



UNDIP | UNIVERSITAS
DIPONEGORO
The Excellent Research University

2020/2021

SUSTAINABILITY R E P O R T





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VISSION

“To Become an Excellent Research University”

MISSION

1. Provide education to produce excellent and competitive graduates.
2. Conducts research leading to publications, Intellectual Property Rights (IPR), textbooks, policies, and technologies employed to effectively and efficiently promote cultural and local resources.
3. Organizing community services leading to publications, Intellectual Property Rights (IPR), textbooks, policies, and technologies effectively and efficiently promote cultural and local resources.
4. Develop professionalism, capability, accountability in the university's governance, and the institution's independence to conduct higher education.

VALUE

Universitas Diponegoro commits to internalized the following values to all students, alumni, lecturers, and academic staffs:

1. **Honest.** It is an attitude that upholds honesty in the heart, speech, and deeds.
2. **Brave.** It is an attitude of steadfast and great confidence in taking risks, dangers, and difficulties; to continue the ideals of unrelenting struggle, both physically and spiritually.
3. **Care.** It is a willingness to pay attention to solve social and physical problems in the surrounding communities.
4. **Fair.** It is an attitude that treating others proportionally and along with the truth, adhering to the values of justice, reasonable and responsible.

01



**SETTING &
INFRASTRUCTURE**

CAMPUS SITE



Diponegoro University has a total area of **3,654,750 m²**

TOTAL AREA

The ratio of open space area to total area is 90,29%. With detailed :



forest vegetation
37,89%



water absorption area
24,47%



planted vegetation
25,63%



road area
2,31%

The ratio of building area to total area is **9,71%**

2022

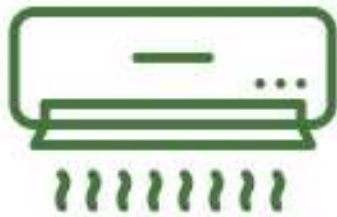


**ENERGY &
CLIMATE CHANGE**

Universitas Diponegoro is committed to reduce the amount of energy required as a solution to the problem of minimizing greenhouse gas emissions by implementing the energy efficient appliances.

ENERGY EFFICIENT APPLIANCES

Efficient 78,57%



AC INVERTER



SOLAR LAMP



LED LAMP

RENEWABLE ENERGY SOURCES

Total Production
2736,15 kWh



SOLAR PANEL

BIODIESEL

BIOGAS

HYDRO POWER

CHILLER

SMART BUILDING IMPLEMENTATION

Ratio Smart Building Area to
Total Area Campus 53,66%

AUTOMATION | ENERGY | INDOOR ENVIRONMENT | SAFETY | WATER | LIGHTING



GREEN BUILDING IMPLEMENTATION

- SOLAR PANEL
- NATURAL VENTILATION
- NATURAL LIGHTING
- WATER EFFICIENCY

IMPACTFUL PROGRAM ON CLIMATE CHANGE



Tree Planting in Campus Area



Tree Planting in Penggaron Forest



Rob calendar for disaster mitigation



Building with nature

INNOVATIVE PROGRAM DURING PANDEMIC COVID-19



Hand washing facilities with sensor technology & stamping



Graduation robot and health service robot



Zeta Green procurement program



Production of surgical and herbal mask

IMPACTFUL PROGRAM ON CLIMATE CHANGE



INNOVATIVE PROGRAM DURING PANDEMIC COVID-19

03



WASTE

Universitas Diponegoro is committed to the development of sustainable waste management practices and the principles of reduce, reuse and recycle.

UNIVERSITY PROGRAMS

REDUCE THE USE OF PAPER & PLASTIC

- Double-sided printing policy program
- Paperless policy through E-Office
- The policy of using glasses and plates in meetings
- Tumbler usage advice and free water supply
- The use of the reusable bag by staff, lecturers, and students



RECYCLING WASTE

Universitas Diponegoro provides categorized trashcans to support recycling activities and the following facilities:



Dipo waste bank



E-waste drop point



Integrated waste treatment plant



Pit Composting

WASTE TREATMENT

**ORGANIC WASTE
(>75% TREATED)**

more than 75% of organic waste is processed in TPST UNDIP, pit composting and biogas station.



INORGANIC WASTE (>75% TREATED)



Inorganic waste was treated in TPST UNDIP. The waste is sorted by type. Some of it is reused as secondary products and the other is sold to third party.



TOXIC WASTE (>75% TREATED)



Universitas Diponegoro collaborates with a certified third party to treat toxic waste. Toxic waste is separated and packaged properly and then handed over to the third party.



SEWAGE DISPOSAL

Universitas Diponegoro wastewater is treated on a septic tank and drained in a period of time by a third party. Universitas Diponegoro also has Wastewater Treatment Plant (WWTP) located in Diponegoro National Hospital.



04



WATER

WATER CONSERVATION PROGRAM

Universitas Diponegoro consistently implements the water conservation program to ensure the sustainability of water stock in Universitas Diponegoro. The programs such as rainwater harvesting tank, lake management system, reservoir, biopores, ponds, etc. are successfully conserved >75% of the water in the university area.



WATER RECYCLING PROGRAM IMPLEMENTATION

Universitas Diponegoro has Wastewater Treatment Installation with capacity 160 m³/day located in Diponegoro National Hospital. More than 75% of wastewater in Universitas Diponegoro has been recycled and used for toilet flushing, watering plants, and other needs.



WATER EFFICIENT APPLIANCES USAGE

More than 50% of Universitas Diponegoro's buildings have installed high-efficient toilet flush and automatic water tap with high efficient water use also.



TREATED WATER CONSUMPTION

In 2020, the average water consumed by UNDIP civitas for domestic purposes was around 5 m³/day. That amount of water is supplied from the Internal Integrated Water Treatment System (owned by UNDIP, located at Vocational School). The system consists of a Reverse Osmosis and Ultrafiltration unit which uses surface water as feed. The water is distributed all over the buildings with a smart dispenser that can be controlled by Real-Time Monitoring System for convenient use.



HANDWASHING AND SANITATION FACILITIES DURING PANDEMIC

All buildings in UNDIP have hand washing facilities, disinfectant chambers, and hand sanitizers on each floor in order to comply with health protocols with an average of >15 facilities in each building.



05



TRANSPORTATION

In order to reduce emission, Universitas Diponegoro take action by reduce private vehicles, make several policies, and provide facility support to the environment

ZERO EMISSION VEHICLES

961
BICYCLE



SHUTTLE
BUS



Universitas Diponegoro Cooperated with the Goverment provide Low Fare Shuttle Bus for regular to move around campus. There are 6 Bus Stops to get in the bus.

PROGRAM TO REDUCE PRIVATE VEHICLES

As time goes by, Universitas Diponegoro always innovate programs and make regulation to reduce private vehicles and shift to ZEV or Public Transportation.



CAR FREE
ZONE



HIGH PARKING
CHARGE



LIMITING
PARKIR AREA



FACILITIES FOR PEDESTRIAN



Universitas Diponegoro fully support facilities for pedestrian and always considerate the aspect of safety and convenience, and disable-friendly features for some parts of the pedestrian.

06



EDUCATION

COURSES

7288
Courses

OFFERED

5900
Courses

RELATED TO
SUSTAINABILITY
(80,95%)

CULTURAL EVENTS

5
Events

RESEARCH FUNDS

\$4,191,978 US dollars

TOTAL

\$3,774,875 US dollars

RELATED TO SUSTAINABILITY
(90%)

STUDENT ORGANIZATION RELATED TO SUSTAINABILITY

19
Organization

START-UP RELATED TO SUSTAINABILITY

22
Start-up

PUBLICATION RELATED TO SUSTAINABILITY (2018-2020)

3056
Publication

EVENT RELATED TO SUSTAINABILITY

156
Events

SUSTAINABILITY COMMUNITY SERVICES PROJECT ORGANIZED AND/OR INVOLVING STUDENTS

145 Projects

97.7 Berjasa Pro Aka Sains & SDGs Center Undip

TALKSHOW #5

97.7 SDGs Center Undip

Serie "Kambaran untuk Persepsi Sustainability Campus"

JUMAT 30 OKTOBER 2020
08.00 - 07.00 WIB

Report dibagikan melalui:

97.7
Siaran langsung
07.3 PM

Streaming Audio
PROALMA FM
Tombol:
PROALMA STORM

Hosts:
Ariyanti, Ph.D.
M. Nur Hafid A. Prasetya, Ph.D.

Jurnal Kimia Sains & Aplikasi

JKSA Webinar series on Chemistry

Biologically relevant sensing catalysis

Prof. David G. Churchill
GAST Visiting Professor of Science and Technology

Host:
M. Nur Hafid A. Prasetya, Ph.D.

Wednesday 9th September 2020
09.00 - 10.00 WIB

Zoom Meeting
Registration:
<https://bit.ly/3Wb0C8z>
90 minutes provided



Faculty of Humanities
Diponegoro University

FREE SUMMER COURSE 2020

LEARNING INDONESIAN LANGUAGE THROUGH BATIK

AS YOU JOIN THE COURSE YOU WILL

- be familiar with various motifs of Indonesian Batik
- be introduced with traditional tool and technique for painting Batik
- be able to travel to centres of Indonesian Batik
- understand the philosophy of Batik

JOIN US  ZOOM

bit.ly/SummerCourseBatik



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September 13-20, 2020
09.00-11.00 (GMT+7)

EDUCATION



Universitas Diponegoro is committed to continuously promote sustainability. Leadership, inclusiveness, and innovations are main pillars to ensure Universitas Diponegoro as the leading green campus nationally and globally.