

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation Measures

CIRCULARS AND REPORTS OF ACTIVITIES FOR THE IMPLEMENTATION OF THE INITIATIVES DOCUMENT




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REPORT UI GREEN METRIC RANKING




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RESEARCH AND SCIENTIFIC STUDIES FOR A NEW INNOVATIVE GREEN PRODUCTS/GREEN TECHNOLOGY

UI GREEN METRIC RANKING

The UI Green Metric World University Ranking is a ranking on green campus and environmental sustainability initiated by Universitas Indonesia in 2010. Through 39 indicators in 6 criteria, UI Green Metric World University Rankings prudently determined the rankings by universities' environmental commitment and initiatives.

CRITERIA & INDICATORS

SETTING AND INFRASTRUCTURE (SI) (15%)

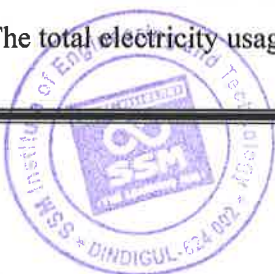
The campus setting and infrastructure information will give the basic information of the university policy towards green environment. This indicator also shows whether the campus deserves to be called Green Campus. The aim is to trigger the participating university to provide more space for greenery and in safeguarding environment, as well as developing sustainable energy. The indicators are:

1. The ratio of open space area towards total area.
2. Area on campus covered in forest.
3. Area on campus covered in planted vegetation.
4. Area on campus for water absorbance.
5. The total open space area divided by total campus population.
6. University budget for sustainable effort.

ENERGY AND CLIMATE CHANGE (EC) (21%)

The university's attention to the use of energy and climate change issues takes the highest weighting in this ranking. In our questionnaire we define several indicators for this particular area of concern, i.e. energy efficient appliances usage, renewable energy usage policy, total electricity use, energy conservation program, green building, climate change adaptation and mitigation program, greenhouse gas emission reductions policy. With this indicator, universities are expected to increase the effort in energy efficiency on their buildings and to take more about nature and energy resources. The indicators are:

1. Energy efficient appliances usage are replacing conventional appliances.
2. Smart Building implementation.
3. Number of renewable energy sources in campus.
4. The total electricity usage divided by total campus population (kWh per person).



5. The ratio of renewable energy produced towards energy usage.
6. Elements of green building implementation as reflected in all construction and renovation policy.
7. Greenhouse gas emission reductions program.
8. The ratio of total carbon footprint divided campus population.

WASTE (WS) (18%)

Waste treatment and recycling activities are major factors in creating a sustainable environment. The activities of university staff and students in campus will produce a lot of waste, therefore some programs and waste treatments should be among the concern of the university, i.e. recycling program, toxic waste recycling, organic waste treatment, inorganic waste treatment, sewerage disposal, policy to reduce the use of paper and plastic in campus. The indicators are:

1. Recycling program for university waste.
2. Program to reduce the use of paper and plastic in campus.
3. Organic waste treatment.
4. Inorganic waste treatment.
5. Toxic waste handled.
6. Sewerage disposal.

WATER (WR) (10%)

Water use in campus is another important indicator in Green metric. The aim is that universities can decrease water usage, increase conservation program, and protect the habitat. Water conservation program, piped water use is among the criteria. The indicators are:

1. Water conservation program implementation.
2. Water recycling program implementation.
3. The use of water efficient appliances (water tap, toilet flush, etc)
4. Treated water consumed.

TRANSPORTATION (TR) (18%)

Transportation system plays an important role on the carbon emission and pollutant level in university. Transportation policy to limit the number of motor vehicles in campus, the use of campus bus and bicycle will encourage a healthier environment. The pedestrian policy will encourage students and staff to walk around campus, and avoid using private vehicle. The use of



environmentally friendly public transportation will decrease carbon footprint around campus. The indicators are:

1. The Ratio of total vehicles (cars and motorcycles) divided by total campus population
2. Shuttle service
3. Zero Emission Vehicles (ZEV) policy on campus.
4. The ratio of Zero Emission Vehicles (ZEV) divided by total campus population.
5. Ratio of parking area to total campus area.
6. Transportation program designed to limit or decrease the parking area on campus for the last 3 years.
7. Number of transportation initiatives to decrease private vehicles on campus.
8. Pedestrian path policy on campus.

EDUCATION AND RESEARCH (ED) (18%)

This criterion is based on the thought that university has an important role in creating the new generation concern with sustainability issues. The indicators are:

1. The ratio of sustainability courses towards total courses/subjects.
2. The ratio of sustainability research funding towards total research funding.
3. Number of scholarly publications on environment and sustainability published.
4. Number of scholarly events related to environment and sustainability.
5. Number of student organizations related to environment and sustainability.
6. Existence of a university-run sustainability website.
7. Existence of published sustainability report.




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Certificate

This certificate is awarded to

SSM Institute of Engineering and Technology

**as The 349th 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



Green Metric ranking 2023

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GreenMetric World University Ranking of SSMIET in 2022



GreenMetric World University Ranking of SSMIET in 2021





GreenMetric World University Ranking of SSMIET in 2020



GreenMetric World University Ranking of SSMIET in 2020



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