



บันทึกข้อความ

ส่วนงาน สำนักงานมหาวิทยาลัย กองกายภาพและสิ่งแวดล้อม โทร. 3241

ที่ อว 69.2.6/800

วันที่ 25 ธันวาคม 2566

เรื่อง ขอบรรจวาระการประชุม เรื่อง แจ้งผลการเข้ารับการจัดอันดับ 2023 UI Green Metric World University Rankings

เรียน เลขาธิการคณะกรรมการบริหารมหาวิทยาลัย

ตามที่มหาวิทยาลัยได้เข้ารับการจัดอันดับ UI Green Metric World University Rankings ประจำปี 2023 โดย UI Green Metric นั้น

ดังนั้น จึงขอบรรจวาระการประชุมคณะกรรมการบริหารมหาวิทยาลัย ดังนี้
ประเด็นที่เสนอเพื่อทราบ ผลการจัดอันดับของมหาวิทยาลัยแม่โจ้ ประจำปี 2023 สรุป
รายละเอียดผลการจัดอันดับ ดังนี้

1. ระดับโลก ได้อันดับที่ 143 จากมหาวิทยาลัย 1,183 แห่งจากทั่วโลกที่เข้าร่วมจัดอันดับ โดยได้รับผลคะแนนรวมเพิ่มขึ้นจากปี 2022 จาก 78.25% เป็น 81.5%
 2. มีคะแนนรวมเป็นอันดับที่ 11 ของประเทศ (จาก 55 มหาวิทยาลัยไทย)
 3. ผลคะแนนรวมที่ได้ 8,150 คะแนน จากคะแนนเต็ม 10,000 คะแนน
 4. คะแนนด้านการจัดการพลังงาน เป็นอันดับ 3 ของประเทศ
 5. คะแนนด้านการศึกษาวิจัยที่เกี่ยวข้องกับความยั่งยืนเป็นอันดับที่ 6 ของประเทศ
- รายละเอียดตามเอกสารที่แนบมาพร้อมนี้แล้ว

จึงเรียนมาเพื่อโปรดทราบ และพิจารณาดำเนินการ

๗/

(ผู้ช่วยศาสตราจารย์ ดร.ณัฐฉา ดุษฎี)

รองอธิการบดี

ประธานคณะกรรมการขับเคลื่อนยุทธศาสตร์การเป็น
มหาวิทยาลัยสีเขียว (Green University) มหาวิทยาลัยแม่โจ้
ผู้ขอบรรจวาระการประชุม

ผลการดำเนินงานมหาวิทยาลัยสีเขียว (Green University) มหาวิทยาลัยแม่โจ้ 3 ปีย้อนหลัง (2021-2023)

	Categories and Indicators	Points	2021	2022	2023
		10000	Result	Result	Result
1	Setting and Infrastructure (SI)	1500	1250	1250	1175
2	Energy and Climate Change (EC)	2100	1500	1450	1650
3	Waste (WS)	1800	1200	1200	1350
4	Water (WR)	1000	650	750	750
5	Transportation (TR)	1800	1375	1500	1550
6	Education & Research (ED)	1800	1675	1675	1675
	Total	10000	7650	7825	8150



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Certificate

This certificate is awarded to

Maejo University

**as The 143rd World's Most Sustainable University
in 2023 UI GreenMetric World University Rankings**

Jakarta, 5 December 2023



Prof. Dr. Ir. Riri Fitri Sari, M.M., M.Sc.
Chairperson of UI GreenMetric



**UNIVERSITAS
INDONESIA**
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FACT FILE 2023

UI GREENMETRIC

WORLD UNIVERSITY

RANKINGS

MAEJO UNIVERSITY

Thailand

63 Mhu 4, Nongharn, Sansai Chiangmai 50290 Thailand

UNIVERSITY PROFILE

Name	: Maejo University
Established	: 1934
Country	: Thailand
Tree Rating	: N/A

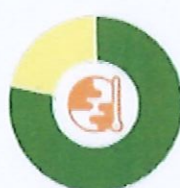


1. VERIFIED DATA



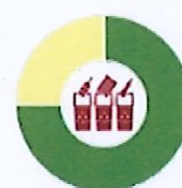
Setting & Infrastructure (SI)

Point: 1175 of max. 1500
(78.33 %)



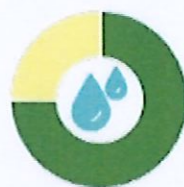
Energy & Climate Change (EC)

Point: 1650 of max. 2100
(78.57 %)



Waste (WS)

Point: 1350 of max. 1800
(75.00 %)



Water (WR)

Point: 750 of max. 1000
(75.00 %)



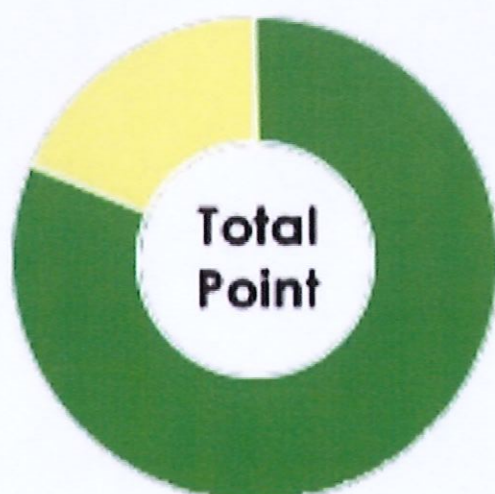
Transportation (TR)

Point: 1550 of max. 1800
(86.11 %)



Education & Research (ED)

Point: 1675 of max. 1800
(93.06 %)



Point: 8150 of max. 10000 (81.50 %)

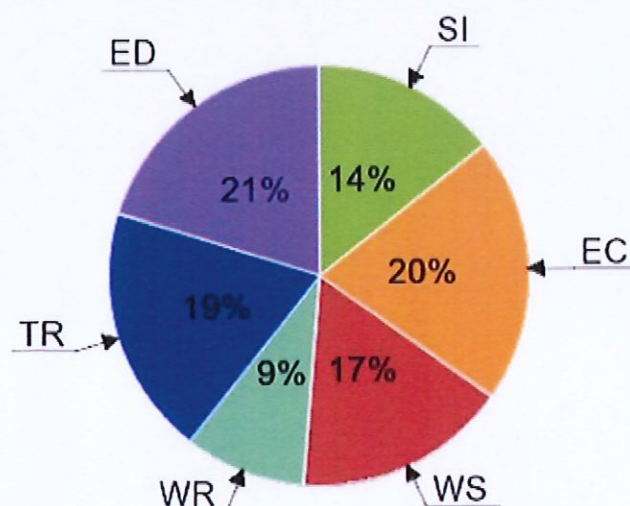


Figure 1.1 Overall Score Diagram

2. RESULTS SUMMARY

World Ranking	SI Ranking	EC Ranking	WS Ranking
143	185	132	292
	WR Ranking	TR Ranking	ED Ranking
	300	113	124

3. WORLD RANKINGS HISTORY

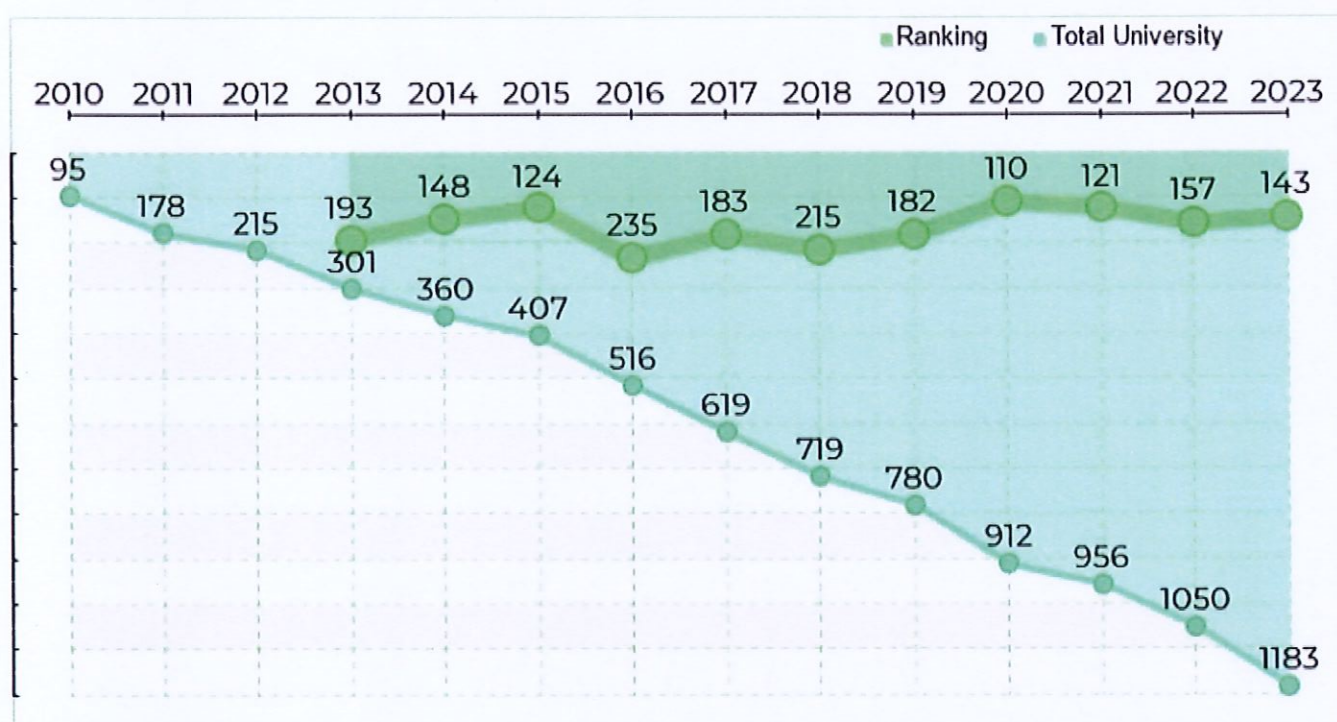


Figure 3.1 World Rankings History Diagram

4. RANKING IN THAILAND

Country Ranking	SI Ranking	EC Ranking	WS Ranking
11	14	3	17
	WR Ranking	TR Ranking	ED Ranking
	25	10	6

5. RESULTS DETAIL

Setting and Infrastructure

The campus setting and infrastructure information provides the basic information about the university's policy on green environment. The indicators also show whether the campus deserves to be called a Green University. The aim is to encourage the participating universities to provide more spaces for greenery and safeguard the environment



Indicator		Point
SI.1	The ratio of open space area towards total area	100
SI.2	Area on campus covered in forest	50
SI.3	Area on campus covered in planted vegetation	200
SI.4	Area on campus for water absorbance	50
SI.5	The ratio of open space area divided campus population	200
SI.6	University budget for sustainability effort	200
SI.7	Percentage of operation and maintenance activities of building in one year period	100
SI.8	Campus facilities for disabled, special needs and or maternity care	75
SI.9	Security and safety facilities	75
SI.10	Health infrastructure facilities for students, academics and administrative staff's wellbeing	75
SI.11	Conservation: plant, animal and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities	50

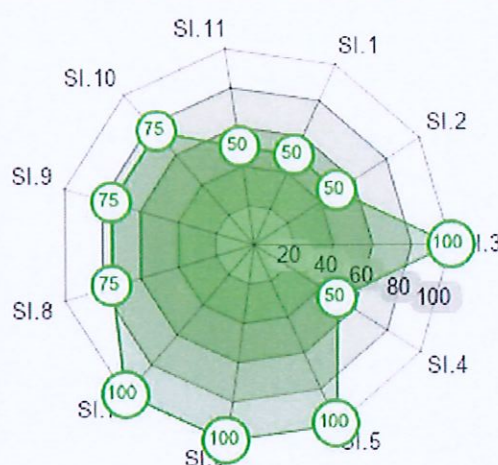


Figure 5.1 Percentage of Score to Maximum Score for Setting and Infrastructure

Energy and Climate Change

The university's attention to the use of energy and climate change issues has the highest score in this ranking. In our questionnaire, we define several indicators for this area of concern, i.e., energy-efficient appliances usage, the implementation of smart buildings/automation buildings/intelligent buildings, renewable energy usage policy, total electricity usage, energy conservation programs, elements of green buildings, climate change adaptation and mitigation programs, greenhouse gas emission reductions policy, and carbon footprint. Within these indicators, the universities are expected to increase their efforts in energy efficiency in their buildings and to care more about nature and alternative energy resources.



Indicator		Point
EC.1	Energy efficient appliances usage	100
EC.2	Smart building program implementation	225
EC.3	Number of renewable energy source in campus	300
EC.4	The total electricity usage divided by total campus population	225
EC.5	The ratio of renewable energy production towards total energy usage per year	150
EC.6	Element of green building implementation	200
EC.7	Greenhouse gas emission reduction program	150
EC.8	The ratio of total carbon footprint divided campus population	100
EC.9	Number of innovative program(s) in Energy and Climate Change	100
EC.10	Impactful university program(s) on climate change	100

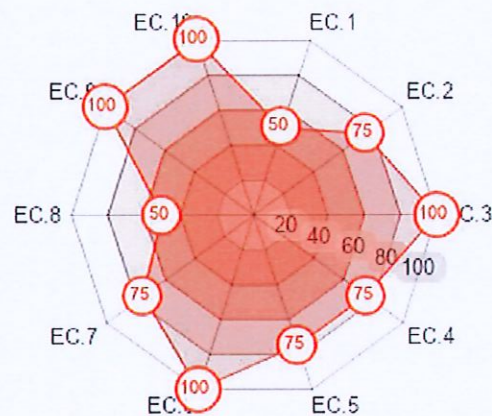
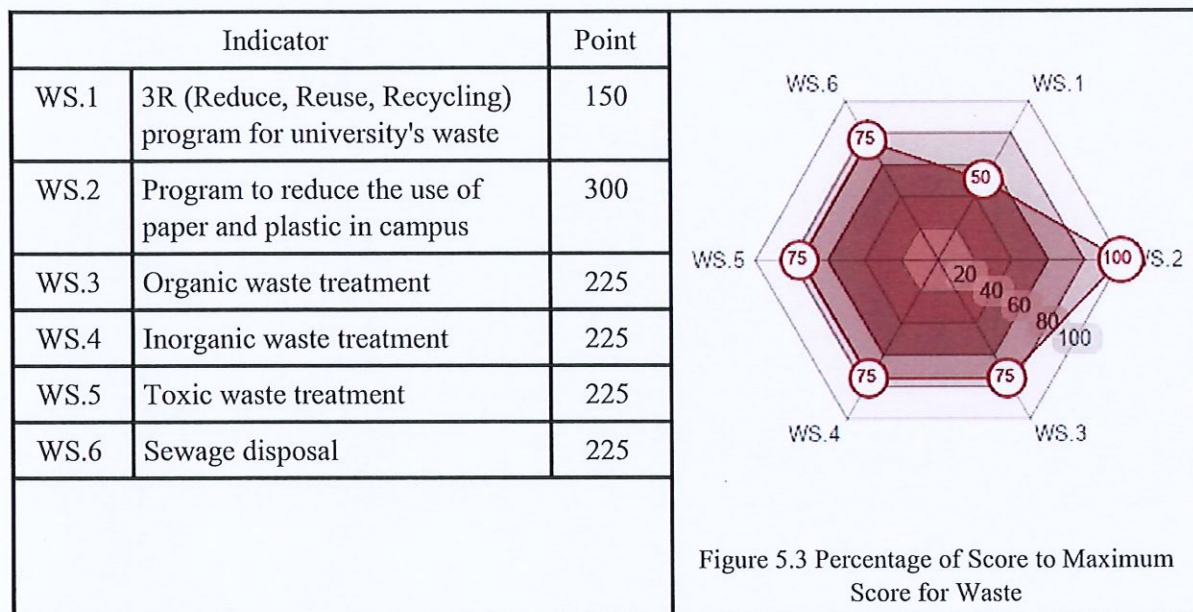


Figure 5.2 Percentage of Score to Maximum Score for Energy and Climate Change

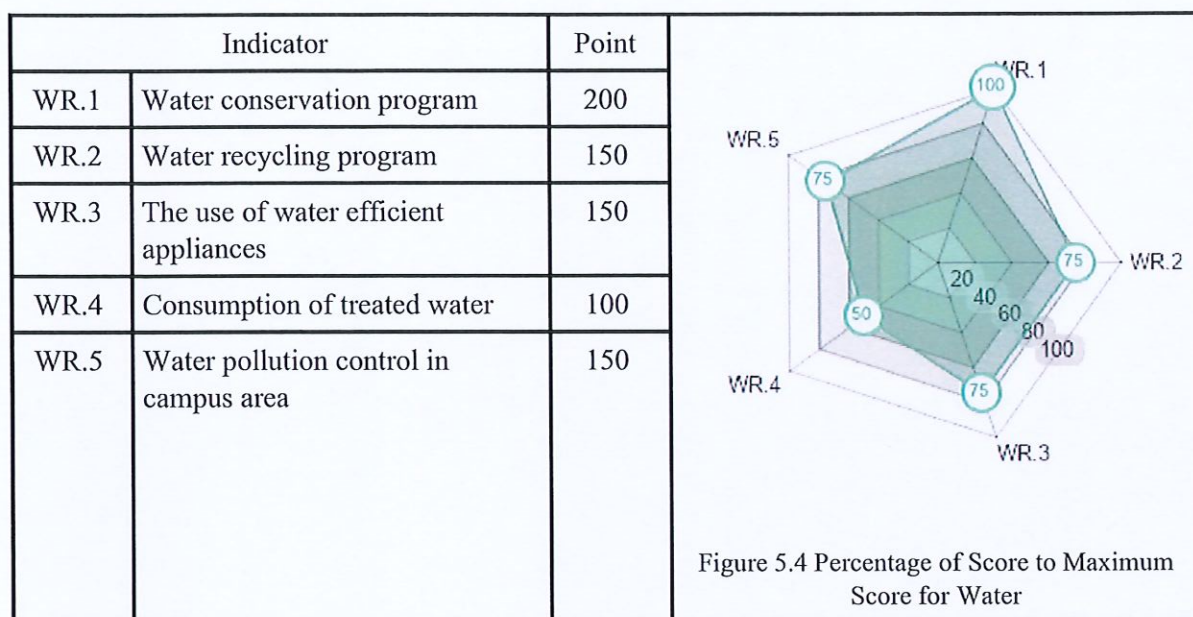
Waste

Waste treatment and recycling activities are major factors in creating a sustainable environment. The activities of university staff, students, and communities around university produce a lot of waste; therefore, some recycling and waste treatments programs should be among the concern of the university, i.e., 3R (Reduce, Reuse, Recycle) program, organic waste treatment, inorganic waste treatment, toxic waste recycling, sewage disposal, policies to reduce the use of paper and plastic on campus.



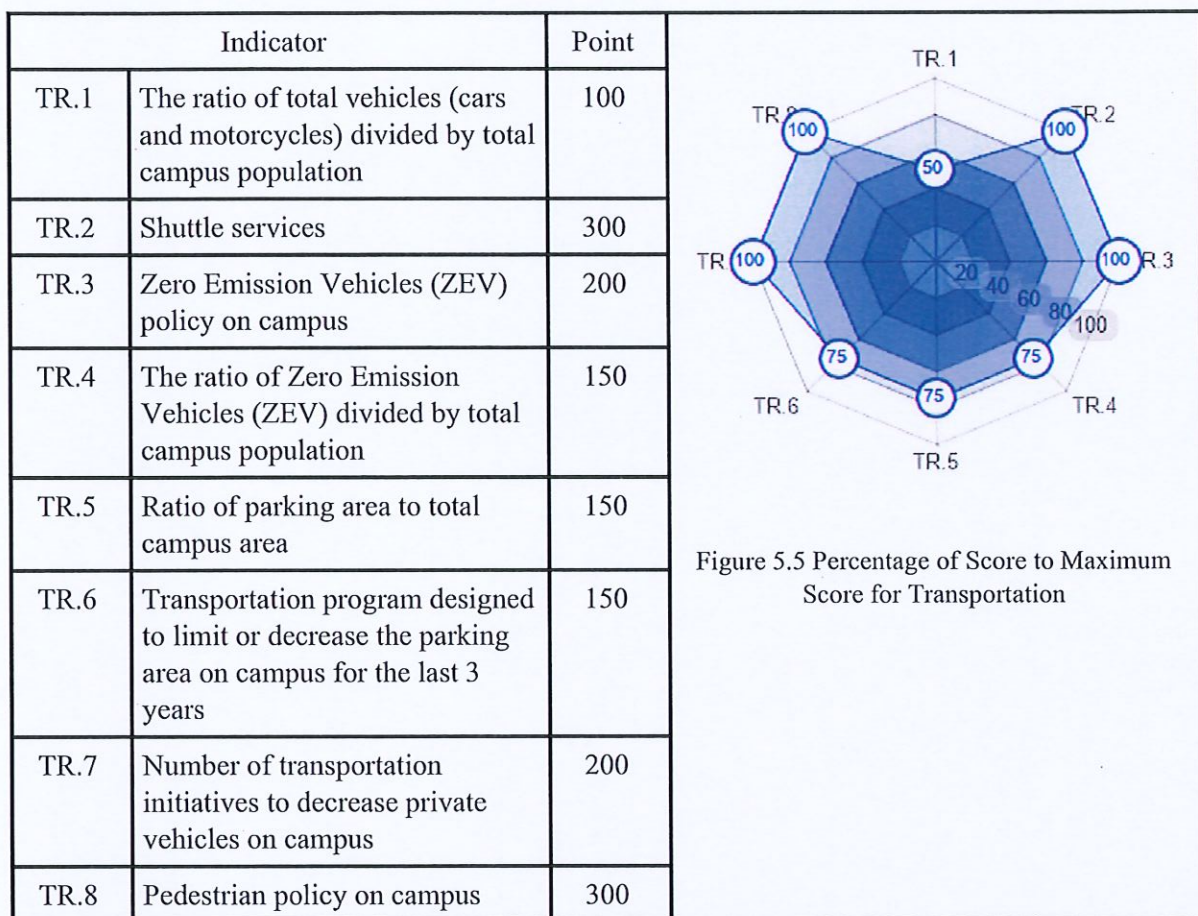
Water

Water usage at university is another important criterion in the UI GreenMetric. The aims are to encourage universities to decrease groundwater usage, increase water conservation programs, and protect habitats. Water conservation programs, water recycling programs, water-efficient appliances usage, and treated water usage are among the criteria



Transportation

Transportation systems play an important role in carbon emission and pollutant levels at universities. Transportation policies that limit the number of motor vehicles on campus and encourage the use of campus buses, shared vehicles, and zero emission vehicles (i.e. bicycles, electric cars, electric motorcycles, canoes, snowboards, etc.) will encourage a healthier environment. The pedestrian policy encourages students and staff to walk around campus and minimize the use of private vehicles. The use of environmentally friendly public transportation will decrease the carbon footprint around campus.



Education & Research

The university's education and research information provide basic information about the university's policies and actions in creating and supporting their students, academic and non-academic staff with sustainability awareness. This criterion also encourages universities to report their sustainability activities, strategies, and targets to their stakeholders.



Indicator		Point
ED.1	The ratio of sustainability courses towards total courses/modules	300
ED.2	The ratio of sustainability research funding towards total research funding	200
ED.3	Sustainability publications	150
ED.4	Sustainability events	200
ED.5	Activities organized by student organizations related to sustainability per year	200
ED.6	Sustainability websites	200
ED.7	Sustainability report	100
ED.8	Cultural activities on campus	100
ED.9	University sustainability program(s) with international collaborations	100
ED.10	Sustainability community services project organized and/or involving students	100
ED.11	Sustainability-related startups	25



Figure 5.6 Percentage of Score to Maximum Score for Education

UI GREENMETRIC WORLD UNIVERSITY RANKINGS

About UI GreenMetric

UI GreenMetric World University Rankings is an annual publication of university rankings on sustainability. It is an initiative from the University of Indonesia that ranks universities around the world based on their commitment and actions towards sustainability. UI GreenMetric World University Rankings aims to increase university awareness towards sustainability.

History

UI GreenMetric World University Rankings is a non-profit initiative of University of Indonesia developed since 2010.

In 2009 the University of Indonesia hosted an International Conference on World University Rankings. The conference was attended by World University rankers such as Webometrics, HEEACT, and others. In 2010, Prof. Dr. der Soz. Gumilar Rusliwa Somantri as Rector of the University of Indonesia at that time-initiated UI GreenMetric World University Rankings and appointed Prof. Dr. Ir. Riri Fitri Sari, MM., M.Sc. as the chairperson. Soon a team consisting of Dr. Junaidi, S.S., M.A., Dr. Budi Hartono, S.Si., MKM, Dr. Allan Frank Lauder, M.A., and Prof. Ir. Gunawan Tjahjono, M.Arch., Ph.D formulated UI GreenMetric Questionnaire and introduced UI Ranking to the world. In 2011, 11 new indicators in 5 categories have been added. Subsequently Education has been added as a new category in 2012. By the year 2015, a massive improvement was introduced including carbon footprint and a more systematic data collection. In 2016 an online based review and validation system has been set for the assessors.

UI GreenMetric took Policy into Action in 2016; Global Partnership for Sustainable Future in 2017; Universities, Impacts, and Sustainable Development Goals (SDGs) in 2018; Sustainable University in a Changing World: Lessons, Challenges and Opportunities in 2019; Universities' Responsibility for Sustainable Development Goals and World's Complex Challenges in 2020; Universities, UI GreenMetric, and SDGs in the Time of Pandemic in 2021; Collective Actions for Transforming Sustainable Universities in the Post-Pandemic Time in 2022; and Innovation, Impacts and Future Direction of Sustainable Universities in 2023 as its annual themes. In 2023, 1183 universities from 84 countries participate in the rankings.

To reach and coordinate more participating universities, UI GWURN was established in 2017 with a national coordinator in each country. To make it work, Junaidi formulated strategic framework for the network. Currently, there are 39 national coordinators in Asia, America, Africa and Europe. Each voluntarily organizes national workshop inviting other universities in their country. Since its establishment in 2010, it has been increasingly recognized as the first and only universities ranking on sustainability and has been used by participating universities to benchmark and do continuous improvement in the area of sustainability.

As a member of IREG, more activities and collaboration among participating universities are expected to achieve our common goal: sustainable university for sustainable future. UI GreenMetric itself developed its own ranking system by studying other ranking systems such as: The Times Higher Education World University Rankings (THE) sponsored by Thompson Reuters, the QS World University Rankings, the Academic Ranking of World Universities (ARWU) published by

Table 1. UI GreenMetric Timeline

UI GreenMetric Timeline	
2010	UI GreenMetric published for 95 Universities
2011	UI GreenMetric added 11 new indicators within 5 categories
2012	Education became one of the categories
2015	Introducing Carbon Footprint and fact file document
2016	Focusing on university action toward sustainability
2017	UIGWURN established
2018	Focusing on SDGs and enlargement of memberships
2019	Improving questionnaire and data collection method
2020	Three new questions on social and economic impacts, such as (1) Startup for the green economy; (2) Public access to open spaces; (3) Community services
2021	Introducing social, cultural, economic, and pandemic aspects in the questionnaire
2022	Adding an indicator related to water pollution and adjusting related to the current pandemic condition
2023	Adding an indicator related to 3R waste program, student organization activities and international collaboration

Shanghai Jiao Tong University (SJTU), and the Webometrics Ranking of World Universities (Webometrics), published by Cybermetrics Lab, CINDOC-CSIC in Spain.

Methodology

UI GreenMetric collects data through an online questionnaire. All participants answered some questions for some period. After that, UI GreenMetric expert members and reviewers validate the answers based on the evidence that participants provide. This year's categories and weighting of points are shown as follows. The specific indicators and their points awarded are shown in Table 3. Each indicator has been uniquely identified by a category code and a number (e.g., SI 5).

In our list, universities with the same total score will be ranked according to the highest weighted indicators, i.e firstly based on its Energy and Climate Change (EC) score, then based on the total score for Waste (WS), Transportation (TR), Education (ED). Subsequently it will be based on its Setting and Infrastructure (SI) score, and last will depend on its Water (WR) score.

Table 2. Categories used in the ranking and their weighting

No	Category	Percentage of Total Points (%)
1	Setting and Infrastructure (SI)	15
2	Energy and Climate Change (EC)	21
3	Waste (WS)	18
4	Water (WR)	10
5	Transportation (TR)	18
6	Education (ED)	18
	TOTAL	100



The specific indicators and their points awarded are shown in Table 3. Each indicator has been uniquely identified by a category code and a number (e.g., SI 5).

Table 3 Indicators and categories

No	CRITERIA	Point	Weighting
1	Setting and Infrastructure (SI)		15%
SI1	The ratio of open space area to the total area	200	
SI2	Total area on campus covered in forest vegetation	100	
SI3	Total area on campus covered in planted vegetation	200	
SI4	Total area on campus for water absorption besides the forest and planted vegetation	100	
SI5	The total open space area divided by the total campus population	200	
SI6	Percentage of university budget for sustainability efforts	200	
SI7	Percentage of operation and maintenance activities of building in one year period	100	
SI8	Campus facilities for disabled, special needs, and/or maternity care	100	
SI9	Security and safety facilities	100	
SI10	Health infrastructure facilities for students, academics, and administrative staff's wellbeing	100	
SI11	Conservation: plant (flora), animal (fauna), or wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities	100	
	Total	1500	
2	Energy and Climate Change (EC)		21%
EC1	Energy-efficient appliances usage	200	
EC2	Smart building implementation	300	
EC3	Number of renewable energy sources on campus	300	
EC4	Total electricity usage divided by total campus' population (kWh per person)	300	
EC5	The ratio of renewable energy production divided by total energy usage per year	200	
EC6	Elements of green building implementation as reflected in all construction and renovation policies	200	
EC7	Greenhouse gas emission reduction program	200	
EC8	Total carbon footprint divided by total campus' population (metric tons per person)	200	
EC9	Number of the innovative program(s) in energy and climate change	100	
EC10	Impactful university program(s) on climate change	100	
	Total	2100	

3	Waste (WS)		18%
WS1	3R (Reduce, Reuse, Recycling) program for university's waste	300	
WS2	Program to reduce the use of paper and plastic on campus	300	
WS3	Organic waste treatment	300	
WS4	Inorganic waste treatment	300	
WS5	Toxic waste treatment	300	
WS6	Sewage disposal	300	
	Total	1800	
4	Water (WR)		10%
WR1	Water conservation program & implementation	200	
WR2	Water recycling program implementation	200	
WR3	Water-efficient appliances usage	200	
WR4	Consumption of treated water	200	
WR5	Water pollution control in the campus area	200	
	Total	1000	
5	Transportation (TR)		18%
TR1	The total number of vehicles (cars and motorcycles) divided by the total campus' population	200	
TR2	Shuttle services	300	
TR3	Zero-Emission Vehicles (ZEV) policy on campus	200	
TR4	The total number of Zero-Emission Vehicles (ZEV) divided by the total campus population	200	
TR5	The ratio of the ground parking area to the total campus' area	200	
TR6	Program to limit or decrease the parking area on campus for the last 3 years (from 2020 to 2022)	200	
TR7	Number of initiatives to decrease private vehicles on campus	200	
TR8	The pedestrian path on campus	300	
	Total	1800	
6	Education and Research (ED)		18%
ED1	The ratio of sustainability courses to total courses/subjects	300	
ED2	The ratio of sustainability research funding to total research funding	200	
ED3	Number of scholarly publications on sustainability	200	
ED4	Number of events related to sustainability	200	
ED5	Number of activities organized by student organizations related to sustainability per year	200	
ED6	University-run sustainability website	200	
ED7	Sustainability report	100	
ED8	Number of cultural activities on campus	100	
ED9	Number of university sustainability program(s) with international collaborations	100	
ED10	Number of sustainability community services projects organized and/or involving students	100	
ED11	Number of sustainability-related startups	100	
	Total	1800	

UI GreenMetric Office

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Baru UI Depok 16424, Indonesia

Contact



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greenmetric@ui.ac.id

Ranking by Country 2023 - Thailand

10 entries

Search:

#	University	Country	Total Score	Setting and Infrastructure	Energy and Climate Change	Waste	Water	Transportation	Educational Quality
1	Kasetsart University	Thailand	8776	1276	1676	1575	900	1750	1600
2	Mahidol University	Thailand	8626	1200	1600	1575	960	1625	1675
3	King Mongkut's University of Technology Thonburi	Thailand	8626	1276	1660	1575	900	1700	1725
4	Suranaree University of Technology	Thailand	8576	1350	1600	1650	850	1475	1650
5	Siam University	Thailand	8526	1176	1625	1425	900	1700	1800
6	Walailak University	Thailand	8476	1400	1660	1425	900	1700	1500
7	Maharakham University	Thailand	8336	1350	1625	1350	800	1460	1750
8	Mae Fah Luang University	Thailand	8326	1300	1675	1275	850	1550	1675
9	Rajamangala University of Technology Thanyaburi (RMUTT)	Thailand	8250	1100	1650	1500	950	1550	1600
10	University of Phayao	Thailand	8200	1225	1625	1350	850	1625	1625
11	Maejo University	Thailand	8150	1176	1650	1350	750	1550	1675
12	Phetchaburi Rajabhat University	Thailand	8050	1150	1265	1650	950	1395	1650
13	Dhurakij Pundit University	Thailand	8010	1010	1625	1350	850	1550	1625
14	Naresuan University	Thailand	7900	1176	1375	1425	850	1500	1575
15	Walaya Alongkorn Rajabhat University Under the Royal Patronage	Thailand	7750	1125	1650	1200	800	1525	1550
16	Thaksin University	Thailand	7636	1225	1310	1275	750	1425	1650
17	King Mongkut's University of Technology North Bangkok	Thailand	7626	1000	1275	1350	900	1600	1500
18	Northeastern University	Thailand	7450	1000	1575	1200	750	1525	1400
19	Rajamangala University of Technology Isan	Thailand	7350	1150	1100	1425	650	1425	1600
20	Ubon Ratchathani University	Thailand	7250	1250	1125	1200	800	1250	1625
21	Pibulsongkram Rajabhat University	Thailand	7225	1075	1325	1275	850	1450	1250
22	Khon Kaen University	Thailand	7150	1276	1200	1200	850	1225	1400
23	Huachiew Chalermprakiet University	Thailand	7025	950	1450	1350	600	1150	1525
24	Silpakorn University	Thailand	6975	850	1450	1200	700	1400	1375
25	National Institute of Development Administration	Thailand	6885	750	1225	1425	750	1450	1275
26	King Mongkut's Institute of Technology Ladkrabang	Thailand	6850	1125	1350	750	650	1475	1500
27	Sukhothai Thammathirat Open University	Thailand	6740	840	1275	1125	800	1275	1425

Phranakhon Si Ayutthaya Rajabhat University	Thailand	6710	850	1160	1275	550	1450	14
Prince of Songkla University	Thailand	6690	1005	1075	1125	850	1185	14
Kamphaeng Phet Rajabhat University	Thailand	6660	785	1225	1275	800	1025	11
Rajamangala University of Technology Suvarnabhumi	Thailand	6660	1225	860	1500	800	1225	10
Suratthani Rajabhat University	Thailand	6645	1125	1135	1650	360	1300	10
Loei Rajabhat University	Thailand	6500	1050	850	1200	700	1375	13
Srinakharinwirot University	Thailand	6395	1000	835	1275	660	1550	10
Rajamangala University of Technology Rattanakosin	Thailand	6290	680	910	1200	850	1100	11
Burapha University	Thailand	6215	800	1015	1200	700	1200	13
Nakhon Pathom Rajabhat University	Thailand	6150	855	1210	1500	600	1085	9
Hatyai University	Thailand	6150	1075	950	975	750	1050	13
Bansomdejchaopraya Rajabhat University	Thailand	6000	715	1260	750	400	1375	11
Songkhla Rajabhat University	Thailand	5930	890	775	1050	750	1425	10
Ubon Ratchathani Rajabhat University	Thailand	5900	950	1000	900	500	1200	13
Nakhon Si Thammarat Rajabhat University	Thailand	5885	1050	935	750	600	1125	14
Chandakasem Rajabhat University	Thailand	5750	755	1185	1350	260	1150	10
Roi Et Rajabhat University	Thailand	5415	880	875	975	750	1185	7
Yala Rajabhat University	Thailand	4815	620	1010	675	800	960	7
Muban Chombueng Rajabhat University	Thailand	4740	660	820	675	160	1050	13
Rajamangala University Of Technology Phra Nakhon	Thailand	4465	730	940	375	210	1160	10
Buriram Rajabhat University	Thailand	4275	555	595	450	350	1100	13
Phuket Rajabhat University	Thailand	4245	700	510	600	450	785	13
Phetchabun Rajabhat University	Thailand	3635	585	525	375	300	975	8
Nakhon Ratchasima Rajabhat University	Thailand	3560	465	785	825	250	285	9
Kanchanaburi Rajabhat University	Thailand	3510	830	760	300	310	435	8
Rajabhat Rajanagarindra University (RRU)	Thailand	3195	520	965	300	50	960	4
Udon Thani Rajabhat University	Thailand	3090	785	410	675	160	385	6
Navamindradhiraj University	Thailand	3040	465	315	600	160	600	9