



## THE Impact Rankings Questionnaire

University : Universitas Indonesia

Country : Indonesia

Web Address : www.ui.ac.id -----

[17] SDG17: Partnerships for the Goals

[17.3] Publication of SDG reports

[17.3.14] Publication of SDG 14 Life Below Water

University's sustainability report 2018

<http://green.ui.ac.id/wp-content/uploads/2019/01/UI-Sustainability-Report-2018.pdf>

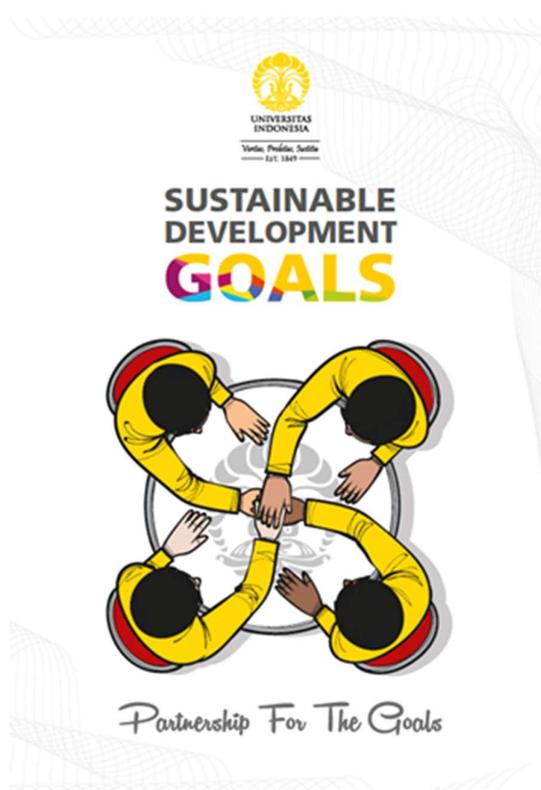


UNIVERSITY OF INDONESIA SUSTAINABILITY REPORT



2018

University's sustainability report 2019 (SDG 14: Life Below Water)  
<http://green.ui.ac.id/sdg-2019/>



52 Universitas Indonesia Sustainable Development Goals 2019



**SDG 14**  
**Kehidupan di Bawah Air**  
 Life below water

**Pemantauan Status Kualitas Air di Universitas Indonesia**  
 Water Quality Status Monitoring at Universitas Indonesia

UI memiliki enam danau buatan di sekitar area Kampus Depok, yaitu Danau Kawang, Agatha, Mahoni, Puspita, Lili, dan Selam. Danau Selam (Dewi Selam) memiliki luas sekitar 17,6 hektar dengan kedalaman rata-rata berkisar antara 1,5-2 meter. Danau-danau ini memiliki kemampuan menyimpan air hingga 52.500 m<sup>3</sup> air.

Sebagai bentuk komitmen terhadap kualitas air dan kehidupan di bawahnya, UI secara terus-menerus dan berkelanjutan memantau kualitas air danau melalui program UI BlueMetric. Sejak tahun pengamatan hingga 2019, Danau Kawang, Danau Agatha, Danau Lili, dan Danau Selam memiliki kualitas Air dan Oksigen terlarut standar kualitas air permukaan Danau Mahoni dan Danau Puspita berada dalam kelas C atau termasuk sedang.

UI has six artificial lakes around the Depok Campus area, namely Lake Kawang, Agatha, Mahoni, Puspita, Lili, and Selam. In total, Lake Selam has an area of around 20.5 hectares with an average depth ranging between 1.5-2 meters. These lakes have the ability to store up to 52,500 m<sup>3</sup> of water.

As a form of commitment to water quality and the life below water, UI constantly observes and analyzes lake water quality through the UI BlueMetric method. Based on the measured data until 2019, Lake Kawang, Lake Agatha, Lake Lili, and Lake Selam have Class A quality and are categorized to treat water easily and safely. While Lake Mahoni and Lake Puspita are moderately polluted and fall in the category of Class C.

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**Peta Hutan Kota dan Ruang Hijau Universitas Indonesia**  
 Map of Universitas Indonesia's Urban Forest and Green Space



**UI BlueMetric**  
 UI BlueMetric

Pada pertengahan 2019, UI memperkenalkan UI BlueMetric yang merupakan indikator pengukur kualitas perairan dan air permukaan lainnya di UI untuk mempertahankan kualitas air laut dan lingkungan laut yang baik di Indonesia.

Komponen yang diukur dalam pemantauan UI BlueMetric meliputi kondisi biologi (kekayaan spesies), suhu, arus, air laut, oksigen, dan salinitas permukaan. Pengukuran UI BlueMetric ini bertujuan untuk mengetahui proses awal yang melibatkan masyarakat dan pemerintah untuk menjaga lingkungan.

Program pengamatan UI BlueMetric ini telah dimulai sejak bulan Mei 2019 dengan melakukan survei lokasi Danau Bercy Baru. Hasil survei ini akan digunakan sebagai pemantauan danau yang ada di UI untuk mengetahui status kesehatan perairan laut. Untuk memastikan juga mengenai upaya pemantauan ini akan terus berlanjut, UI juga melakukan pertemuan dengan komunitas lokal yang peduli terhadap lingkungan air dan melihat mengenai sistem pemantauan air bersih dan jernih.

In mid-2019, UI introduced UI BlueMetric which is an indicator of measured sea water quality. This is UI's step to maintain the quality of sea water and a well-balanced marine ecosystem in Indonesia.

Components measured in UI BlueMetric include biodiversity (species richness), temperature, water, and human activities. The measurement is monitored through a series of evaluation that involve the community and the government as the stakeholders.

This program has begun since May 2019 when Bercy Baru Village was surveyed. The results indicated that community behavior in managing household waste was poor. Therefore, in addition to the issue of sea pollution, the community was educated on how to handle household waste, given tips on maintaining clean water sources and the improved clean water supply system.



Legend:  
 Road  
 Lake  
 UI - DHI Jakarta's Green Forest  
 UI - West Java's Green Forest/GOS  
 Building  
 Academic Area - West Java's Green Open Space (GOS)



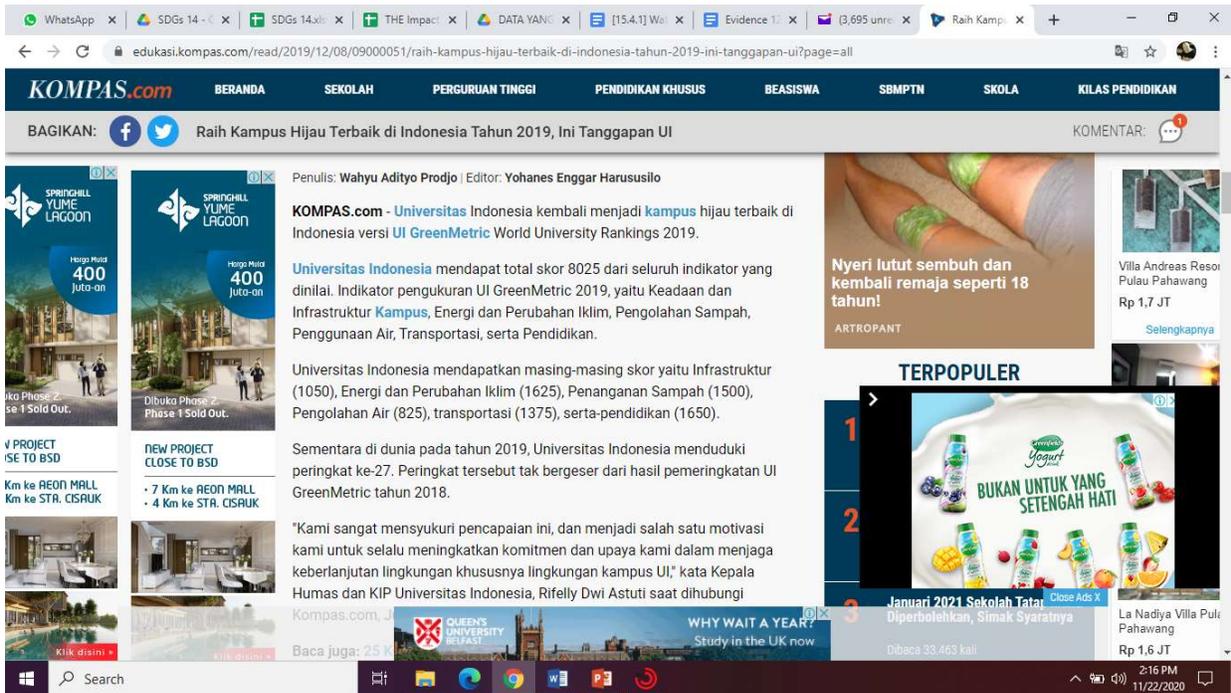
### Some activities to support SDG 14: Life Below Water

## FMIPA UI Lecturers Develop MikoGrow, System Digitalization for Oyster Mushroom Cultivation Monitoring

The screenshot shows a news article on the Universitas Indonesia website. The article title is "Dosen FMIPA UI Kembangkan MikoGrow, Digitalisasi Sistem Pantau Budidaya Jamur Tiram". The article is dated Tuesday, November 03, 2020, and is written by Wanda Ayu. The text describes the development of MikoGrow, a system based on the Internet of Things (IoT) that helps monitor oyster mushroom cultivation. It mentions that the system was developed by lecturers from the Faculty of Mathematics and Natural Sciences at Universitas Indonesia (FMIPA UI). The article also notes that the system was developed as a result of a grant from the Ministry of Education, Culture, Research and Technology (Kemendikbudristek/BRIN). The article is accompanied by social media sharing icons and a list of recent articles.

### UI Tops the Best Green Campus Ranking in 2019

The screenshot shows a news article on the Kompas.com website. The article title is "Raih Kampus Hijau Terbaik di Indonesia Tahun 2019, Ini Tanggapan UI". The article is dated 08/12/2019, 09:00 WIB. The article features a large image of the Universitas Indonesia gate. The article text is partially visible, showing the beginning of the article. The article is accompanied by social media sharing icons and a list of recent articles. The article is part of a series of articles about the best green campus ranking in 2019.



The screenshot shows a web browser displaying a news article on Kompas.com. The article title is "Raih Kampus Hijau Terbaik di Indonesia Tahun 2019, Ini Tanggapan UI". The author is Wahyu Adityo Prodjo and the editor is Yohanes Enggar Harusulilo. The article reports that Universitas Indonesia (UI) has been ranked as the best green campus in Indonesia for 2019 in the UI GreenMetric World University Rankings. It mentions a total score of 8025 and lists scores for various indicators: Infrastructure (1500), Energy and Climate Change (1625), Waste Management (1050), Air Pollution (825), and Education (1375). The article also includes a quote from the university's public relations head and a list of nearby projects like Springhill Yume Lagoon and Project Sea to BSD.

## Description:

University's sustainability report is published annually (2018 and 2019). The report consists of all efforts by the university in order to achieve all SDGs. This section presents the report of the fourteenth point of the SDGs, Life Below Water, as part of the annual university's sustainability report.

This section also provides some evidence of the university's action to achieve SDG 14. After succeeded in introducing Mikoponik, academic of Faculty of Mathematics and Natural Science (FMIPA) UI Dr. Retno Lestari, M.Si introduces a new concept called MikoGrow — a breakthrough in mushroom cultivation assistance. MikoGrow is an internet of things (IoT)-based system that helps mushroom farmers to monitor their cultivation remotely from their gadgets. Dr. Retno and her team do not only give assistance in the cultivating process, but she also trains mushroom farmers the down streaming process of mushroom products that they have cultivated. The program has been going on for two sessions, starting from 2019 and continuing this year. The idea of this innovation came from the impact of the COVID-19 pandemic towards the decrease of mushroom harvest in Bojong Koneng Village, Sentul. This activity is also the continuation of the Mikoponik program, which is the mushroom cultivation innovation utilizing agricultural wastes as the growth medium.

At the university level, UI tops the ranking of Best Green Campus in Indonesia in the UI GreenMetric World University Rankings 2019. UI GreenMetric is the innovation launched by Universitas Indonesia which has been known internationally as the first higher education ranking based on the commitment in the living ecosystem and environmental management around the campus. UI GreenMetric chooses criteria that are thought to be important by universities that are attentive towards environmental sustainability.

#### Evidence Link:

1. **University's sustainability report 2018** <http://green.ui.ac.id/wp-content/uploads/2019/01/UI-Sustainability-Report-2018.pdf>
2. **University's sustainability report 2019 (SDG 14 - Life Below Water)**  
<http://green.ui.ac.id/sdg-2019/>
3. <https://www.ui.ac.id/dosen-fmipa-ui-kembangkan-mikogrow-digitalisasi-sistem-pantau-budidaya-jamur-tiram/>
4. <https://edukasi.kompas.com/read/2019/12/08/09000051/raih-kampus-hijau-terbaik-di-indonesia-tahun-2019-ini-tanggapan-ui?page=all>