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
[17.3.7] Publication of SDG 7 Affordable and Clean Energy reports

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 7: Affordable and Clean Energy)
http://green.ui.ac.id/sdg-2019/

Green Roof Perpustakaan Pusat Universitas Indonesia/
Green Roof of the Central Library of Universitas Indonesia

Penerapan Sistem Pencahayaan LED
LED Lighting System

Sejumlah bangunan di UI telah dibangun dengan menerapkan prinsip penghematan energi. Salah satu contoh implementasi hal ini ialah penggantian semua unit lampu yang terpasang menjadi Light Emitting Diode (LED). Selain hemat energi, lampu LED juga tahan lama, lebih aman, dan lebih ramah terhadap lingkungan.

A number of UI buildings have replaced their light bulbs with energy-saving Light Emitting Diodes (LEDs). Utilizing LED lighting system has its advantages. Not only does it save energy, but it's also durable, safe, and environmentally-friendly.

Sistem Pencahayaan LED di Gedung Perpustakaan UI
LED Lighting System at UI Library

Penerapan Sistem Pencahayaan Sensor Gerak
LED Lighting System

Ruang-ruang dengan intensitas penggunaan yang tidak tinggi di UI dikondisikan agar lebih efisien. Salah satunya ialah selasar gedung Pusat Administrasi Universitas yang sistem pencahayaannya menggunakan LED dengan sensor gerak. Dengan sistem ini, apabila tidak terdapat aktivitas di dalam suatu area, maka lampu-lampu yang ada di area tersebut akan padam.

Lighting in rooms with low intensity of use is now made more efficient. University Administration Center hallway's lighting system, for example, currently uses automatic motion sensor LED lights that will only light up whenever a movement or activity is detected. The lights will automatically turn off whenever inactivities occur.

Sistem Pencahayaan LED Sensor Gerak di Gedung Pusat Administrasi UI
Motion Sensor LED Lighting System at the University Administration Center

Proses Evaluasi dan Identifikasi Penggunaan Energi
Evaluating and Identifying Energy Use

Untuk semakin mengefektifkan serta mengefisienkan penggunaan energi, UI memiliki sistem pengelolaan yang didukung oleh tim teknis dari masing-masing fakultas. Sistem berbasis online ini dapat melakukan monitoring penggunaan energi dan sustainabilitasnya. Sistem ini dapat diakses melalui sinergi1.ui.ac.id/ems.

Seluruh informasi pemakaian energi terutama listrik bisa didapatkan dengan filter tertentu. Infografis yang tersaji dalam situs tersebut diperbarui langsung oleh modem yang telah terpasang di setiap gardu listrik di UI. Sistem ini memuat pemakaian energi listrik setiap fakultas dan akan memberikan notifikasi peringatan apabila ada indikasi pemakaian yang melebihi batas kewajaran.

To make energy use more efficient and effective, UI has a management system supported by technical teams of each faculty. This online-based system, which is accessible through sinergi1.ui.ac.id/ems, can monitor energy use and its sustainability.

All information on energy usage, especially electricity, is obtainable through certain filters. The infographics presented on the site are updated directly through installed modems at every electrical substation in UI. This system informs the electrical energy usage in each faculty and will provide a warning notification whenever energy use has exceeded the limit.

Situs Monitoring Pemakaian Energi Listrik
Electrical Energy Usage Monitoring Site

Energi dan Komunitas Lokal
Energy and Local Communities

UI memiliki program yang melibatkan komunitas-komunitas masyarakat terkait sosialisasi dan edukasi pentingnya penghematan energi dan penggunaan energi yang bersih.

UI has a program involving social communities to start energy-saving and clean energy campaign.

Penggunaan Energi Alternatif

Sejak 2005, UI mendampingi masyarakat di Desa Gesing, Kecamatan Panggang, Gunung Kidul, Yogyakarta, dalam pemanfaatan keadaan alam dan geografis untuk mendapatkan terpaan terik matahari serta tiupan angin sebagai sumber energi. Energi yang dihasilkan oleh panas matahari dan tiupan angin ini memutar kincir yang diproses menjadi sumber energi listrik untuk selanjutnya disimpen di sejumlah aki dan masuk ke instalasi listrik sebelum disalurkan ke rumah-rumah warga. Generator listrik di Gesing mampu menghasilkan 1.000 Watt yang bisa menyuplai 5-10 rumah.

Alternative Energy Use

Since 2005, UI has been assisting the Gesing Village community in Panggang District, Gunung Kidul, Yogyakarta, in making use of nature and geographical conditions, sunrays and wind, as the source of energy. The energy produced by solar heat and wind turns the wheel which then produces electrical energy. This energy is then stored in a number of batteries and electricity installations before being distributed to residents' homes. The power generator in Gesing is capable of producing 1,000 Watts and provides electricity supply for 5-10 houses.

Promosi, Petisi, Pertemuan, dan Diskusi Penggunaan Energi Terbarukan

UI di antaranya melalui Fakultas Teknik aktif melakukan promosi dan diskusi terkait penggunaan energi terbarukan.

UI juga memiliki pusat-pusat kajian dan penelitian terkait energi seperti Sustainable Energy Systems and Policy Research Cluster UI (SESP-UI) atau Tropical Renewable Energy Center (TREC) Fakultas of Engineering UI. Lembaga-lembaga ini secara aktif melakukan pengkajian, penelitian, publikasi, dan kampanye terkait penggunaan energi terbarukan.

Promotions, Petitions, Meetings and Discussions on the Use of Renewable Energy

UI Faculty of Engineering has actively conduct promotions and discussions related to the use of renewable energy.

UI also has study and research centers related to energy, such as UI Sustainable Energy Systems and Policy Research Cluster (SESP-UI) or the Tropical Renewable Energy Center (TREC) of UI Faculty of Engineering. These institutions are actively conducting studies, research, publications and campaigns related to the use of renewable energy.

Kolaborasi dengan Industri

Pada November 2019 UI menandatangani kesepakatan kerja sama (MoU) dengan PT PLN (Persero) terkait penelitian bersama (joint research) tentang energi dan kelistrikan yang meliputi transmisi, distribusi, bisnis, korporat, dan niaga.

Collaboration with Industries

In November 2019, UI signed a cooperation agreement (MoU) with PT PLN (Persero) related to joint research on energy and electricity which includes transmission, distribution, business, corporate, and commerce.

Some activities to support SDG 7: Affordable and Clean Energy

UI Launches Healthy Campus and Community Program

UI Public Service Team Invite Public to Pay Power Bills from Waste Management

GOWES, The Revitalization of Spekun UI

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 seventh point of the SDGs, Affordable and Clean Energy, as part of the annual university's sustainability report.

This section also provides some evidence of the university's action to achieve SDG 7. With this program, Universitas Indonesia can be the exemplary campus that campaigns a healthy lifestyle as well as mainstreaming Health and Non-communicable Diseases Promotion for students and the public. Also to support the implementation of this program, Universitas Indonesia holds a collaboration with GOWES, a start-up company that provides the bike-sharing service, to revitalize *Sepeda Kuning* (Yellow Bike) UI which was inaugurated at the "Launching of GOWES Service" event. GOWES, as a transportation service provider, claims that their technology-based service prioritizes healthy environment by not producing sound and air pollution, as explained by Iwan Suryaputra, the Director of PT Surya Teknologi Perkasa.

The Director of PT Surya Teknologi Perkasa has launched three GOWES products, which are bicycle, electric bicycle, and electronic scooter. These products aim that the public can utilize public transportation and its support system provided to decrease traffic jam and pollution.

In other occasions, the Public Service Team of Faculty of Mathematics and Natural Science (Fakultas Matematika dan Ilmu Pengetahuan Alam/FMIPA) UI invite the residents of Sarimukti Village, Garut, to manage their wastes to be given to the Buruken Waste Bank or Bumi Rumtah Power Token. This program aims to raise the awareness of the residents of Sarimukti Village to manage their waste and waste management itself to be a sustainable event.

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: http://green.ui.ac.id/sdg-2019/
3. https://www.ui.ac.id/ui-luncurkan-program-komunitas-dan-kampus-sehat/
4. https://www.ui.ac.id/gowes-perwujudan-revitalisasi-spekun-ui/
5. https://www.antaranews.com/berita/980046/ui-ajak-masyarakat-bayar-token-listrik-dari-kelola-sampah