change through policies, programs, and infrastructure, including efficiency measures and climate-related initiatives. The indicators cover areas such as energy-efficient appliances, smart buildings, renewable energy, electricity consumption, green building elements, GHG reduction programs, and carbon footprint measurement to promote responsible energy management and reduced environmental impacts.

### 2.1. Energy-efficient appliances usage (EC.1)

Please compare the number of energy-efficient appliances to conventional appliances used on campus and report the percentage. Examples of energy-efficient appliances include environmentally friendly air conditioners, LED lighting, and Energy Star–certified computers.

**Recommended evidence includes** inventory lists, procurement records, photos, and/or facility documentation. Campus maps may be included, where relevant.

Please select one option:

- [1] < 1%
- [2] 1% – 25%
- [3] > 25% – 50%
- [4] > 50% – 75%
- [5] > 75%

**Evidence is required**

### 2.2. Total smart building area on campus (m<sup>2</sup>)

Please provide the total floor area (including ground and all upper floors) of the smart buildings on your campus.

A building may be classified as a smart building if it includes core smart building features, such as the following:

- Automation,
- Safety and security (e.g., sensors, access control, CCTV/video surveillance),
- Energy management,
- Water and sanitation systems,
- Indoor environmental quality (thermal comfort and air quality), and
- Lighting efficiency (illumination management and low-power lighting).

Detailed requirements can be found in Appendix 3 and the Evidence Template.

Smart buildings are expected to be supported by systems such as

- Building Management System (BMS),
- Building Information Modelling (BIM),
- Building Automation System (BAS), and/or
- Facility Management System (FMS),

and to include at least five (5) additional smart building features (where possible) that are integrated or interoperable with BMS/BIM/BAS/FMS.

These systems typically support the data collection, monitoring, control, and management of building systems, such as ventilation, hydraulics, lighting, motor-driven systems, security, and fire prevention.

All smart features should contribute to a positive environmental performance across the building lifecycle. Any efficiency gains achieved through smart systems must be explained in the university's annual sustainability report.

**Recommended evidence:** building list, floor area documentation, BMS/BIM/BAS/FMS proof (screenshots or certificates), and system description.

### 2.3. Smart building implementation (EC.2)

Please indicate the stage of smart building implementation by reporting the percentage of smart building floor area compared with the total floor area of all campus buildings.

**Formula:**

$$EC2 (\%) = (2.2 / 1.7) \times 100$$

Please select one option:

- [1] < 1%
- [2] 1% – 25%
- [3] > 25% – 50%
- [4] > 50% – 75%
- [5] > 75%

**Recommended evidence:** campus maps (optional), a building list with areas, and supporting documentation.

**Evidence is required**

#### **2.4. Number of renewable energy sources on campus (EC.3)**

The use of multiple renewable energy sources indicates a greater effort to diversify the energy supply.

Please select one option:

- [1] None
- [2] 1 source
- [3] 2 sources
- [4] 3 sources
- [5] More than 3 sources

#### **2.5. Renewable energy sources and annual energy produced (kWh)**

Please select one or more renewable energy sources used on campus and provide the amount of energy produced (in kilowatt-hours [kWh]). If your university uses other renewable energy sources, you may include them in the evidence documents.

- [1] None
- [2] Biodiesel (provide kWh produced)
- [3] Clean biomass (provide kWh produced)
- [4] Solar power (provide kWh produced)
- [5] Geothermal (provide kWh produced)
- [6] Wind power (provide kWh produced)
- [7] Hydropower (provide kWh produced)
- [8] Combined Heat and Power / CHP (provide kWh produced)

#### **Notes (definitions):**

- Biodiesel: a renewable fuel made from natural oils and fats and used as an alternative to diesel.
- Clean biomass: Organic materials (e.g., wood, agricultural residues, and algae) used for energy with minimal environmental impact.
- Solar power: Energy from the sun using photovoltaic (PV) or solar thermal systems.
- Wind power: Electricity generated by wind turbines.
- Hydropower: electricity generated from moving water (rivers/dams).
- CHP: systems that simultaneously produce electricity and useful heat, thereby improving efficiency.

**Recommended evidence:** System specifications, monitoring output reports, photos, and/or utility or meter records.

**Evidence is required**

## 2.6. Electricity usage per year (kWh)

Please provide the total electricity used in the last 12 months across the entire university area (in kWh), including electricity for lighting, heating, cooling, laboratories, and other university operations.

**Recommended evidence:** utility bills, metering reports, or certified energy audit documents.

**Evidence is required**

## 2.7. Electricity usage per campus population (kWh per person) (EC.4)

Please provide the total electricity usage divided by the total campus population.

**Formula:**

$$EC4 = 2.6 / (1.11 + 1.13)$$

Please select one option:

[1]  $\geq 2400$  kWh

[2]  $> 1500 - 2400$  kWh

[3]  $> 600 - 1500$  kWh

[4]  $\geq 250 - 600$  kWh

[5]  $< 250$  kWh

## 2.8. Ratio of renewable energy production to total energy usage per year (EC.5)

Please provide the ratio of renewable energy production to total annual energy usage.

Please select one option:

[1]  $\leq 0.5\%$

[2]  $> 0.5\% - 1\%$

[3]  $> 1\% - 2\%$

[4]  $> 2\% - 25\%$

[5]  $> 25\%$

**Evidence is required**

## 2.9. Green building implementation elements across all buildings (EC.6)

Please report how many green building elements have been implemented across campus buildings (e.g., natural ventilation, full natural daylighting, a building energy

manager, certified green building status, etc.). Green building element classifications are available in Appendix 2 and the evidence templates.

Please select one option:

- [1] None (no green building implementation)
- [2] 1 element
- [3] 2 elements
- [4] 3 elements
- [5] More than 3 elements

**Recommended evidence includes** building documentation, policies, photos, certification documents, and/or audit reports.

**Evidence is required**

## 2.10. Greenhouse gas (GHG) emission reduction program (EC.7)

Please select the option that best reflects your university's formal programs (at any scale) for reducing GHG emissions.

Please select one option:

- [1] None (a program is needed, but no action has been taken)
- [2] Program in preparation
- [3] Program(s) address emissions in **one scope** (Scope 1 or 2 or 3)
- [4] Program(s) address emissions in **two scopes** (Scope 1 & 2, or Scope 1 & 3, or Scope 2 & 3)
- [5] Program(s) address emissions in **all three scopes** (Scope 1, 2, and 3)

**Evidence is required**

Please use **Table 4** to support your answers.

**Table 4.** List of greenhouse gas emission sources (Woo & Choi, 2013)

Scope	Emission source	Description / examples
<b>Scope 1 (Direct emissions)</b>	Stationary combustion	Fuel burned in fixed equipment (boilers, heaters, kilns, engines).
	Mobile combustion	Fuel burned by institution-owned vehicles.
	Process emissions	Direct emissions from physical/chemical processes (not fuel combustion).
	Fugitive emissions	Refrigerant leaks from AC/refrigeration equipment; methane leakage from gas transport.
<b>Scope 2 (Indirect emissions)</b>	Purchased electricity	Emissions from generating purchased electricity used by the institution.
<b>Scope 3 (Other indirect emissions)</b>	Waste	Emissions from incineration/landfill of institutional solid waste.
	Purchased water	Emissions related to purchased water supply and use.
	Commuting	Emissions from commuting by students and employees.
	Air travel	Emissions from institution-funded air travel.

**Note:** Air travel is listed in Table 4 as a common Scope 3 emission source. However, for Question 2.11 in UI GreenMetric 2026, universities should exclude emissions from flights, as stated in the questionnaire.

### **2.11. Total carbon footprint (CO<sub>2</sub> emissions in the last 12 months, metric tons)**

Please provide the total carbon footprint of your university. Please exclude emissions from flights and secondary carbon sources (e.g., food consumption, dishes, and clothing). For calculation guidance, please refer to **Appendix 4**.

**Recommended evidence:** calculation sheets, data sources, assumptions, and references.

**Evidence is required**

### **2.12. Carbon footprint per campus population (metric tons per person) (EC.8)**

Please provide the total carbon footprint divided by the total campus population.

**Formula:**

$$EC8 = 2.11 / (1.11 + 1.13)$$

Please select one option:

- [1]  $\geq 2.05$  metric tons
- [2]  $> 1.11 - 2.05$  metric tons
- [3]  $> 0.42 - 1.11$  metric tons
- [4]  $> 0.10 - 0.42$  metric tons
- [5]  $< 0.10$  metric tons

### **2.13. Number of innovative program(s) in energy and climate change (EC.9)**

Please provide the total number of innovative programs related to energy and climate change (e.g., Smart Indoor Health and Comfort Systems, novel energy approaches, new mitigation solutions, etc.).

Innovative programs are defined as those **created and developed by the university**, resulting in new approaches or solutions for energy efficiency, climate mitigation, and sustainability outcomes. Eligible innovations include novel technologies, patented inventions, university-developed products, and recognized discoveries.

Technologies or systems purchased from external manufacturers are not qualified.

Please select one option:

- [1] None
- [2] 1 program
- [3] 2 programs

- [4] 3 programs
- [5] More than 3 programs

**Recommended evidence includes** patents/IP documents, project reports, prototypes, publications, awards, or formal recognition.

**Evidence is required**

#### **2.14. Impactful university program(s) on climate change (EC.10)**

Please select the option that best describes your university's climate change programs (risk, impacts, mitigation, adaptation, impact reduction, and/or early warning). The supporting evidence must include the training materials and a participant list.

Please select one option:

- [1] None
- [2] Program in preparation
- [3] Training/materials/seminars/activities implemented with surrounding communities (local level)
- [4] Training/materials/seminars/activities implemented at the national level
- [5] Training/materials/seminars/activities implemented at the international level

**Evidence is required**

#### **2.15. Impact of Energy and Climate Change programs in supporting the SDGs**

Please indicate the extent to which your Energy and Climate Change (EC) programs contribute to the UN Sustainable Development Goals (SDGs). Select the option that best reflects the number of SDGs directly supported by these programs.

Please select one option:

- [1] Low impact (supporting 1–2 SDGs)
- [2] Moderate impact (supporting 3–5 SDGs)
- [3] Significant impact (supporting 6–9 SDGs)
- [4] High impact (supporting 10–13 SDGs)
- [5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

### **3. Waste (WS) — 17%**

This category focuses on how universities reduce and manage waste generated through daily campus activities. It emphasizes waste prevention, recycling, and treatment systems that support sustainable campus operations and reduce pollution risks. The scope includes three R initiatives, paper and plastic reduction efforts, organic and inorganic waste treatment, toxic waste handling, and sewage treatment as core elements of accountable waste governance on campus.

### 3.1. 3R (Reduce, Reuse, Recycle) program for university waste (WS.1)

Please select the option that best reflects your university's current efforts to encourage staff and students to practice the 3R (Reduce, Reuse, and Recycle):

- [1] None
- [2] 3R program in preparation
- [3] 3R program 1%–50% implemented
- [4] 3R program >50%–75% implemented
- [5] 3R program >75% implemented

**Recommended evidence includes** policy documents, campaign materials, photos of facilities, and program reports.

**Evidence is required**

### 3.2. Total volume of paper and plastic produced this year (tons)

Please provide the total volume of paper and plastic produced in the last 12 months across your entire university area (tons).

**Evidence is required**

### 3.3. Total volume of paper and plastic produced last year (tons)

Please provide the total volume of paper and plastic produced in the previous year across your entire university (in tons).

**Evidence is required**

### 3.4. Program to reduce the use of paper and plastic on campus (WS.2)

Please select the option that best reflects your university's current programs and/or formal policies to reduce the use of paper and plastic (e.g., double-sided printing, paperless meetings, digital notes/books, reusable tumblers, reusable bags, eco-friendly packaging, "print only when necessary," reusable goodie bags):

- [1] None
- [2] 1–3 programs
- [3] 4–6 programs
- [4] 7–10 programs
- [5] More than 10 programs

**Recommended evidence includes** policy documents, circular letters, posters, program documentation, photos, and/or procurement records.

**Evidence is required**

### 3.5. Total volume of organic waste produced this year (tons)

Please provide the total volume of organic waste produced in the last 12 months across your university area (tons).

**Evidence is required**

### 3.6. Total volume of organic waste produced last year (tons)

Please provide the total volume of organic waste produced in the previous year across your university (in tons).

**Evidence is required**

### 3.7. Total volume of organic waste treated this year (tons)

Please provide the total volume of organic waste treated in the last 12 months across your entire university area (tons).

**Evidence is required**

### 3.8. Organic waste treatment (WS.3)

This indicator assesses how a university manages organic waste (e.g., food waste, vegetable waste, plant matter, and other biodegradable waste).

Please select the option that best describes your university's overall treatment of the **majority of organic waste**:

- [1] Open dumping
- [2] Partial (1%–35% treated)
- [3] Partial (>35%–65% treated)
- [4] Partial (>65%–85% treated)
- [5] Extensive (>85% treated)

**Recommended evidence:** treatment facility documentation, photographs, contracts with service providers, and campus maps showing facility locations (if relevant).

**Evidence is required**

### 3.9. Total volume of inorganic waste produced this year (tons)

Please provide the total volume of inorganic waste produced in the last 12 months across your entire university (in tons).

**Evidence is required**

### 3.10. Total volume of inorganic waste produced last year (tons)

Please provide the total volume of inorganic waste produced in the previous year across your entire university (tons).

**Evidence is required**

### 3.11. Total volume of inorganic waste treated this year (tons)

Please provide the total volume of inorganic waste treated in the last 12 months across your entire university area (tons).

**Evidence is required**

### 3.12. Inorganic waste treatment (WS.4)

Please describe the treatment method for **non-toxic inorganic waste** (e.g., paper, plastic, metal, glass, and e-waste that is not classified as hazardous).

Please select the option that best describes your university's overall treatment of the **majority of inorganic waste**:

[1] Burned in open areas

[2] Partial (1%–35% treated)

[3] Partial (>35%–65% treated)

[4] Partial (>65%–85% treated)

[5] Extensive (>85% treated)

**Recommended evidence includes** waste management reports, contracts with recyclers, photos of sorting stations, and campus maps (if relevant).

**Evidence is required**

### 3.13. Total volume of toxic waste produced this year (tons)

Please provide the total volume of toxic (hazardous) waste produced in the last 12 months across your entire university (in tons).

**Evidence is required**

### 3.14. Total volume of toxic waste produced last year (tons)

Please provide the total volume of toxic (hazardous) waste produced in the previous year across your entire university (tons).

**Evidence is required**

### 3.15. Total volume of toxic waste treated this year (tons)

Please provide the total volume of toxic (hazardous) waste treated in the last 12 months across your entire university (in tons).

**Evidence is required**

### 3.16. Toxic waste treatment (WS.5)

Please select the option that best reflects how your university handles toxic (hazardous) waste (e.g., batteries, fluorescent lamps, and laboratory chemical waste). This includes whether toxic waste is separated, documented and transferred to certified third-party handlers.

[1] Not managed

[2] Partial (1%–35% treated)

[3] Partial (>35%–65% treated)

[4] Partial (>65%–85% treated)

[5] Extensive (>85% treated) **or** the campus generates a minimal amount of toxic waste

**Recommended evidence includes** hazardous waste SOPs, manifests/logbooks, contracts with certified companies, photos of labelled storage areas, and permits (if available).

**Evidence is required**

### 3.17. Sewage disposal (WS.6)

Please describe the primary method of sewage treatment at your university in detail. Select the option that best describes how most of the **sewage** is treated and disposed of:

[1] Untreated discharge into waterways

[2] Treated with preliminary treatment

[3] Treated with primary treatment

[4] Treated with secondary treatment

[5] Treated with tertiary treatment

#### **Notes (definitions and examples of evidence):**

- **Preliminary treatment:** screening (large solids), grit removal (sand/heavy materials), and oil/grease removal.

*Evidence:* Photos or documentation of screens/grit chambers.

- **Primary treatment:** sedimentation and/or coagulation–flocculation.

*Evidence:* diagrams or operational records of the sedimentation tanks.

- **Secondary treatment:** Biological processes (attached or suspended growth), such as activated sludge or biofilters.

*Evidence:* Reports/photos of biological treatment units and monitoring records.

- **Tertiary treatment:** advanced treatment enabling reuse (disinfection, filtration, and advanced oxidation).

*Evidence:* Water quality test results and system descriptions showing the final polishing processes.

**Evidence is required**

### 3.18. Impact of Waste Management programs in supporting the SDGs

Please indicate the extent to which your Waste Management (WS) programs contribute to the UN Sustainable Development Goals (SDGs). Select the option that best reflects the number of SDGs directly supported.

- [1] Low impact (supporting 1–2 SDGs)
- [2] Moderate impact (supporting 3–5 SDGs)
- [3] Significant impact (supporting 6–9 SDGs)
- [4] High impact (supporting 10–13 SDGs)
- [5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

## 4. Water (WR) — 11%

This category assesses water stewardship and ecosystem protection within and around the campus environment. It encourages universities to reduce groundwater use, strengthen water conservation, expand recycling or reuse, and protect surrounding habitats and ecosystems. Indicators include water absorption areas, conservation programs, recycling implementation, water-efficient appliances, treated water consumption, and water pollution control to support responsible water management and reduce environmental pressure.

### 4.1. Total area on campus for water absorption besides forest and planted vegetation (WR.1)

Please provide the percentage of ground surfaces on campus that support **water absorption** (e.g., soil, grass, permeable paving blocks, infiltration areas, and synthetic fields designed for drainage), excluding forest and planted vegetation areas already counted under SI indicators. A larger water absorption area is desirable.

**Evidence may include** campus maps, site plans, or documentation showing the locations and sizes of water absorption areas.

Please select one option and provide the **total area (m<sup>2</sup>)**:

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- [1]  $\leq 2\%$  (provide total area in  $m^2$ )
- [2]  $> 2\%$ – $10\%$  (provide total area in  $m^2$ )
- [3]  $> 10\%$ – $20\%$  (provide total area in  $m^2$ )
- [4]  $> 20\%$ – $40\%$  (provide total area in  $m^2$ )
- [5]  $> 40\%$  (provide total area in  $m^2$ )

**Evidence is required**

#### 4.2. Water conservation program and implementation (WR.2)

Please select the option that best describes your university's current stage of a **systematic and formal water conservation program** (e.g., lake/pond management systems, rainwater harvesting, water tanks, biopores, recharge wells, infiltration wells, or other conservation infrastructure):

**Evidence may include** policies, implementation reports, photographs, technical drawings, and campus maps showing system locations.

- [1] None (the program is needed, but no action has been taken)
- [2] Program in preparation
- [3]  $1\%$ – $25\%$  water conserved
- [4]  $> 25\%$ – $50\%$  water conserved
- [5]  $> 50\%$  water conserved

**Evidence is required**

#### 4.3. Water recycling program implementation (WR.3)

This indicator assesses whether the university has formal policies and implementation for **water recycling/reuse** (e.g., using recycled water for toilet flushing, vehicle washing, landscape irrigation, or other non-potable uses).

**Evidence may include** policies, SOPs, reuse system documentation, photographs, and campus maps.

Please select one option:

- [1] None (the program is needed, but no action has been taken)
- [2] Program in preparation
- [3]  $1\%$ – $25\%$  water recycled
- [4]  $> 25\%$ – $50\%$  water recycled
- [5]  $> 50\%$  water recycled

**Evidence is required**

#### 4.4. Water-efficient appliances usage (WR.4)

This indicator measures the extent to which conventional fixtures are replaced with **water-efficient appliances** (e.g., sensor/automatic taps, low-flow faucets, dual-flush or high-efficiency toilets, and water-saving showerheads).

**Evidence may include** procurement records, photographs, inventory lists, and/or maps showing installation locations.

Please select one option:

[1] < 20% of water-efficient appliances installed

[2] 20%–40% installed

[3] > 40%–60% installed

[4] > 60%–80% installed

[5] > 80% installed

**Evidence is required**

#### 4.5. Consumption of treated water (WR.5)

Please indicate the percentage of **treated water consumed** compared with all water sources used by your university (e.g., rainwater tanks, groundwater, surface water, municipal supply). Treated water may come from treatment systems located **on campus and/or outside campus**, as long as the university uses the treated water.

**Evidence may include** water bills, treatment system reports, meter readings, and water source documentation.

Please select one option:

[1] None

[2] 1%–25% treated water consumed

[3] > 25%–50% treated water consumed

[4] > 50%–75% treated water consumed

[5] > 75% treated water consumed

**Evidence is required**

#### 4.6. Water pollution control in campus area (WR.6)

Please indicate the stage of your university's **water pollution control efforts** to prevent polluted water from entering the campus water system and the surrounding waterways. Polluted water may include stormwater runoff contaminated with litter or

chemicals, laboratory wastewater containing hazardous substances, and drainage contaminated by oil and grease from parking areas.

Examples of relevant measures include water quality monitoring (physical, chemical, and biological parameters), stormwater management, wastewater treatment improvement, and pollution prevention programs.

**Evidence may include** monitoring reports, laboratory waste management systems, SOPs, photographs, and campus drainage/system maps.

Please select one option:

- [1] Policy and programs for water pollution control are in the designing stage
- [2] Policy and programs for water pollution control are in the construction stage
- [3] Policy and programs for water pollution control are in the early implementation stage
- [4] Policy and programs for water pollution control are fully implemented and monitored occasionally
- [5] Policy and programs for water pollution control are fully implemented and monitored regularly

**Evidence is required**

#### **4.7. Impact of Water Management programs in supporting the SDGs**

Please indicate the extent to which your university Water Management (WR) programs contribute to the UN Sustainable Development Goals (SDGs). Select the option that best reflects the number of SDGs directly supported.

- [1] Low impact (supporting 1–2 SDGs)
- [2] Moderate impact (supporting 3–5 SDGs)
- [3] Significant impact (supporting 6–9 SDGs)
- [4] High impact (supporting 10–13 SDGs)
- [5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

#### **5. Transportation (TR) — 17%**

Transportation indicators address the relationship between mobility, campus emissions, and local air quality. This category promotes policies and programs that reduce dependence on private motor vehicles while improving access to lower-emission options, such as campus shuttles, shared mobility, and zero-emission transport (e.g., bicycles and electric vehicles). It also highlights pedestrian-friendly

design and better access to environmentally friendly public transport as practical ways to reduce the campus carbon footprint and improve health outcomes.

### **5.1. Number of cars actively used and managed by the university**

Please indicate the number of cars operated on campus that are **owned and managed by the university**, including vehicles operated through third-party service providers on behalf of the university.

**Please count only cars with emissions** (i.e., cars with internal combustion engines).

### **5.2. Number of cars entering the university daily**

Please indicate the **average number of cars** that enter your campus daily. Use a **balanced sampling period** that considers both regular academic days and holiday/term breaks.

**Please count only cars with emissions** (i.e., cars with internal combustion engines).

### **5.3. Number of motorcycles entering the university daily**

Please indicate the **average number of motorcycles/motorbikes** entering your campus per day. Use a **balanced sampling period** that considers both regular academic days and holiday/term breaks.

**Please count only motorcycles/motorbikes with emissions** (i.e., motorcycles/motorbikes with internal combustion engines).

### **5.4. Total number of vehicles with emissions divided by total campus population (TR.1)**

Please calculate the total number of vehicles with emissions, divided by the total campus population.

**Formula:**  $TR1 = (5.1 + 5.2 + 5.3) / (1.11 + 1.13)$

Please select one option:

[1]  $\geq 1$

[2]  $> 0.5-1$

[3]  $> 0.125-0.5$

[4]  $> 0.045-0.125$

[5]  $< 0.045$

**Evidence is required**

### 5.5. Shuttle services (TR.2)

Please describe whether shuttle services are available for travel **within the campus**, including whether the service is **free or paid** and whether it is operated by the university or another party.

**Evidence may include** route maps, shuttle schedules, service policies, photographs, and campus maps showing routes and stops.

If shuttle services are not provided for a positive reason (e.g., the campus area is very small, or another zero-emission transport service is available), please select **“Not applicable.”**

[1] Possible, but not provided by the university

[2] Provided (by the university or other parties), regular, but not free

[3] Provided (by the university or other parties), and the university subsidizes part of the cost

[4] Provided by the university, regular, and free

[5] Provided by the university, regular, and operated using zero-emission vehicles; **or shuttle use is not applicable**

**Evidence is required**

### 5.6. Number of shuttles operating in the university

Please indicate the number of campus shuttles operating at your university. Shuttles may include buses, MPVs, or minivans that operate within the campus.

### 5.7. Average number of passengers per shuttle trip

Please indicate the average number of passengers per trip for each shuttle bus. This can be estimated based on seat capacity and typical occupancy.

### 5.8. Total number of shuttle trips per day

Please indicate the total number of trips per day for each shuttle service in the table.

### 5.9. Zero Emission Vehicles (ZEV) availability on campus (TR.3)

Please describe the extent to which your university supports the use of **Zero Emission Vehicles (ZEV)** for transportation on campus (e.g., bicycles, e-bikes, e-scooters, and electric vehicles such as electric cars and motorcycles; other non-emitting mobility options may also be included where relevant).

Please select one option:

[1] ZEV are not available

[2] ZEV use is not possible or practical

[3] ZEV are available, but not provided by the university

[4] ZEV are available, provided by the university, and charged (paid use)

[5] ZEV are available and provided by the university for free\*

\*Regularly used by the campus community.

**Evidence is required**

### **5.10. Average number of Zero Emission Vehicles (ZEV) on campus per day**

Please indicate the average daily number of ZEV on your campus, including both **university-owned and privately owned** vehicles.

### **5.11. Total number of ZEV divided by total campus population (TR.4)**

Please calculate the total number of ZEV divided by the total campus population.

**Formula:**

$$\text{TR4} = 5.10 / (1.11 + 1.13)$$

Please select one option:

[1]  $\leq 0.002$

[2]  $> 0.002-0.004$

[3]  $> 0.004-0.008$

[4]  $> 0.008-0.02$

[5]  $> 0.02$

### **5.12. Total ground parking area (m<sup>2</sup>)**

Please provide the total area of ground-level parking on campus (in square meters). This area can be estimated or validated using mapping tools (e.g., satellite imagery).

### **5.13. Ratio of ground parking area to total campus area (TR.5)**

Please calculate the ratio of the parking area to the total campus area.

**Formula:**  $(5.12 / 1.5) \times 100\%$

**Evidence may include** campus maps, site plans, or annotated images of parking areas.

Please select one option:

[1] > 11%

[2] > 7%–11%

[3] > 4%–7%

[4] > 1%–4%

[5] < 1%

**Evidence is required**

#### **5.14. Program to limit or decrease parking area in the last 3 years (TR.6)**

Please select the option that best reflects your university's program to limit or reduce parking areas in the last three years.

**Evidence may include** campus maps showing reduced areas and before and after documentation.

[1] None

[2] In preparation

[3] Less than 10% decrease in parking area

[4] 10%–30% decrease in parking area

[5] More than 30% decrease in parking area, or parking area reduction has reached its practical limit

**Evidence is required**

#### **5.15. Number of initiatives to decrease private vehicles on campus (TR.7)**

Please select the option that best reflects your university's initiatives to reduce the use of private vehicles on campus (e.g., car-free days, car-sharing, increased parking fees, public transport integration, bike-sharing, low-fare subscriptions, and restrictions on student vehicles).

[1] No initiative

[2] 1 initiative

[3] 2 initiatives

[4] 3 initiatives

[5] > 3 initiatives, or initiative is no longer required

**Evidence is required**

### 5.16. Pedestrian path on campus (TR.8)

Please describe the extent to which pedestrian pathways are available and supported on the campus.

**Evidence may include** pedestrian network maps, photographs, and campus maps showing pedestrian routes.

Please select one option:

[1] None

[2] Available

[3] Available and designed for safety

[4] Available and designed for safety and convenience

[5] Available, designed for safety, convenience, and in some parts provided with disabled-friendly features

#### Notes (definitions):

- **Safety:** adequate lighting, separation from vehicle lanes, and handrails where required
- **Convenience:** gentle slopes/ramps, partial shading/covered paths, comfortable walking surfaces (e.g., rubber or wood), and clear wayfinding and signage
- **Disability-friendly:** ramps and guiding blocks with appropriate designs for people with physical disabilities.

**Evidence is required**

### 5.17. Approximate daily travel distance of vehicles inside the campus only (km)

Please provide the approximate daily travel distance (in kilometers) of vehicles operating **within the campus area only** (e.g., buses, cars, and motorcycles).

### 5.18. Impact of Transportation programs in supporting the SDGs

Please indicate how strongly your transportation (TR) programs contribute to the UN Sustainable Development Goals (SDGs), based on the number of SDGs directly supported.

[1] Low impact (supporting 1–2 SDGs)

[2] Moderate impact (supporting 3–5 SDGs)

[3] Significant impact (supporting 6–9 SDGs)

[4] High impact (supporting 10–13 SDGs)

[5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

## 6. Education and Research (ED) — 13%

This category provides baseline information on how universities build sustainability awareness and capacity through education, research, and related academic activities. It encourages institutions to document and communicate sustainability-related teaching, research outputs, events, and engagement activities as part of their sustainability strategy and accountability. In practice, the category helps demonstrate how sustainability is integrated into institutional learning and knowledge production, including how activities and targets are communicated to internal and external stakeholders.

### 6.1. Number of sustainability-related courses/subjects offered

Please report the number of courses/subjects whose content is related to sustainability offered by your university. Some universities have already tracked this information.

A course may be counted as sustainability-related if sustainability themes (environmental, social, cultural, and/or economic) are a meaningful part of the learning outcomes—not just a brief mention. You may identify relevant courses using sustainability-related keywords in the course titles or descriptions.

**Example:** *Environmental Chemistry* can be counted as a sustainability-related course within a chemistry program.

**Evidence is required**

### 6.2. Total number of courses/subjects offered

Please report the total number of courses/subjects offered by your university in an academic year. This figure was used to determine the proportion of sustainability-related education within the university's teaching and learning activities.

**Evidence is required**

### 6.3. Total number of sustainability-related study program offered

Please report the total number of study programs related to sustainability offered by your university. This information helps to describe how sustainability is represented across the university's academic offerings.

**Evidence is required**

#### 6.4. Ratio of sustainability-related courses to total courses/subjects (ED.1)

Please calculate the percentage of sustainability-related courses compared with the total number of courses/subjects.

**Formula:**  $(6.1 / 6.2) \times 100\%$

Please select one option:

[1]  $\leq 1\%$

[2]  $> 1-5\%$

[3]  $> 5-10\%$

[4]  $> 10-20\%$

[5]  $> 20\%$

#### 6.5. Total research funds dedicated to sustainability research (USD)

Please provide the **average annual amount** of research funding dedicated to sustainability research over the past **three years**.

**Evidence is required**

#### 6.6. Total research funds (USD)

Please provide the **average annual total** research funding for the last **three years**. This will be used to calculate the share of sustainability research funding relative to the overall research funding.

**Evidence is required**

#### 6.7. Ratio of sustainability research funding to total research funding (ED.2)

Please calculate the percentage of sustainability research funding compared to the total research funding.

**Formula:**  $(6.5 / 6.6) \times 100\%$

Please select one option:

[1]  $\leq 1\%$

[2]  $> 1-10\%$

[3]  $> 10-20\%$

[4]  $> 20-40\%$

[5]  $> 40\%$

### 6.8. Number of lecturers and researchers in one year

Please provide the total number of lecturers and researchers for the reporting year. Evidence is required.

**Evidence is required**

### 6.9. Number of scholarly publications on sustainability in one year

Please provide the total number of indexed scholarly publications on sustainability for the reporting year. Data may be obtained from Google Scholar, Scopus, or other indexing services using keywords such as **green, environment, sustainability, renewable energy, and climate change.**

**Evidence is required**

### 6.10. Ratio of sustainability publications to lecturers and researchers (ED.3)

The ratio is calculated by dividing the number of sustainability publications (6.9) by the total number of lecturers and researchers (6.8) during the same one-year period.

**Formula:** 6.9 / 6.8

Please select one option:

[1] < 0.5

[2] 0.5–1

[3] > 1–2

[4] > 2–3

[5] > 3

**Evidence is required**

### 6.11. Number of sustainability-related events (ED.4)

Please report the average annual number of sustainability-related events hosted or organized by your university over the last three years (e.g., conferences, workshops, awareness campaigns, practical training, and festivals). Please select one option:

[1] 0

[2] 1–5

[3] 6–20

[4] 21–50

[5] > 50

**Evidence is required**

### **6.12. Student organisation activities related to sustainability per year (ED.5)**

Please report the number of sustainability-related activities organized by student organizations (faculty- or university-level) per year. Examples include seminars, webinars, training, sports events, bazaars promoting recycled materials and community outreach activities.

Please select one option:

[1] 0

[2] 1–5

[3] 6–10

[4] 11–20

[5] > 20

**Evidence is required**

### **6.13. Number of cultural activities on campus (ED.6)**

Public access to campus facilities during cultural activities may indicate the broader societal impact of the university's campus environment and sustainability efforts. Cultural activities may also be related to sustainability themes. Evidence can be provided as a table or a list of activities.

Please report the number of cultural activities held on campus per year (e.g., cultural festivals, theatre, music performances, exhibitions).

Please select one option:

[1] None

[2] 1–3 events per year

[3] 4–6 events per year

[4] 7–10 events per year

[5] More than 10 events per year

**Evidence is required**

### **6.14. University sustainability programs with international collaboration (ED.7)**

Please report the number of university sustainability programs with international collaborations per year. Examples include joint research, online courses, educational trips, dual-degree programs, student/staff exchanges, and internships.

Evidence may include MoUs/MoAs, official letters, or event materials showing institutional involvement (e.g., logos and co-hosting information).

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Please select one option:

- [1] None
- [2] 1–3 programs per year
- [3] 4–6 programs per year
- [4] 7–10 programs per year
- [5] More than 10 programs per year

**Evidence is required**

### **6.15. Community service projects related to sustainability involving students (ED.8)**

Please report the number of sustainability-related community service projects organized by the university that involve students per year.

Please select one option:

- [1] None
- [2] 1–3 projects per year
- [3] 4–6 projects per year
- [4] 7–10 projects per year
- [5] More than 10 projects per year

**Evidence is required**

### **6.16. Number of sustainability-related start-ups (ED.9)**

Please report the number of sustainability-related start-ups initiated and managed by your university. Start-ups may be profit or non-profit, digital or non-digital, and may involve students. Only start-ups established within the last **three years** were counted.

Evidence may include the start-up's establishment date, operating period, annual revenue (if available), and the number of employees. Please select one option:

- [1] None
- [2] 1–5 start-ups
- [3] 6–10 start-ups
- [4] 11–15 start-ups
- [5] More than 15 start-ups

**Evidence is required**

### 6.17. Total number of graduates with green jobs (last 3 years)

Please report the total number of graduates who obtained **green jobs** in the past three years. Green jobs are decent jobs that help preserve or restore the environment, including roles in traditional (e.g., manufacturing and construction) and emerging (e.g., renewable energy and energy efficiency) sectors.

Green jobs may contribute to improving energy and material efficiency, reducing greenhouse gas emissions, minimizing waste and pollution, protecting ecosystems, and supporting climate change adaptation.

Evidence may be provided as a table or list (e.g., graduation year, industry/sector, and distribution).

**Evidence is required**

### 6.18. Total number of graduates (last 3 years)

Please report the total number of university graduates over the past three years, regardless of the employment sector. Evidence may be provided in the form of tables or lists.

**Evidence is required**

### 6.19. Percentage of graduates with green jobs (last 3 years) (ED.10)

Please calculate the percentage of graduates with green jobs over the past three years, compared to the total number of graduates in the same period.

**Formula:**  $(6.17 / 6.18) \times 100\%$

Please select one option:

[1]  $\leq 1\%$

[2]  $> 1-5\%$

[3]  $> 5-10\%$

[4]  $> 10-20\%$

[5]  $> 20\%$

**Evidence is required**

### 6.20. Impact of Education and Research programs in supporting the SDGs

Please indicate how strongly your Education and Research (ED) programs contribute to the UN Sustainable Development Goals (SDGs) based on the number of SDGs directly supported.

[1] Low impact (supporting 1–2 SDGs)

- [2] Moderate impact (supporting 3–5 SDGs)
- [3] Significant impact (supporting 6–9 SDGs)
- [4] High impact (supporting 10–13 SDGs)
- [5] Very high impact (supporting 14–17 SDGs)

**Evidence is required**

## 7. Governance and Digitalization (GD) — 11%

Governance and Digitalization capture the institutional enablers that support sustainability implementation, including governance structures, transparency, and the use of digital approaches. It measures how universities strengthen sustainability awareness and implementation among students, academic staff, and professional staff through policies, systems, and institutional arrangements. The category also encourages universities to publish sustainability and financial reports and communicate strategies, targets, and progress transparently to stakeholders as part of accountable sustainability governance.

### 7.1. Total university budget (USD)

Please provide the **average annual university budget** over the last **three years** ( USD).

### 7.2. University budget for sustainability efforts (USD)

Please provide the **average annual budget** allocated to sustainability efforts over the last **three years** ( USD). This may include infrastructure, facilities, personnel costs, research, programs, and other sustainability-related expenditures.

Where possible, please break down the sustainability budget by the **UI GreenMetric category** (SI, EC, WS, WR, TR, ED, GD). For each category, please state the following:

- the amount allocated (USD), and
- Percentage of the **total sustainability budget**.

### 7.3. Percentage of university budget for sustainability efforts (GD1)

Please calculate the percentage of the sustainability budget (as described in Section 7.2) compared to the total university budget (Section 7.1).

**Formula:**  $(7.2 / 7.1) \times 100\%$

Please select one option:

[1]  $\leq 1\%$

- [2] > 1–5%
- [3] > 5–10%
- [4] > 10–15%
- [5] > 15%

#### 7.4. University-run sustainability website (GD2)

If your university has a sustainability website, please provide the website address here. A good sustainability website may include information such as sustainability programs, plans, targets, achievements, and updates that help educate students and staff and inform external stakeholders.

Please select one option:

- [1] Not available
- [2] Website in progress or under construction
- [3] Website is available and accessible
- [4] Website is available, accessible, and updated occasionally
- [5] Website is available, accessible, and updated regularly

#### 7.5. Sustainability website URL (if available)

Please provide the URL of your university's sustainability website.

**Evidence is required**

#### 7.6. Sustainability report (GD3)

Please provide a sustainability report. The report may be based on SDGs reporting and/or UI GreenMetric indicators. At a minimum, it should describe the university's vision, strategy, policies, programs, and implementation. Regular annual reporting should be demonstrated for at least the past **three years**. Clear information on targets and achievements is strongly encouraged.

Please select one option:

- [1] Not available
- [2] Sustainability report is in preparation
- [3] Available but not publicly accessible
- [4] Sustainability report is accessible and published occasionally
- [5] Sustainability report is accessible and published annually

**Evidence is required**

<https://uigreenmetric.com>

### 7.7. Sustainability report URL (if available)

Please provide a URL link to your sustainability report.

**Evidence is required**

### 7.8. Financial report (GD4)

Please provide the university's official financial report for the most recent fiscal year. The report should be formally approved by an authorized university body and clearly present institutional revenue, expenditure, and budget allocation. If publicly available, please include the direct URL link to the data.

Please select one option:

- [1] Not available
- [2] Financial report is in preparation
- [3] Available but not publicly accessible
- [4] Financial report is accessible and published occasionally
- [5] Financial report is accessible and published annually

**Evidence is required**

### 7.9. Financial report URL (if available)

Please provide a URL link to your financial report.

**Evidence is required**

### 7.10. Availability of unit or office that coordinate sustainability on campus (GD5)

Please describe whether your university has a unit or office that coordinates sustainability programs. Evidence may include an official decree/letter of establishment, organizational structure, duties, and a summary of programs or work plans.

Please select one option:

- [1] Ad hoc / task force
- [2] Unit or office under in development
- [3] Unit or office with university leader decree of establishment, structure and duties at early stage
- [4] Unit or office with university leader decree of establishment, structure and duties has been operational

[5] Unit or office with university leader decree of establishment, structure and duties has been operational and lead the university implementation of sustainability

**Evidence is required**

#### **7.11. Number of dedicated staff supporting sustainability coordination**

Please provide the total number of staff formally assigned to the unit/office responsible for coordinating sustainability initiatives. Staff may include full-time or part-time personnel with official sustainability coordination responsibilities.

#### **7.12. Use of ICT for sustainability program planning, implementation, monitoring and evaluation (GD6)**

Please provide information on how ICT is used to support the planning, implementation, monitoring, and evaluation of sustainability programs aligned with the UI GreenMetric criteria (e.g., digital platforms, dashboards, systems, applications)

Please select one option:

- [1] None
- [2] Planning stage
- [3] Implemented
- [4] Implemented and evaluated
- [5] Implemented, evaluated, and currently being revised/improved

**Evidence is required**

#### **7.13. Policy of advanced digital technologies usage, such as Artificial Intelligence and Internet of Things, to support decision-making, operational efficiency, and service delivery across university administrative and academic business processes (GD7)**

Please provide information on university policies related to the use of advanced digital technologies (e.g., AI and IoT) to support decision-making, operational efficiency, and service delivery in administrative and academic processes.

- [1] No policy
- [2] Initial adoption of policy. Limited policy implementation in specific units.
- [3] Partial implementation. Policy is used in several administrative or academic processes but are not integrated institution-wide.
- [4] Broad implementation. Policy is integrated across multiple administrative and academic functions and support routine decision-making and service delivery.

[5] Advanced and integrated implementation. Policy implemented institution-wide, systematically support strategic decision-making, operational optimization, and service delivery, and are continuously evaluated and improved.

**Evidence is required**

#### **7.14. Compliance with the General Data Protection Regulation (GDPR) or equivalent national data protection regulations**

Please provide information on the university's compliance with data protection regulations (e.g., GDPR, PDP, ISO or equivalent national/local regulations). Evidence may include policies, procedures, consent mechanisms, privacy notices, and institutional structures for data protection and privacy management.

Please select the option that best reflects your current level of compliance/implementation:

- [1] No data protection policy or mechanism is in place
- [2] Compliance framework is in preparation, including draft policies or procedures
- [3] Compliance is partially implemented, with policies in place but limited enforcement or coverage
- [4] Compliance is fully implemented, monitored, and applied across most university units and digital systems
- [5] Compliance is fully implemented, regularly audited, continuously improved, and transparently communicated to stakeholders

**Evidence is required**

#### **7.15. Total number of institutional leaders and deputy leaders**

Please provide the total number of institutional leaders and deputy leaders at all levels, including university, faculty, study program, and university-level units.

**Evidence is required**

#### **7.16. Number of female representation on leadership position**

Please provide the total number of female leaders holding leadership or deputy leadership positions at the university, faculty, study program and university-level units.

**Evidence is required**

### 7.17. Ratio of female leaders to total institutional leaders (GD8)

Please calculate the percentage of female leaders compared to the total number of institutional leaders based on Equations 7.15 and 7.16.

**Formula:**  $(7.16 / 7.15) \times 100\%$

Please select one option:

- [1]  $\leq 5\%$
- [2]  $> 5-20\%$
- [3]  $> 20-35\%$
- [4]  $> 35-50\%$
- [5]  $> 50\%$

### 7.18. Anti-corruption and integrity system of the university (GD9)

Please provide information on the existence and implementation of anti-corruption and integrity systems at the university. Evidence may include policies, regulations, institutional units, reporting mechanisms and integrity programs.

Please select one option:

- [1] None
- [2] The anti-corruption and integrity system is currently in the planning stage
- [3] The anti-corruption and integrity system has been implemented
- [4] The anti-corruption and integrity system has been implemented and evaluated
- [5] The anti-corruption and integrity system has been implemented, evaluated, and is currently revised

**Evidence is required**

### 7.19. Whistleblowing and complaint system of the university (GD10)

Please provide information on the availability and implementation of a whistleblowing and complaints system. Evidence may include reporting channels, procedures, and official platforms for submitting complaints or reports of sexual harassment.

Please select one option:

- [1] None
- [2] Whistleblowing and complaint system is currently in the planning stage
- [3] Whistleblowing and complaint system has been implemented
- [4] Whistleblowing and complaint system has been implemented and evaluated

[5] Whistleblowing and complaint system has been implemented, evaluated, and is currently revised

**Evidence is required**

### **7.20. LMS-enabled digital literacy program for student and staff (GD11)**

Please provide information on digital literacy programs for students, academic staff and administrative staff. Programs may include training, courses, workshops, and institutional initiatives related to digital skills and the responsible use of technology.

Please select one option:

- [1] None
- [2] The program is currently in the planning stage
- [3] Program has been implemented
- [4] Program has been implemented and evaluated
- [5] Program has been implemented, evaluated, and is currently revised

**Evidence is required**

### **7.21. Written code of ethics that applies to university leaders, academic staff, administrative staff, and students (GD12)**

Please provide information on the availability of a written code of ethics that applies to university leaders, academic staff, administrative staff, and students. Evidence may include official documents, regulations, and institutional policies.

Please select one option:

- [1] No written code of ethics is available
- [2] A code of ethics is in preparation or draft form
- [3] A written code of ethics is formally established, but applies only to certain groups or is not consistently enforced
- [4] A written code of ethics applies to all groups and is implemented and monitored
- [5] A written code of ethics applies to all groups, is fully implemented, regularly reviewed, and actively enforced through institutional mechanisms

**Evidence is required**

## Data Submission

Please submit the most recent **annual data** available based on your university's **12-month data collection cycle** (e.g., for Questions 1.19, 2.6, and 2.8), unless a different reporting period is specifically requested.

## Evidence Guidelines

This is the **eighth year** in which we have required evidence to accompany the questionnaire. Evidence is used to support the data submitted during the review process by our assessors. Please read the following guidelines carefully.

1. **Evidence is mandatory**, except for certain questions where evidence may be optional or uploaded separately. Missing evidence may result in a **reduced score** or a decline in the score for that item.
2. All evidence should follow the template provided at: <https://bit.ly/UIGreenmetricEvidences2026>
3. Evidence may be submitted in the form of **photographs, graphs, tables, datasets, documents**, or other relevant materials.
4. Please include a **clear quantitative explanation** for each piece of evidence (e.g., numbers, percentages, total area, counts, dates, or measured results) to support what is shown in the figure.
5. Evidence may also include **campus maps** showing the location, area size, or distribution of facilities relevant to each indicator.
6. All descriptions must be written in **English**. If the original document is not in English, please provide an **English translation**.
7. Please note that the maximum file size for each evidence file is **2 MB**, and the accepted formats are **.pdf**. If you prefer to provide a link as evidence, please make sure the link can be accessed publicly.

## Acknowledgments

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## Appendix 1

Below are how we score your data. Please note that the final score will be based on our validators' review. Details of the scoring are described as follows:

No	Category and Indicator	Point	Score	Weight
<b>1</b>	<b>Setting and Infrastructure (SI)</b>			<b>11%</b>
<b>SI1</b>	<b>The ratio of open space area to total area</b>	<b>200</b>		
	≤ 1%		0.05x200	
	> 1 - 80%		0.25x200	
	> 80 - 90%		0.50x200	
	> 90 - 95%		0.75x200	
	> 95%		1.00x200	
<b>SI2</b>	<b>Total area on campus covered in forest vegetation used for research, teaching, and/or community engagement</b>	<b>100</b>		
	≤ 2%		0.05x100	
	> 2 - 10%		0.25x100	
	> 10 - 25%		0.50x100	
	> 25 - 35%		0.75x100	
	> 35%		1.00x100	
<b>SI3</b>	<b>Total area on campus covered in planted vegetation</b>	<b>200</b>		
	≤ 10%		0.05x200	
	> 10 - 20%		0.25x200	
	> 20 - 30%		0.50x200	
	> 30 - 50%		0.75x200	
	> 50%		1.00x200	
<b>SI4</b>	<b>The total open space area divided by total campus population</b>	<b>200</b>		
	≤ 10 m <sup>2</sup> /person		0.05x200	
	> 10 – 20 m <sup>2</sup> /person		0.25x200	
	> 20 – 40 m <sup>2</sup> /person		0.50x200	
	> 40 – 70 m <sup>2</sup> /person		0.75x200	
	> 70 m <sup>2</sup> /person		1.00x200	
<b>SI5</b>	<b>Campus facilities for disabled, special needs and/or maternity care</b>	<b>100</b>		
	None		0	
	Policy is in place		0.25x100	
	Facilities are in the planning stage		0.50x100	
	Facilities are partially available and operated		0.75x100	
	Facilities exist in all buildings and are fully operated		1.00x100	
<b>SI6</b>	<b>Security and safety facilities</b>	<b>100</b>		
	Passive security and safety system		0	
	Security and safety infrastructure (CCTV, emergency hotline/button) available and fully functioning		0.25x100	
	Security and safety infrastructure (CCTV, emergency hotline/button, certified personnel, fire extinguisher, hydrant) available and fully functioning		0.50x100	
	Security and safety infrastructure available and fully functioning and security responding time for accidents, crime, fire, and natural disasters is more than 5 minutes		0.75x100	

	Security and safety infrastructure available and fully functioning and security responding time for accidents, crime, fire, and natural disasters is less than 5 minutes		1.00×100	
<b>SI7</b>	<b>Health infrastructure facilities for students, academics and administrative staff's wellbeing</b>	<b>100</b>		
	Health infrastructure (first aid) is not available		0	
	Health infrastructure (first aid, emergency room, clinic and personnel) are available		0.25×100	
	Health infrastructure (first aid, emergency room, clinic and certified personnel) are available		0.50×100	
	Health infrastructure (first aid, emergency room, clinic, hospital and certified personnel) are available		0.75×100	
	Health infrastructure available (first aid, emergency room, clinic, hospital and certified personnel), system and accessible for public		1.00×100	
<b>SI8</b>	<b>Conservation: plant (flora), animal (fauna) or wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities</b>	<b>100</b>		
	Conservation program in preparation		0.05x100	
	Conservation program 1-25% implemented		0.25×100	
	Conservation program 25-50% implemented		0.50×100	
	Conservation program 50-75% implemented		0.75×100	
	Conservation program >75% implemented		1.00×100	
	<b>Total</b>	<b>1100</b>		
<b>2</b>	<b>Energy and Climate Change (EC)</b>			<b>20%</b>
<b>EC1</b>	<b>Energy efficient appliances usage</b>	<b>200</b>		
	< 1%		0.05x200	
	1 - 25%		0.25×200	
	> 25 - 50%		0.50×200	
	> 50 - 75%		0.75×200	
	> 75%		1.00×200	
<b>EC2</b>	<b>Smart building implementation</b>	<b>300</b>		
	< 1%		0.05x300	
	1 - 25%		0.25×300	
	> 25 - 50%		0.50×300	
	> 50 - 75%		0.75×300	
	> 75%		1.00×300	
<b>EC3</b>	<b>Number of renewable energy sources on campus</b>	<b>300</b>		
	None		0	
	1 source		0.25×300	
	2 sources		0.50×300	
	3 sources		0.75×300	
	> 3 sources		1.00×300	
<b>EC4</b>	<b>Total electricity usage divided by total campus' population (kWh per person)</b>	<b>200</b>		
	≥ 2400 kWh		0.05x200	
	> 1500 - 2400 kWh		0.25×200	
	> 600 - 1500 kWh		0.50×200	
	≥ 250 and < 600 kWh		0.75×200	
	< 250 kWh		1.00×200	

<b>EC5</b>	<b>The ratio of renewable energy production divided by total energy usage per year</b>	<b>200</b>		
	≤ 0.5%		0.05x200	
	> 0.5 - 1%		0.25x200	
	> 1 - 2%		0.50x200	
	> 2 - 25%		0.75x200	
	> 25%		1.00x200	
<b>EC6</b>	<b>Elements of green building implementation as reflected in all buildings</b>	<b>200</b>		
	None (There is no green building implementation in your university)		0	
	1 element		0.25x200	
	2 elements		0.50x200	
	3 elements		0.75x200	
	> 3 elements		1.00x200	
<b>EC7</b>	<b>Greenhouse gas emission reduction program</b>	<b>200</b>		
	None (Reduction program is needed, but nothing has been done)		0	
	Program in preparation		0.25x200	
	Program(s) aims to reduce one out of three scopes emissions (Scope 1 or 2 or 3)		0.50x200	
	Program(s) aims to reduce two out of three scopes emissions (Scope 1 and 2 or Scope 1 and 3 or Scope 2 and 3)		0.75x200	
	Program(s) aimed to reduce all three scopes emissions (Scope 1, 2 and 3)		1.00x200	
<b>EC8</b>	<b>Total carbon footprint divided by total campus' population (metric tons per person)</b>	<b>200</b>		
	≥ 2.05 metric tons		0.05x200	
	> 1.11 - 2.05 metric tons		0.25x200	
	> 0.42 - 1.11 metric tons		0.50x200	
	> 0.10 - 0.42 metric tons		0.75x200	
	< 0.10 metric tons		1.00x200	
<b>EC9</b>	<b>Number of innovative program(s) in energy and climate change</b>	<b>100</b>		
	None		0	
	1 program		0.25x100	
	2 programs		0.50x100	
	3 programs		0.75x100	
	More than 3 programs		1.00x100	
<b>EC10</b>	<b>Impactful university program(s) on climate change</b>	<b>100</b>		
	None		0	
	Program in preparation		0.25x100	
	Provide training, educational materials, seminars/conferences, and activities which are implemented by surrounding communities		0.50x100	
	Provide training, educational materials, seminars/conferences, and activities which are implemented by communities at the national level		0.75x100	

	Provide training, educational materials, seminars/conferences, and activities which are implemented by communities at the international level		1.00×100	
	<b>Total</b>	<b>2000</b>		
<b>3</b>	<b>Waste (WS)</b>			<b>17%</b>
<b>WS1</b>	<b>3R (Reduce, Reuse, Recycle) program for university's waste</b>	<b>200</b>		
	None		0	
	3R program in preparation		0.25×200	
	3R program 1 – 50% implemented		0.50×200	
	3R program > 50 – 75% implemented		0.75×200	
	3R program > 75% implemented		1.00×200	
<b>WS2</b>	<b>Program to reduce the use of paper and plastic on campus</b>	<b>300</b>		
	None		0	
	1 - 3 programs		0.25×300	
	4 - 6 programs		0.50×300	
	7 - 10 programs		0.75×300	
	More than 10 programs		1.00×300	
<b>WS3</b>	<b>Organic waste treatment</b>	<b>300</b>		
	Open dumping		0	
	Partial (1 - 35% treated)		0.25×300	
	Partial (> 35 - 65% treated)		0.50×300	
	Partial (> 65 - 85% treated)		0.75×300	
	Extensive (> 85% treated)		1.00×300	
<b>WS4</b>	<b>Inorganic waste treatment</b>	<b>300</b>		
	Burned in open area		0	
	Partial (1 - 35% treated)		0.25×300	
	Partial (> 35 - 65% treated)		0.50×300	
	Partial (> 65 - 85% treated)		0.75×300	
	Extensive (> 85% treated)		1.00×300	
<b>WS5</b>	<b>Toxic waste treatment</b>	<b>300</b>		
	Not managed		0	
	Partial (1 - 35% treated)		0.25×300	
	Partial (> 35 - 65% treated)		0.50×300	
	Partial (> 65 - 85% treated)		0.75×300	
	Extensive (> 85% treated) or campus produces a minimum amount of toxic waste		1.00×300	
<b>WS6</b>	<b>Sewage disposal</b>	<b>300</b>		
	Untreated into waterways		0	
	Treated with preliminary treatment		0.25×300	
	Treated with primary treatment		0.50×300	
	Treated with secondary treatment		0.75×300	
	Treated with tertiary treatment		1.00×300	
	<b>Total</b>	<b>1700</b>		
<b>4</b>	<b>Water (WR)</b>			<b>11%</b>
<b>WR1</b>	<b>Total area on campus for water absorption besides the forest and planted vegetation</b>	<b>100</b>		
	≤ 2%		0.05×100	
	> 2 - 10%		0.25×100	
	10 - 20%		0.50×100	

	> 20 - 40%		0.75×100	
	> 40%		1.00×100	
<b>WR2</b>	<b>Water conservation program and implementation</b>	<b>200</b>		
	None (Conservation program is needed, but nothing has been done)		0	
	Program in preparation		0.25×200	
	1 - 25% water conserved		0.50×200	
	> 25 - 50% water conserved		0.75×200	
	> 50% water conserved		1.00×200	
<b>WR3</b>	<b>Water recycling program implementation</b>	<b>200</b>		
	None (Water recycling program is needed, but nothing has been done)		0	
	Program in preparation		0.25×200	
	1 - 25% water recycled		0.50×200	
	> 25 - 50% water recycled		0.75×200	
	> 50% water recycled		1.00×200	
<b>WR4</b>	<b>Water efficient appliance usage</b>	<b>200</b>		
	< 20% of water efficient appliances installed		0.05x200	
	20 - 40% of water efficient appliances installed		0.25×200	
	> 40 - 60% of water efficient appliances installed		0.50×200	
	> 60 - 80% of water efficient appliances installed		0.75×200	
	> 80% of water efficient appliances installed		1.00×200	
<b>WR5</b>	<b>Consumption of treated water</b>	<b>200</b>		
	None		0	
	1 - 25% treated water consumed		0.25×200	
	> 25 - 50% treated water consumed		0.50×200	
	> 50 - 75% treated water consumed		0.75×200	
	> 75% treated water consumed		1.00×200	
<b>WR6</b>	<b>Water pollution control in the campus area</b>	<b>200</b>		
	Policy and programs for water pollution control are in the designing stage		0.05x200	
	Policy and programs for water pollution control are in the construction stage		0.25×200	
	Policy and programs for water pollution control are in the early implementation stage		0.50×200	
	Policy and programs for water pollution control are fully implemented and monitored occasionally		0.75×200	
	Policy and programs for water pollution control are fully implemented and monitored regularly		1.00×200	
	<b>Total</b>	<b>1100</b>		
<b>5</b>	<b>Transportation (TR)</b>			<b>17%</b>
<b>TR1</b>	<b>The total number of vehicles (cars and motorcycles with combustion engines) divided by total campus' population</b>	<b>200</b>		
	≥ 1		0	
	> 0.5 - 1		0.25×200	
	> 0.125 - 0.5		0.50×200	
	> 0.045 - 0.125		0.75×200	
	< 0.045		1.00×200	
<b>TR2</b>	<b>Shuttle services</b>	<b>250</b>		
	Possible but not provided by university		0	

	Provided (by university or other parties) and regular but not free		0.25×250	
	Provided (by university or other parties) and the university contributes a part of the cost		0.50×250	
	Provided by university, regular, and free		0.75×250	
	Provided by university, regular, and zero emission vehicle. Or shuttle use is not applicable		1.00×250	
<b>TR3</b>	<b>Zero Emission Vehicles (ZEV) availability on campus</b>	<b>200</b>		
	ZEV are not available		0	
	ZEV use is not possible or practical		0.25×200	
	ZEV are available, but not provided by the university		0.50×200	
	ZEV are available, provided by the university and charged		0.75×200	
	ZEV are available, and provided by the university for free		1.00×200	
<b>TR4</b>	<b>The total number of Zero Emission Vehicles (ZEV) divided by total campus population</b>	<b>200</b>		
	≤ 0.002		0.05×200	
	> 0.002 - 0.004		0.25×200	
	> 0.004 - 0.008		0.50×200	
	> 0.008 - 0.02		0.75×200	
	> 0.02		1.00×200	
<b>TR5</b>	<b>The ratio of the ground parking area to total campus area</b>	<b>200</b>		
	> 11%		0	
	> 7 - 11 %		0.25×200	
	> 4 - 7 %		0.50×200	
	> 1 – 4 %		0.75×200	
	< 1%		1.00×200	
<b>TR6</b>	<b>Program to limit or decrease the parking area on campus for the last 3 years</b>	<b>200</b>		
	None		0	
	In preparation		0.25×200	
	Less than 10% decrease in parking area		0.50×200	
	10 - 30% decrease in parking area		0.75×200	
	More than 30% decrease in parking area or parking area reduction reaching its limit		1.00×200	
<b>TR7</b>	<b>Number of initiatives to decrease private vehicles on campus</b>	<b>200</b>		
	No initiative		0	
	1 initiative		0.25×200	
	2 initiatives		0.50×200	
	3 initiatives		0.75×200	
	> 3 initiatives, or initiative is no longer required		1.00×200	
<b>TR8</b>	<b>Pedestrian path on campus</b>	<b>250</b>		
	None		0	
	Available		0.25×250	
	Available, and designed for safety		0.50×250	
	Available, designed for safety and convenience		0.75×250	
	Available, designed for safety, convenience, and in some parts provided with disabled-friendly features		1.00×250	

	<b>Total</b>	<b>1700</b>		
<b>6</b>	<b>Education and Research (ED)</b>			<b>13%</b>
<b>ED1</b>	<b>The ratio of sustainability courses to total courses/subjects</b>	<b>200</b>		
	≤ 1%		0.05x200	
	> 1 - 5%		0.25x200	
	> 5 - 10%		0.50x200	
	> 10 - 20%		0.75x200	
	> 20%		1.00x200	
<b>ED2</b>	<b>The ratio of sustainability research funding to total research funding</b>	<b>200</b>		
	≤ 1%		0.05x200	
	> 1 - 10%		0.25x200	
	> 10 - 20%		0.50x200	
	> 20 - 40%		0.75x200	
	> 40%		1.00x200	
<b>ED3</b>	<b>Ratio of scholarly publications on sustainability to lecturers/researchers on campus in one year period</b>	<b>200</b>		
	< 0.5		0	
	0.5 - 1		0.25x200	
	> 1 - 2		0.50x200	
	> 2 - 3		0.75x200	
	> 3		1.00x200	
<b>ED4</b>	<b>Number of events related to sustainability (environment)</b>	<b>100</b>		
	0		0	
	1 - 5		0.25x100	
	6 - 20		0.50x100	
	21 - 50		0.75x100	
	> 50		1.00x100	
<b>ED5</b>	<b>Number of activities organized by student organizations related to sustainability per year</b>	<b>150</b>		
	0		0	
	1 - 5		0.25x150	
	6 - 10		0.50x150	
	11 - 20		0.75x150	
	> 20		1.00x150	
<b>ED6</b>	<b>Number of cultural activities on campus</b>	<b>100</b>		
	None		0	
	1 - 3 events per year		0.25x100	
	4 - 6 events per year		0.50x100	
	7 - 10 events per year		0.75x100	
	More than 10 events per year		1.00x100	
<b>ED7</b>	<b>Number of university sustainability program(s) with international collaborations</b>	<b>100</b>		
	None		0	
	1 - 3 programs per year		0.25x100	
	4 - 6 programs per year		0.50x100	
	7 - 10 programs per year		0.75x100	
	More than 10 programs per year		1.00x100	

<b>ED8</b>	<b>Number of community services related to sustainability organized by university and involving students</b>	<b>100</b>		
	None		0	
	1 - 3 projects per year		0.25×100	
	4 - 6 projects per year		0.50×100	
	7 - 10 projects per year		0.75×100	
	More than 10 projects per year		1.00×100	
<b>ED9</b>	<b>Number of sustainability-related startups</b>	<b>100</b>		
	None		0	
	1 – 5 startups		0.25×100	
	6 – 10 startups		0.50×100	
	11 – 15 startups		0.75×100	
	More than 15 startups		1.00×100	
<b>ED10</b>	<b>Percentage of number of graduates with green jobs (for the last 3 years)</b>	<b>50</b>		
	≤ 1%		0.05X50	
	> 1 - 5%		0.25×50	
	> 5 - 10%		0.50×50	
	> 10 - 20%		0.75×50	
	> 20%		1.00×50	
	<b>Total</b>	<b>1300</b>		
<b>7</b>	<b>Governance and Digitalization (GD)</b>			<b>11%</b>
<b>GD1</b>	<b>Percentage of university budget for sustainability efforts</b>	<b>200</b>		
	≤ 1%		0.05x200	
	> 1 - 5%		0.25×200	
	> 5 - 10%		0.50×200	
	> 10 - 15%		0.75×200	
	> 15%		1.00×200	
<b>GD2</b>	<b>University-run sustainability website</b>	<b>200</b>		
	Not available		0	
	Website in progress or under construction		0.25×200	
	Website is available and accessible		0.50×200	
	Website is available, accessible, and updated occasionally		0.75×200	
	Website is available, accessible, and updated regularly		1.00×200	
<b>GD3</b>	<b>Sustainability report</b>	<b>100</b>		
	Not available		0	
	Sustainability report is in preparation		0.25×100	
	Available but not publicly accessible		0.50×100	
	Sustainability report is accessible and published occasionally		0.75×100	
	Sustainability report is accessible and published annually		1.00×100	
<b>GD4</b>	<b>Financial report</b>	<b>100</b>		
	Not available		0	
	Financial report is in preparation		0.25×100	
	Available but not publicly accessible		0.50×100	
	Financial report is accessible and published occasionally		0.75×100	
	Financial report is accessible and published annually		1.00×100	
<b>GD5</b>	<b>Availability of unit or office that coordinate sustainability on campus</b>	<b>100</b>		
	Ad-hoc / task force		0	

	Unit or office in development		0.25×100	
	Unit or office with university leader decree of establishment, structure and duties at early stage		0.50×100	
	Unit or office with university leader decree of establishment, structure and duties has been operational		0.75×100	
	Unit or office with university leader decree of establishment, structure and duties has been operational and lead the university implementation of sustainability		1.00×100	
<b>GD6</b>	<b>Use of ICT for sustainability program planning, implementation, monitoring and evaluation</b>	<b>50</b>		
	None		0	
	Planning Stage		0.25×50	
	Implemented		0.50×50	
	Implemented and evaluated		0.75×50	
	Implemented, evaluated, and currently being revised/improved		1.00×50	
<b>GD7</b>	<b>Policy of advanced digital technologies usage, such as Artificial Intelligence and Internet of Things, to support decision-making, operational efficiency, and service delivery across university administrative and academic business processes</b>	<b>50</b>		
	No policy		0	
	Initial adoption of policy. Limited policy implementation in specific units.		0.25×50	
	Partial implementation. Policy is used in several administrative or academic processes but are not integrated institution-wide.		0.50×50	
	Broad implementation. Policy is integrated across multiple administrative and academic functions and support routine decision-making and service delivery.		0.75×50	
	Advanced and integrated implementation. Policy implemented institution-wide, systematically support strategic decision-making, operational optimization, and service delivery, and are continuously evaluated and improved.		1.00×50	
<b>GD8</b>	<b>Ratio of female leaders to total institutional leaders</b>	<b>100</b>		
	≤ 5%		0	
	5 - 20%		0.25×100	
	> 20 - 35%		0.50×100	
	> 35 - 50%		0.75×100	
	> 50%		1.00×100	
<b>GD9</b>	<b>Anti-corruption and integrity system of the university</b>	<b>50</b>		
	None		0	
	The anti-corruption and integrity system is currently in the planning stage		0.25×50	
	The anti-corruption and integrity system has been implemented		0.50×50	
	The anti-corruption and integrity system has been implemented and evaluated		0.75×50	
	The anti-corruption and integrity system has been implemented, evaluated, and is currently revised		1.00×50	

<b>GD10</b>	<b>Whistleblowing and complaint system of the university</b>	<b>50</b>		
	None		0	
	Whistleblowing and complaint system is currently in the planning stage		0.25×50	
	Whistleblowing and complaint system has been implemented		0.50×50	
	Whistleblowing and complaint system has been implemented and evaluated		0.75×50	
	Whistleblowing and complaint system has been implemented, evaluated, and is currently revised		1.00×50	
<b>GD11</b>	<b>LMS-enabled digital literacy program for students and staff</b>	<b>50</b>		
	None		0	
	The program is currently in the planning stage		0.25×50	
	Program has been implemented		0.50×50	
	Program has been implemented and evaluated		0.75×50	
	Program has been implemented, evaluated, and is currently revised		1.00×50	
<b>GD12</b>	<b>Written code of ethics that applies to university leaders, academic staff, administrative staff, and students</b>	<b>50</b>		
	No written Code of Ethics is available		0	
	A Code of Ethics is in preparation or draft form		0.25×50	
	A written Code of Ethics is formally established but applies only to certain groups or is not consistently enforced		0.50×50	
	A written Code of Ethics applies to all groups and is implemented and monitored		0.75×50	
	A written Code of Ethics applies to all groups, is fully implemented, regularly reviewed, and actively enforced through institutional mechanisms		1.00×50	
	<b>Total</b>	<b>1100</b>		
	<b>TOTAL</b>	<b>10000</b>		

## Appendix 2

### List of Green Building Elements

GBI Non-Residential Existing Building	GBI Non-Residential New Construction (NRNC)
<b>Element 1. Energy Efficiency</b>	
<b>Design &amp; Performance</b>	<b>Design</b>
Minimum EE Performance	Minimum EE Performance
Lighting Zoning	Lighting Zoning
Electrical Sub-metering	Electrical Sub-metering
Renewable Energy	Renewable Energy
Advanced or Improved EE Performance - BEI	Advanced EE Performance - BEI
<b>Commissioning</b>	<b>Commissioning</b>
Enhanced or Re-commissioning	Enhanced Commissioning
On-going Post Occupancy Commissioning	Post Occupancy Commissioning
<b>Monitoring, Improvement &amp; Maintenance</b>	<b>Verification &amp; Maintenance</b>
EE Monitoring & Improvement	EE Verification
Sustainable Maintenance	Sustainable Maintenance
<b>Element 2. Indoor Environmental Quality</b>	
<b>Air Quality</b>	<b>Air Quality</b>
Minimum IAQ Performance	Minimum IAQ Performance
Environmental Tobacco Smoke (ETS) Control	Environmental Tobacco Smoke (ETS) Control
Carbon Dioxide Monitoring and Control	Carbon Dioxide Monitoring and Control
Indoor Air Pollutants	Indoor Air Pollutants
Mould Prevention	Mould Prevention
<b>Thermal Comfort</b>	<b>Thermal Comfort</b>
Thermal Comfort: Controllability of Systems	Thermal Comfort: Design & Controllability of Systems
Air Change Effectiveness	Air Change Effectiveness
<b>Lighting, Visual &amp; Acoustic Comfort</b>	<b>Lighting, Visual &amp; Acoustic Comfort</b>
Daylighting	Daylighting
Daylight Glare Control	Daylight Glare Control
Electric Lighting Levels	Electric Lighting Levels
High Frequency Ballasts	High Frequency Ballasts
External Views	External Views
Internal Noise Levels	Internal Noise Levels
<b>Verification</b>	<b>Verification</b>
IAQ Before/During Occupancy	IAQ Before & During Occupancy
Occupancy Comfort Survey: Verification	Post Occupancy Comfort Survey: Verification
<b>Element 3. Sustainable Site Planning &amp; Management</b>	
<b>Facility Management</b>	<b>Site Planning</b>
GBI Rated Design & Construction	Site Selection
Building Exterior Management	Brownfield Redevelopment
Integrated Pest Management, Erosion Control & Landscape Management	Development Density & Community Connectivity
	Environment Management
	<b>Construction Management</b>
	Earthworks - Construction Activity Pollution Control
	QLASSIC
	Workers' Site Amenities

<b>Transportation</b>	<b>Transportation</b>
Green Vehicle Priority - Low Emitting & Fuel Efficient Vehicles	Public Transportation Access
Parking Capacity	Green Vehicle Priority
	Parking Capacity
<b>Reduce Heat Island Effect</b>	<b>Design</b>
Greenery & Roof	Stormwater Design – Quantity & Quality Control
Building User Manual	Greenery & Roof
	Building User Manual
<b>Element 4. Materials &amp; Resources</b>	
<b>Reused &amp; Recycled Materials</b>	<b>Reused &amp; Recycled Materials</b>
Materials Reuse and Selection	Materials Reuse and Selection
Recycled Content Materials	Recycled Content Materials
<b>Sustainable Materials &amp; Resources and Policy</b>	<b>Sustainable Resources</b>
Sustainable Timber	Regional Materials
Sustainable Purchasing Policy	Sustainable Timber
<b>Waste Management</b>	<b>Waste Management</b>
Storage, Collection & Disposal of Recyclables	Storage & Collection of Recyclables
	Construction Waste Management
<b>Green Products</b>	<b>Green Products</b>
Refrigerants & Clean Agents	Refrigerants & Clean Agents
<b>Element 5. Water Efficiency</b>	
<b>Water Harvesting &amp; Recycling</b>	<b>Water Harvesting &amp; Recycling</b>
Rainwater Harvesting	Rainwater Harvesting
Water Recycling	Water Recycling
<b>Increased Efficiency</b>	<b>Increased Efficiency</b>
Water Efficient - Irrigation/Landscaping	Water Efficient - Irrigation/Landscaping
Water Efficient Fittings	Water Efficient Fittings
Metering & Leak Detection System	Metering & Leak Detection System
<b>Element 6. Innovation</b>	
Innovation & Environmental Initiatives	Innovation in Design & Environmental Design Initiatives
Green Building Index Facilitator	Green Building Index Accredited Facilitator

*Adapted from 'The Green Building Index (GBI)'*

*For more information: <https://www.greenbuildingindex.org/gbi-tools/>*

*Note: Please classify the green building elements in your university.*

## Appendix 3

### List and Description of Smart Building Requirements

Field	Requirement	Description
B	Automation	B1 BMS Presence of Building Management System (BMS)/Building Information Modelling (BIM)/Building Automation System (BAS)/Facility Management System (FMS) <b>(recommended requirement)</b>
	B2 APP	Interactive support for users via APP or online service
S	Safety	S1 Intruder Alarm System Intruder alarm system (recommended: interfaced with BMS)
		S2 Fire-fighting Fire-fighting system (recommended: interfaced with BMS)
		S3 Video surveillance Video surveillance system (recommended: interfaced with BMS)
		S4 Anti-flooding Anti-flooding system (recommended: interfaced with BMS)
E	Energy	E1 Monitoring Automatic acquisition and logging system of energy consumption (recommended: interfaced with BMS)
		E2 Management Automatic management system for energy supplies and production (recommended: interfaced with BMS)
A	Water	A1 Monitoring Automatic acquisition and logging system of water consumption (recommended: interfaced with BMS)
		A2 Recovery Rainwater recovery system for covering the flushing and irrigation
I	Indoor environment	I1 Thermal comfort Monitoring (recommended: interfaced with BMS) of environmental parameters related to thermo-hygrometric comfort (i.e. air temperature, relative humidity, air velocity, etc.)
		I2 Air quality Monitoring (recommended: interfaced with BMS) of pollutants (i.e. VOC, PM, CO <sub>2</sub> ...)
		I3 Real-time Programming and management in real time according to the occupancy profile of the premises (recommended: interfaced with BMS)
		I4 Passive system Passive cooling and/or exploitation/limitation systems for free supplies
L	Lighting	L1 LEDs High-efficiency luminaires (LEDs)
		L2 Sensors Automatic lighting control (recommended: presence/illuminance sensors interfaced with BMS)
		L3 Shielding Shielding adjustment and solar control
		L4 Natural light Passive systems for natural light exploitation

*Note:*

Please state the Building Management System (BMS)/Building Information Modelling (BIM)/Building Automation System (BAS)/Facility Management System (FMS) used in your university

Adapted from 'UI GreenMetric 2018: Energy and Climate Change Guidelines for Compilation', by RUS Energia, 2019.

## Appendix 4

### Calculation of Carbon Footprint Per Year

This appendix provides a simplified example for estimating annual greenhouse gas emissions (carbon footprint) using two main activity data sources: **purchased electricity** and **transportation activity on campus**. Where data are available, universities are encouraged to calculate the carbon footprint more comprehensively by including additional emission sources listed in **Table 4 (Scope 1–3)**, such as stationary fuel combustion, fugitive emissions (refrigerants), waste, purchased water, and commuting. **The worked example below covers electricity and on-campus transportation only.**

However, for **Question 2.11**, please **exclude emissions from flights** and **secondary carbon sources** (e.g., food consumption, dishes, and clothing), as stated in the questionnaire. For calculation purposes, carbon footprint is treated as CO<sub>2</sub>-equivalent (CO<sub>2</sub>e). Please report the final result in metric tons, as required in Question 2.11.

**Important:** The emission factors used below may vary by country, year, and methodology. Always use the most relevant and recent emission factors for your context and document them clearly in the evidence file.

#### A. Required activity data (minimum dataset)

Prepare the following annual or daily activity data:

- Electricity usage per year (kWh)
- Shuttle buses operating on campus: number of buses, trips per day, average distance per trip (km), number of operating days per year
- Vehicles entering campus (cars, motorcycles): average number per day, average distance traveled inside campus per visit (km), number of operating days per year

#### B. Emission factors (what to use and how to document)

Use credible emission factors and record, at minimum: **factor value, unit, year, and source**.

##### 1. Electricity (grid emission factor)

Use an electricity emission factor in **kgCO<sub>2</sub>e/kWh** (or equivalently **tCO<sub>2</sub>e/MWh**). The factor should reflect the electricity grid relevant to your campus and the most recent reference year available.

##### 2. Transportation (choose one method)

Choose one approach and apply consistently:

- **Method 1 (preferred):** vehicle-kilometer factor (kgCO<sub>2</sub>e per vehicle-km)
- **Method 2:** fuel-based calculation (liters × kgCO<sub>2</sub>e/liter)

**Note:** Example factors below are for illustration only. Replace them with documented factors for your context.

### C. Calculation steps (with worked example)

#### a. Electricity usage per year (Question 2.6)

##### Emissions from purchased electricity (tCO<sub>2</sub>e/year):

$$\text{Emissions\_elec} = \text{Electricity (kWh)} \times \text{EF\_elec (kgCO}_2\text{e/kWh)} / 1,000$$

Example:

Electricity usage per year = 1,633,286 kWh

Assumed EF<sub>elec</sub> = 0.84 kgCO<sub>2</sub>e/kWh (example only)

$$\text{Emissions\_elec} = (1,633,286 \times 0.84) / 1,000 = \mathbf{1,371.96 \text{ tCO}_2\text{e}}$$

#### b. Transportation per year (Shuttle buses on campus)

Step 1: VKT<sub>bus</sub> (km/year) = N<sub>bus</sub> × Trips/day × Distance/trip × Days/year

Step 2: Emissions<sub>bus</sub> (tCO<sub>2</sub>e/year) = VKT<sub>bus</sub> × EF<sub>bus</sub> (kgCO<sub>2</sub>e/km) / 1,000

Example:

N<sub>bus</sub> = 15; Trips/day = 150; Distance/trip = 5 km; Days/year = 240

VKT<sub>bus</sub> = 15 × 150 × 5 × 240 = 2,700,000 km/year

Assumed EF<sub>bus</sub> = 0.10 kgCO<sub>2</sub>e/km (example only)

$$\text{Emissions\_bus} = (2,700,000 \times 0.10) / 1,000 = \mathbf{270 \text{ tCO}_2\text{e}}$$

#### c. Transportation per year (Cars entering campus)

VKT<sub>car</sub> (km/year) = N<sub>car/day</sub> × Distance/visit × Days/year × Trip\_multiplier

(Trip\_multiplier = 2 if round trip is assumed)

Emissions<sub>car</sub> (tCO<sub>2</sub>e/year) = VKT<sub>car</sub> × EF<sub>car</sub> (kgCO<sub>2</sub>e/km) / 1,000

Example:

N<sub>car/day</sub> = 2,000; Distance/visit = 5 km; Days/year = 240; Trip\_multiplier = 2

VKT<sub>car</sub> = 2,000 × 5 × 240 × 2 = 4,800,000 km/year

Assumed EF<sub>car</sub> = 0.20 kgCO<sub>2</sub>e/km (example only)

$$\text{Emissions\_car} = (4,800,000 \times 0.20) / 1,000 = \mathbf{960 \text{ tCO}_2\text{e}}$$

#### ***d. Transportation per year (Motorcycles entering campus)***

VKT\_mc (km/year) = N\_mc/day × Distance/visit × Days/year × Trip\_multiplier  
Emissions\_mc (tCO<sub>2</sub>e/year) = VKT\_mc × EF\_mc (kgCO<sub>2</sub>e/km) / 1,000

Example:

N\_mc/day = 4,000; Distance/visit = 5 km; Days/year = 240; Trip\_multiplier = 2  
VKT\_mc = 4,000 × 5 × 240 × 2 = 9,600,000 km/year  
Assumed EF\_mc = 0.10 kgCO<sub>2</sub>e/km (example only)  
Emissions\_mc = (9,600,000 × 0.10) / 1,000 = **960 tCO<sub>2</sub>e**

#### ***e. Total emissions per year***

Total Emissions = Emissions\_elec + Emissions\_bus + Emissions\_car +  
Emissions\_mc

Example: = 1,371.96 + 270 + 960 + 960 = **3,561.96 tCO<sub>2</sub>e/year**

#### ***f. Optional (recommended): Carbon footprint per campus population (EC8)***

Carbon footprint per capita = Total Emissions (tCO<sub>2</sub>e/year) / Campus population  
(students + staff)

Document the campus population figure and its source in the evidence file.

#### **Evidence checklist (what to attach / describe)**

In the evidence file, provide:

- Activity data table (with **reference year**)
- Emission factors table (value, unit, reference year, source)
- Spreadsheet showing formulas and intermediate steps
- Boundary statement (e.g., on-campus only vs commuting included)
- Confirmation that flights and secondary carbon sources are excluded for Question 2.11



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