

# UI GreenMetric Ranking of World Universities

UI GreenMetric Ranking of World Universities was established in April 2010 in order to provide a profile for and way of comparing the commitment of universities towards going green and promoting sustainable operation. The ranking process has been completed six years since then. It is expected to promote awareness in institutions of higher education of the value of putting in place policies and systems that will have a positive impact on global warming and climate change, particularly those that help reduce carbon emissions through efficient energy use, and alternative forms of transport, greening the campus and waste recycling. Policies and management practices should also include ways of communicating the importance of the endeavor and finding ways of involving everyone and helping them to contribute with supportive behaviors.

Copyright © 2016 Universitas Indonesia



## What about the Ranking ?

The aim of this ranking is to provide the result of online survey regarding the current condition and policies related to the greening of campuses and improving sustainability in universities all over the world. It is expected that by drawing the attention of university leaders and stakeholders, more attention will be given to global climate change, clean energy and water conservation, waste recycling, and green transportation. This will require increased awareness and a change in the behavior of many if we are to see it happen.

## Who are the Users and Stakeholders?

It is intended as an entry-level means of assessment for higher education institutions (HEIs) around the globe. It should also be of interest to governments, international and local environmental agencies, and society.

## What are the Objectives?

- The ranking has number of primary objectives:
- It is open to global participation.
- It is accessible to HEIs in both the developed and developing world.
- It should contribute to academic discourse on sustainability in education and the greening of campuses.
- It should encourage university-led social change with regard to sustainability goals.

## What are the Benefits of Participation?

Universities which participate in UI GreenMetric by submitting their data to be included in the ranking can expect to enjoy a number of benefits:

### a. Internationalization and recognition

Participation in UI GreenMetric can help the university's efforts at internationalization and recognition by getting its sustainability efforts on the map. Participation in UI GreenMetric is accompanied by increased hits to the university website, more mentions of the institution connected with the issue of sustainability on web pages, and an increase in correspondence with institutions which are interested in your organization.

### b. Awareness rising of sustainability issues

Participation can help to raise awareness in the university and beyond about the importance of sustainability issues. The world faces unprecedented civilization challenges such as population trends, global warming, and overexploitation of natural resources, oil-dependent energy, water and food shortages and sustainability. We realize that higher education has a crucial role to play in addressing these challenges. GreenMetric leverages the crucial role that HEIs can play in raising awareness by helping assess and compare efforts at education for sustainable development, sustainability research, campus greening, and social outreach.

### c. Social Change and Action?

UI GreenMetric is primarily about awareness rising, but in future it will be adapted to encourage real change. Understanding needs to shift to action if we are to address emerging global challenges.

## What are the Influences on the Setup of UI GreenMetric?

The decision to establish UI GreenMetric was influenced by a number of factors:

### ● Idealism

Future challenges to civilization include population pressure, climate change, energy security, environmental degradation, water and food security and sustainable development. Despite much scientific research and public discussion, governments around the world have yet to commit to a sustainable agenda. Concerned people at Universitas Indonesia (UI) see that universities have a privileged position to help develop a consensus on key areas for action. This includes such concepts as the Triple Bottom Line, the 3 Es: Equity, Economy, Environment, Green Building, and Education for Sustainable Development (ESD).

### ● Existing Models

UI GreenMetric was not based on any one existing ranking system. It was however developed with awareness of a number of existing sustainability assessment systems and academic university rankings. Sustainability systems that were referred to during the design phase of UI GreenMetric included: The Holcim Sustainability Awards, GREENSHIP (the rating system recently developed by the Green Building Council of Indonesia which itself was based on the Leadership in Energy and Environmental Design (LEED) system used in the U.S. and elsewhere), The Sustainability, Tracking, Assessment and Rating System (STARS) and The College Sustainability Report Card (also known as the Green Report Card).

Meanwhile, university academic ranking systems that were studied during the design phase of UI GreenMetric included: the Times Higher Education World University Ranking (THE) sponsored by Thompson Reuters, the QS World University Rankings, the Academic Ranking of World Universities (ARWU) published by Shanghai Jiao Tong University (SJTU), and the Webometrics Ranking of World Universities (Webometrics), published by Cybermetrics Lab, CINDOC-CSIC in Spain.

### ● Realities and Challenges

The goal of creating a world university sustainability ranking was done with an understanding that the diversity of types of universities, their missions and their contexts would pose problems for the methodology. In particular, we were aware that universities differ with regard to levels of awareness and commitment to sustainability, to their budgets, the amount of green cover on their campuses, their climate, and many other dimensions. These issues are complex but UI GreenMetric is committed to continually improving the ranking so that it will be both useful and fair to all.

### ● Expert Advisory

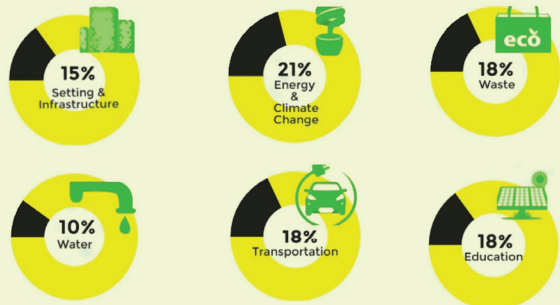
During the first and second annual workshop on UI GreenMetric many insightful comment and feedback have been received from many experts and University leaders

## What is the Methodology?

In the first version of the methodology in 2010, 23 indicators were used. In second version (2011), 34 indicators within the five categories were used to calculate the ranking scores. Since 2012, we used 6 criteria in the ranking. 'From Policy to action' is the theme for the ranking in 2016, with the emphasize on the implementation of sustainability in HEIs

In the current performance evaluation tool there are 38 indicators and 6 criteria i.e parking area reduction, parking area type, initiative to decrease private vehicles on campus, and the ratio of renewable energy produces towards energy usage, and the carbon footprint calculation have been added.

### Criteria & Indicator



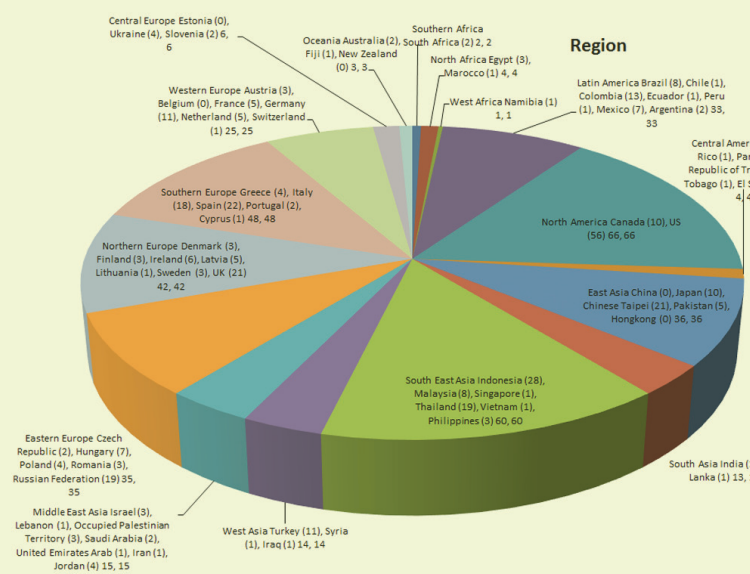
UI GreenMetric Ranking Criteria in 2016

## Who are the Participants?

The number of universities that have provided data in order to take part has shown a growth trend. In the first year, In 2010 UI GreenMetric published the ranking for 95 institutions. In the second year, the number published in the ranking was 178. In 2015, the number published in the ranking was 407 from 65 countries.

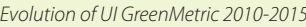


Distribution of the UI GreenMetric Participants



UI GreenMetric Participants by Region





UI is a member of the International Ranking Experts Group (IREG) and a signatory to UN Commitments such as that on Sustainable Practices of Higher Education Institutions for the Rio 2012 Conference on Sustainable Development. We have also presented our progress at the International Sustainable Campus Network (ISCN) – GULF-WEF Symposium 2012, together with other Data Monitoring and Evaluation of Sustainability in Higher Education Report such as the College Sustainability Green Report Card and GRI. UI GreenMetric also has been presented at the Quality Education Conference in Universidad Autónoma de Nuevo Leon, Mexico, on October 2013 and the Sustainability University Ranking Conference at the Università Ca' Foscari Venezia, Italy, November 2013. Various articles, magazines, journal papers, university, and institution webpages cited and referred UI GreenMetric evaluation and result. In 2014, III Asian Universities Forum organized by Al-Farabi Kazakh National University, in Astana & Almaty, endorsed UI GreenMetric to be used as a tool to evaluate university sustainability achievement. UI GreenMetric is currently trying to build a networking hub under UI GreenMetric World University Ranking Network as a forum for universities to share best practices in sustainability.

UI GreenMetric have been presented in IREG and ISCN forums in Taipei, Lisbon, Oregon, and Siena. On September and October 2016, three UI GreenMetric technical workshops will be conducted to encourage full participations of Russian, Jordanian and Turkish Universities. These workshops are organized in collaboration between UI GreenMetric Team and Host Universities, i.e. People's Friendly University Russia (RUDN University) in Moscow, Bulent Ecevit University in Zonguldak Turkey, and Jordan University of Science and Technology (JUST) in Irbid Jordan, in order to promote UI GreenMetric participations and providing platforms for universities to share their experiences in creating green and sustainable campuses.

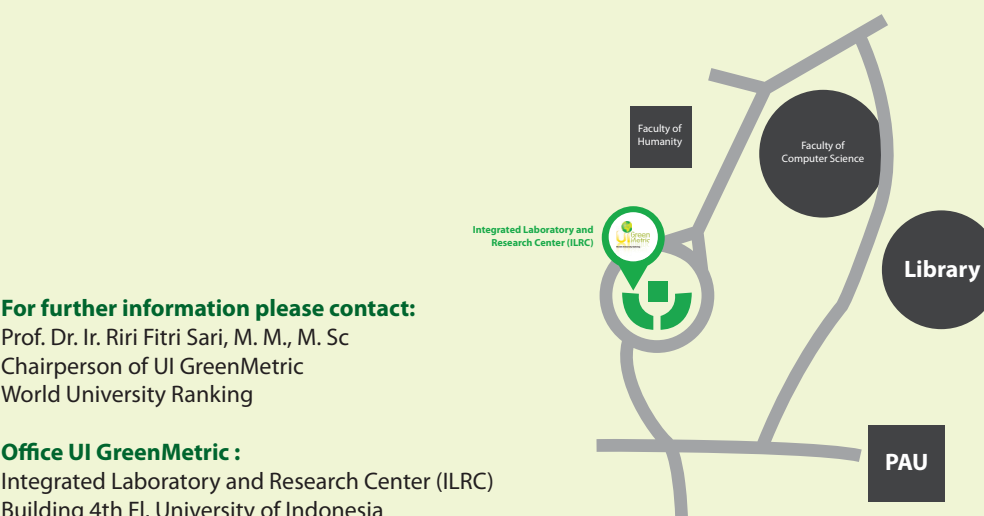
University	Country	Ranking
University of Nottingham	UK	1
University of Connecticut	US	2
University of California, Davis	US	3
University College Cork National University of Ireland	Ireland	4
University of Oxford	UK	5
University of California, Berkeley	US	6
University of North Carolina, Chapel Hill	US	7
University of Bradford	UK	8
Universite de Sherbrooke	Canada	9
Northeastern University	US	10
University of Sussex	UK	11
University of Groningen	Netherland	12
Universitat fur Bodenkultur Wien	Austria	13
University of Melbourne	Australia	14
Nottingham Trent University	UK	15
University of Limerick	Ireland	16
Universiti Putra Malaysia	Malaysia	17
Czech University of Life Sciences Prague (Czech University of Agriculture in Prague)	Czech Republic	18
Georgia Institute of Technology	US	19
Universitat Autònoma de Barcelona	Spain	20

A continuous improvement to the UI GreenMetric questionnaire should be developed to take into consideration how to achieve its own goals, how to learn from constructive criticism about rankings and how to learn from the diverse experience of participants with their different goals and in different settings. Among the ideas under consideration for possible future innovations in the ranking are:

- Submitting data for the ranking is relatively easy and is currently done using an online system. There is no required fee for taking part.

We would very much like for you to join us. If you have already taken part, please continue.

The timeline diagram illustrates the sequence of events for the 2016 competition. It features a horizontal dashed line with a red arrow pointing to the right. Three circular nodes are positioned along this line, each with a colored dot in the center and a corresponding colored line connecting it to a text label. The first node is teal, labeled 'Submission Open' below and 'July - September 2016' above. The second node is orange, labeled 'Data Analysis' above and 'October 2016' below. The third node is pink, labeled 'Results' below and 'December 2016' above. A row of black dots is at the bottom of the slide.



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

Integrated Laboratory and Research Center (ILRC)  
Building 4th Fl, University of Indonesia  
Kampus Baru UI Depok 16424, Indonesia

