



DIPONEGORO UNIVERSITY'S
SEMARANG

Environmental

Sustainability Report 2019/2020



2,357,719 m²
44,904 Students
3,727 Staff
35 % Forest Area
25 % Planted Vegetation Area





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Introduction

History

In the early 1950s, people in Central Java, especially in Semarang, needed a university for providing higher learning and teaching facilities. It has been purpose to support of government in handling and in conducting all sectors of development, especially in the field of education. At that time, it was only Gajah Mada University as a public university, that providing higher education for people in Yogyakarta and also Central Java.

As amount of senior high schools graduated has been continuously increasing, while existence of universities limited, some graduates could have not been accommodated at higher education facilities in north of Central Java. Considering this situation, MR. Imam Bardjo and his colleagues formed an educational foundation, namely Yayasan Universitas Semarang (Foundation of Semarang University), noted by notary R.M. Soeprapto on Notarial Deed No 59, December 4, 1956. The foundation was a first step to establish a university in Semarang, namely Semarang University, that officially opened on January 9, 1957, and MR. Imam Bardjo was the first President of the university.

When Semarang University celebrated its third Dies Natalis on January 9, 1960, President of Indonesia, Ir. Soekarno renamed the Semarang University as Diponegoro University. Changing the name of Semarang University was intended as a tribute to the university's performance in development of higher education in Central Java. The President's decision was confirmed by the Government Regulation No. 7 1961 and Decree Minister of Education, Teaching and Culture No. 101247 / UU on December 3, 1960.

The decision was retroactive to October 15, 1957, and this date is commemorated as the day of Diponegoro University's Dies Natalis as well as for remembering "Five Days Battle in Semarang", which is part of Indonesian National Revolution war that took place in Semarang



logo of Diponegoro University

City. Diponegoro University chooses the date as its Dies Natalis for continuing national heroes' ideals of compiling Indonesia's independence by developing the nation's intellectual life. Diponegoro University is a contribution the next generation to carry on the mandate from national independence heroes.

The year of 1957 was defined as the year of Diponegoro University's establishment, by considering history of Semarang University as a private university founded on 1957 was an embryo of Diponegoro University. The date of October 15, 1957 as Diponegoro University's Dies Natalis was stated in Rector's report on the 13th Dies Natalis of Diponegoro University.

The long reputation of Diponegoro University has delivered it to be among the top national higher education entities, which bring competitive advantage for the alumni and deliver intellectual works of research and publications.

Currently under Government Regulations No. 81 /2014 and Government Regulations of Indonesia Republic No. 52/2015, Diponegoro University earns the status of PTNBH (Perguruan Tinggi Negeri Badan Hukum-State Owned Higher Education with a Legal Entity Status).



Visions

“An excellent research university”

Missions

1. To conduct educations that produce competitive and outstanding graduates.
2. To conduct research that results in publications, intellectual property rights, text books, policies, as well as useful and applicable technologies in promoting local culture and resources.
3. To conduct high quality and sustainable community services.
4. To improve professionalism, capability, and accountability leading to good governance and autonomy of the university

Values

Diponegoro University is committed to instill the following mental values to all students, alumni, lecturers and academic staff:

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



Aspect of Sustainability Concern in Diponegoro University



● Setting & Infrastructure



● Smart Building &
Green Building



● Waste



● Water



● Transportation



● Education & Research





ENERGY

RENEWABLE ENERGY SOURCE



HYDRO ENERGY



SOLAR PANEL



BIOGAS



CHILLER

ENERGY EFFICIENT APPLIENCES USES



ECO AIR CONDITIONER

▼ 20-40%



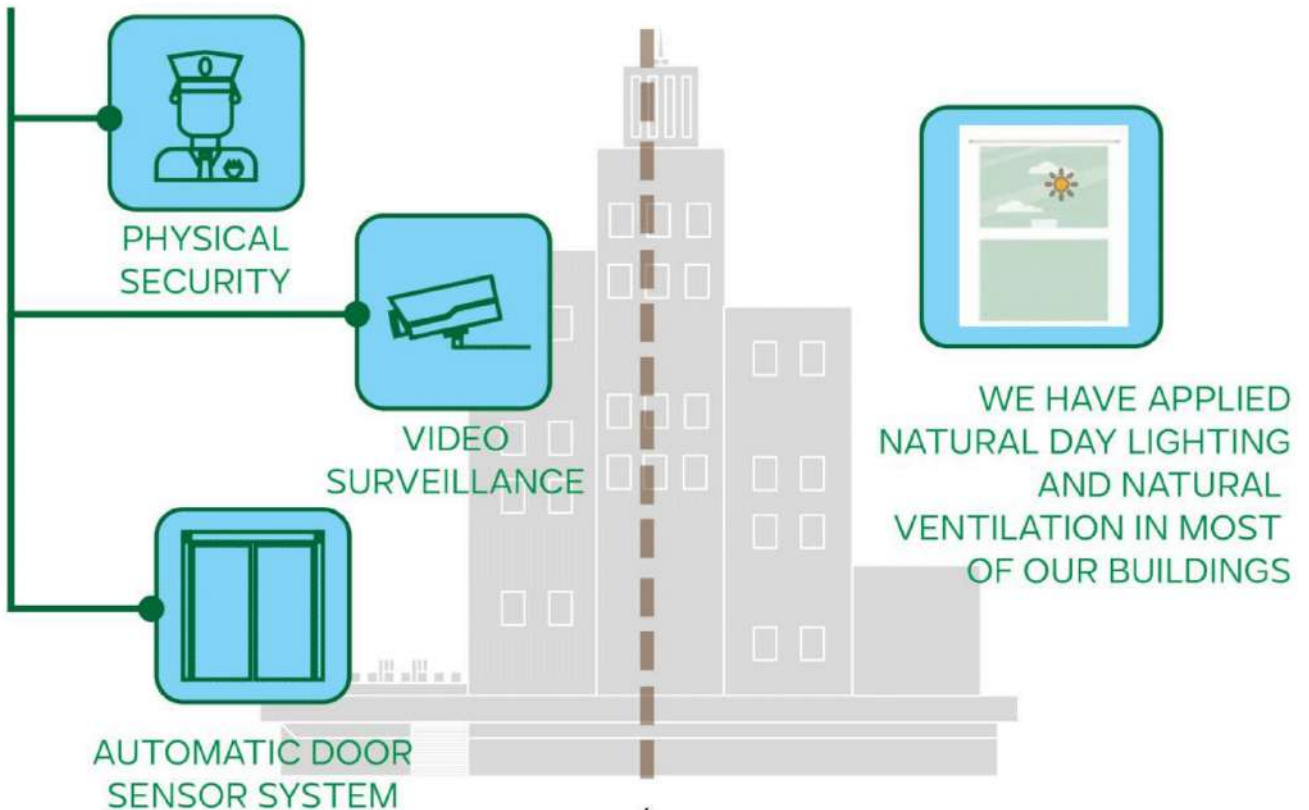
LED LIGHT

▼ 20-40%

▼ 20%

RATIO OF RENEWABLE ENERGY PRODUCED TOWARDS ENERGY USED

SMART BUILDING AND GREEN BUILDING





WASTE

DIPONEGORO UNIVERSITY HAS A MATERIAL RECOVERY FACILITY (MRF) KNOWN AS TEMPAT PENGOLAHAN SAMPAH TERPADU (TPST)



FACILITIES

- COMPOSTER
- PLASTIC COUNTING MACHINE
- LEAF COUNTING MACHINE
- BOOTH FOR COLLECTING WASTE

ACTIVITIES

- RECYCLING (50%-75% OF UNIVERSITY WASTE)
- COMPOSTING (>75% OF UNIVERSITY WASTE)
- TOXIC WASTE MANAGEMENT (<50% OF UNIVERSITY WASTE)

UNIVERSITY PROGRAM TO REDUCE THE USAGE OF PLASTIC AND PAPER

DOUBLE-SIDED PRINTING PROGRAM IS APPLIED IN DIPONEGORO UNIVERSITY ACADEMIC ACTIVITIES I.E. STUDENT'S



TUMBLER USAGE IS APPLIED IN DIPONEGORO UNIVERSITY THROUGH INTERNAL SOCIALIZATION ON STUDENTS AND LECTURERS

REUSABLE BAG USAGE IS APPLIED THROUGH AN ANNUAL FREE TOTE BAG OFFERING IN EARTH DAY EVENT



DEMATERIALIZATION OF ADMINISTRATIVE PROCEDURES IS APPLIED FOR EVERY MORE THAN 5 YEARS COPIED DOCUMENTS

WATER



Diponegoro University has some water conservation programs and have succeeded conserve more than 75% water in university area

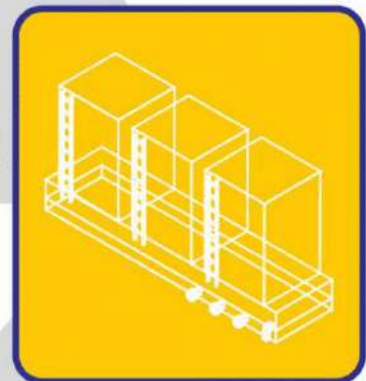


Diponegoro University have a Wastewater Treatment Installation that located in Diponegoro University Hospital.

Water Recycling Program

about **25-50%**

Wastewater in University have been recycled and used as flushing water and for



Water Efficient Appliances Usage

about **50-75%**

Buildings in Diponegoro University have installed a water efficient appliances such as high efficient toilet flush.



TRANSPORTATION

8 SHUTTLE BUS



240 CARS

700 BICYCLE



1755 MOTORCYCLE

0,38% of total main campus area are used as parking lot

Diponegoro University has some programs related to transportation policies to reduce gas emission produce from vehicles, the programs ar such as :



ZERO EMISSION VEHICLES (zev)

Diponegoro University has a policy that manage the ZEV in campus area. The University provided more than 700 bicycles for a free usage, for students and staff of Diponegoro University. This program is arranged to reduce the gas emission produced from vehicles in campus area. About 0,016% students and staff in Diponegoro University has been succeeding this program by using bicycle on campus area.



Shuttle services in Diponegoro University come from goverment allied with Diponegoro University. Bus shelter is available in some strategic point in University and for students who take the bus get a payment discount.

The pedestrian path in Diponegoro University is designed to be safe, convenient, and disabled friendly in some parts. Safe means enough lighting and separated from road for vehicles. Convenient means the path covered with paving brick and diretion signs are available in strategic point. While disabled friendly is count with the availability of hand rail in some part of the paths



EDUCATION AND RESEARCH



TOTAL COURSES IN DIPONEGORO UNIVERSITY ARE 5348 WHICH 65,9% (OUT OF 3525 COURSES) OF THEM ARE RELATED TO SUSTAINABILITY



UP TO **90%**

OF DIPONEGORO UNIVERSITY TOTAL RESEARCH FUNDS IS DEDICATED TO SUSTAINABILITY RESEARCH



PUBLISHED MORE THAN 300 PUBLICATIONS RELATED TO SUSTAINABILITY



HAVE MORE THAN 10 SUSTAINABILITY ORGANIZATIONS IN CAMPUS



HELD MORE THAN 47 EVENTS RELATED TO SUSTAINABILITY



DIPONEGORO UNIVERSITY SUSTAINABILITY WEBSITE



DIPONEGORO UNIVERSITY SUSTAINABILITY REPORT



We're always looking ahead; considering a more sustainable future. As set out in our vision, we understand the need for a long term view of sustainability

And 2019/20 looks set to bring all this and more. Next year is filled with exciting opportunities as we continue to develop many of our projects and activities, and brand new ones are inevitably born. We will increasingly focus on the sustainability is embedded into the way we work and the wider impact we can have. We will also strengthen our commitment to the circular education approach. Opportunities to get involved in sustainability will increase. We are looking to develop an approach to engaging staff in sustainability, including a full review of the Green Impact programme and taking a look at our wider student opportunities to ensure everyone can develop their knowledge, understanding, and practical skills. We're also looking to develop a new Green Campus Programme, an incredibly important faculty role to help university leadership teams to set targets, policies and standards and to plan for future development. This hugely valuable experience will give a positive impact on the university's sustainability development. As we continue to contribute to the Sustainability Development Goals, our global outlook will increase as our environmental, social, economic and cultural impacts are regarded through an international lens. As an university, this enhances the sustainability of all involved and reinforces our core purpose to increase knowledge and opportunity for the betterment of society

www.sustainability.undip.ac.id

UNDIP
SEMARANG