



UNIVERSITAS
DIPONEGORO

Sustainability Report

2025-2026

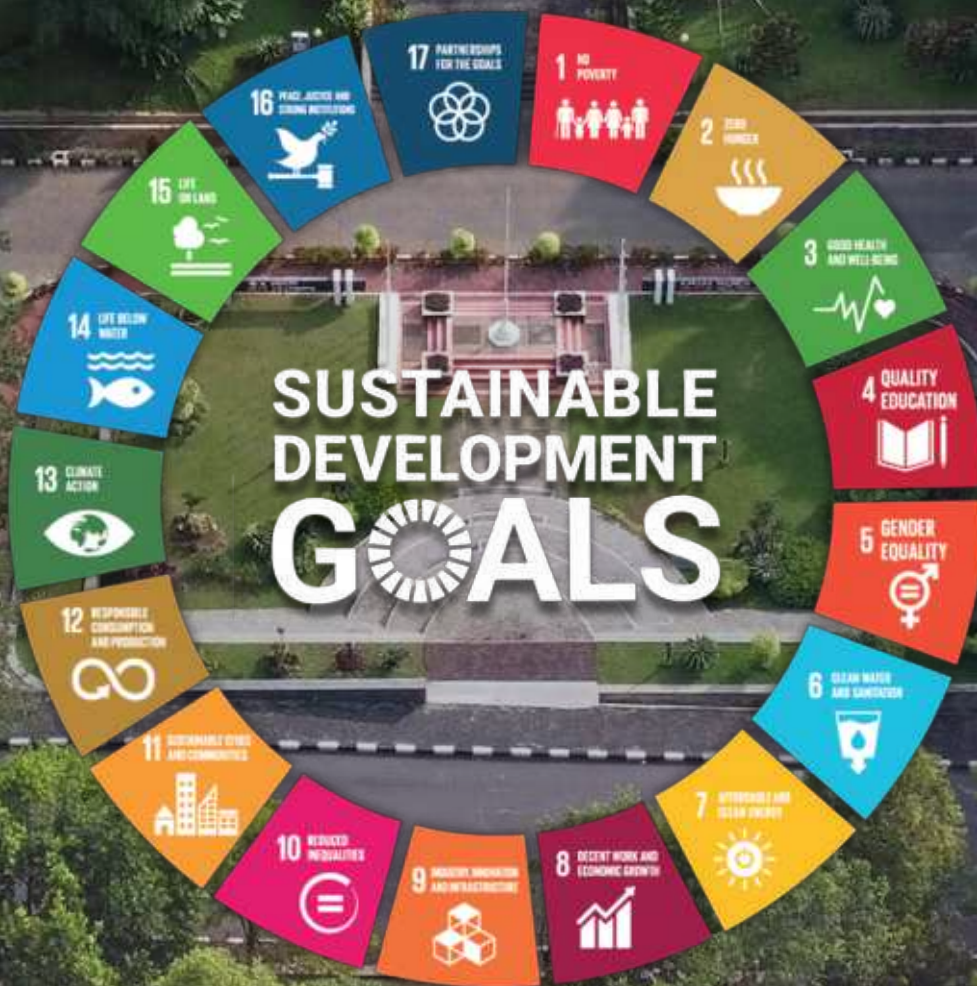


Table of Contents

Introduction

Vision, missions, and values

Environmental Aspects of Universitas Diponegoro



Setting and Infrastructure (SI)



Energy and Climate Change (EC)



Waste (WS)



Water (WR)



Transportation (TR)



Research and Education (ED)



Government and Digitalization (GD)



Introduction

Universitas Diponegoro, located in Semarang City, Central Java Province, is well known as Top university in Indonesia aims to be World Class University (WCU) with the vision of Excellent Research University. Founded in 1956, it is initially as a private university, but then earned the status of public university in 1961. Undip has 142 study programs in 11 faculties, 1 postgraduate school, and 1 vocational school. The word “Diponegoro” derived from name of our national hero, Pangeran Diponegoro, whom a patriotic prince stirred up freedom spirit from Dutch colonialism in the early 19th century, which has inspired efforts to establish UNDIP.

Universitas Diponegoro (UNDIP) is a public university in Semarang, Indonesia, which has comprehensive areas of study with a vision of Excellent World Class Research University. Focusing on Coastal Region Eco Development, UNDIP aims to create graduates who contribute to the development of science, technology, arts, culture and education at national and international level. As a World Class Research University, UNDIP focuses its research and academic activities toward Coastal Region Eco Development, emphasizing environmental sustainability and ecological improvement in coastal areas.

Undip has many research centers with various research areas supporting the achievement of Sustainable Development Goals (SDGs). With collaborative research motivation, UNDIP is open to establishing partnerships with both domestic and international universities. In addition, UNDIP is also recognized as one of sustainability campus with active contributions in SDGs achievement.

Universitas Diponegoro is also committed to advancing the Sustainable Development Goals (SDGs), with a focus on setting & infrastructure, energy & climate change, waste, water, transportation, and research & education. Lecturers, students and various campus units have created programs to create a safe, healthy, and sustainable environment for all campus activities.

Furthermore, under the leadership of the Rector, UNDIP also upholds the values of “Noble and Valuable”, which reflect the commitment to build a university community that is ethical, dignified, impactful, and beneficial for society. These values emphasize integrity, excellence, and social contribution as the foundation of every academic, research, and institutional activity at Universitas Diponegoro.



Vision

“The Excellent Research University”

Mission

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

Values

- Universitas Diponegoro commits to internalized the following values to all students, alumni, lectures, and academic staff:
- Honest. It is an attitude that upholds honesty in the heart, speech, and deeds.
- 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.
- Care. It is a willingness to pay attention to solving social and physical problems in the surrounding communities.
- Fair. It is an attitude that treating others proportionally and along with the truth, adhering to the values of justice, reasonable, and responsible



1 Setting and Infrastructure



CAMPUS SITE



AREA PERCENTAGE

The ratio of open space to total area is

91.65%

Forest Vegetation

36.56%



Planted Vegetation

32.56%



1.28%

Road Area

Setting and Infrastructure at Universitas Diponegoro

HEALTH INFRASTRUCTURE



Health infrastructure available system and accessible for public

FACILITIES FOR DISABLE



Facilities exist in all buildings and are fully operated

SECURITY AND SAFETY



Security infrastructure is available and fully functions and security responding time for accidents, crime, fire, and natural disasters is less than 5 minutes.

CONSERVATION PROGRAM



Support the achievement of SDG 2 (Zero Hunger), SDG 14 (Life Below Water) and SDG 15 (Life on Land), committed to fully implementing ongoing conservation agriculture.





2 Energy and Climate Change (EC)

IMPLEMENTATION

Univesitas Diponegoro has taken significant steps to improve energy efficiency as part of its commitment to achieving Sustainable Development Goal (SDG) 7 “Affordable and Clean Energy” and Sustainable Development Goal (SDG) 13 “Climate Action”.

ENERGY EFFICIENT APPLIANCES USAGE



81% of street
light use energy
efficient bulb



94% of air
conditioning units
are using inverter AC
and use Non-CFC
based



91% of the
building lights use
LED lamps

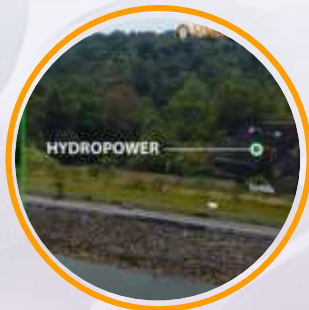




THE TOTAL PRODUCTION OF RENEWABLE ENERGY



261,567.84 kWh



HYDROPOWER

Hydropower
67,356.28kWh



Wind Power
53.00 kWh

TOTAL
330,292
kWh



Biogas
719.07 kWh



Biodiesel
300.00 kWh



Combined Heat Chiller
116.75 kWh

GREEN BUILDING IMPLEMENTATION



Element 1
Energy Efficiency Lighting Zoning



Element 2
Indoor Environmental Quality
(HVAC)



Element 3
Sustainable Site Planning
& Management



Element 4
Materials & Resources
Recycled Content Materials



Element 5
Water Efficiency
Water Harvesting & Recycling



Element 6
Innovation
Green Building Index Facilitator

SMART BUILDING IMPLEMENTATION AT THE UNDIP

The total area of Campus Smart Building

945,547.48 m²

Solar Panel LED



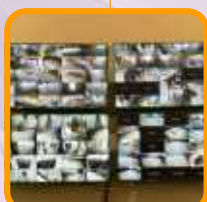
Shielding Adjustment



Fire-fighting



HVAC System



CCTV



Thermal comfort



Energy Monitoring



Water







3 Waste



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

REDUCE, REUSE & RECYCLING PROGRAM



Seberling
(Ecobrick & Eco-enzyme)



Dipo Waste Bank



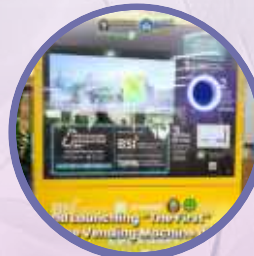
Integrated Waste Treatment Plant (IWTP)



Pit Compost & Compost Bag



Undip Circular Campus Studio



Reverse Vending Machine (RVM)

100% of the waste generated at Diponegoro University was recycled



Reduce The Use of Plastic & Paper Program

- Double-sided printing policy program
- Paperless policy through Microsoft clouds & office
- Tumbler usage advice and free water supply
- Plastic bag ban in campus



Organic Waste Treatment



100% Treated Organic Waste



All organic waste is processed in Integrated Wasted Treatment Plant (IWTP), Pit Composting & Compost bag, and Biochar producing.





INORGANIC WASTE

100%

is recycled through a process that include sorting & reprocessing, and they've introduced a program like the Seberling program to engage students & promote sustainable practices, while residues are processed using a plastic pyrolysis machine to produce gasoline fuel and wax for paving blocks.



TOXIC WASTE HANDLING



Universitas Diponegoro collaborates with a certified third party to handle toxic waste. Prior to being sent to a third party, the toxic waste is segregated, securely packaged, and transferred with care.

100%





TERTIARY TREATMENT & SEWAGE DISPOSAL



Universitas Diponegoro utilizes Tertiary Treatment for sewage recycling, enhancing water quality and promoting sustainability. Campus units and Diponegoro National Hospital contribute to wastewater quality maintenance. Treated water serves fish ponds, drainage, and decorative plants, setting examples for water conservation.



UNDIP Zero Waste: Towards a Sustainable Campus





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4 Water



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Universitas Diponegoro Improve Water Quality & Sanitation Services

Aligned with SDGs 6: Clean Water & Sanitation

WATER ABSORPTION AREA



Lake



Area
Infiltration



Permeable
Paving
Blocks



Grass



Soil

40.58%

Water Absorption Program

WATER CONSERVATION PROGRAM



Biopores



Pond



Rainwater
Harvesting



Infiltration
Well



Reservoir



Arboretum

Water Conservation Initiatives Implemented

64.64%



WATER RECYCLING PROGRAM IMPLEMENTATION



Recycling
Pump



Plants Watering
Activities



Grade Water
Treatment

93.75%

**Wastewater
Recycling Rate**



Wastewater
Treatment
Installation



Garden
Sprinkler



Water Treatment
Plant for Student
Housing

WATER EFFICIENT APPLIANCES USAGE



Urinal Flushing

87.94%

**Reduction in water use
through smart water-saving
devices**



Smart Flushing
Toilet



Garden
Sprinkler



Automatic
Sensor Water
Tap



Water
Efficient Use
Campaign



CONSUMPTION OF TREATED WATER



Reverse
Osmosis

91.05%

of Water Supply from
Treated Sources
including drinking water,
wastewater, and
desalination systems



Desalination
Water

WATER POLLUTION CONTROL



Septic Tank



Beach Clean-Up

Diponegoro University prevents water pollution through regular water quality audits and the use of wastewater treatment plants (IPAL) and septic tanks



Wastewater Treatment
System



Water Sampling
Program







5 Transportation



ZERO EMISSION VEHICLES (ZEV)



261

units electric
motorcycle

1349

free bicycle to
rent

The ratio of Zero Emission
Vehicles to total campus
population is

0.022



The total number of vehicles
(car and motorcycles) divided
by total campus population is

0.0415



PEDESTRIAN PATH



4524 m

Total length of
pedestrian walkway
and bicycle route

Universitas Diponegoro provides pedestrian sidewalks that are secure, comfortable, and facilitated with accessibility for people with disabilities. Additionally, it has solar-powered lights and speed bumps to increase pedestrian safety.





Universitas Diponegoro is dedicated to lowering carbon emissions through the use of fewer personal vehicles. Among the actions implemented are

- Car-free zones,
- Shuttle service within the campus,
- High parking fees
- Free access bicycles



Parking
Restrictions



PARKING LOT

Ratio of total main
campus area used as a
parking lot

0.94%



Shared Parking
facilities



Trans
Semarang



High Parking
Charge



1349 Bicycles
PitKU



CCTV

SHUTTLE SERVICE



10 Units

Electric Buggy Car

22 people can fit in each electric buggy. Four electric buggies run for free each day. Two of them are powered by solar panels by Vocational School, while eight are powered by electricity.







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6 Research & Education



Courses

The total number of courses offered in Universitas Diponegoro is **9,848** and **9,722** of them are related to sustainability

98.72%

Research Funds

The total research funds is **\$5,603,776** with **\$5,584,995** is dedicated to Sustainability Research

99.66%

Organization

Have **40** sustainability organizations on campus and **354** Event related to sustainability by Student Organization for 3 Years



Published **6012** Publication related to sustainability for the past 3 years



Held **480** International Event related to sustainability



604 Community service activities related to sustainability



Has **45** start up related to sustainability



Held **40** cultural event related to sustainability

Sustainability Research & Education







7 Government & Digitalization



TRANSPARENCY
Ensuring openness in
information and decision-
making processes.



INTEGRITY
Acting ethically,
honestly, and
consistently in all
actions.



ACCOUNTABILITY
Upholding responsibility
and performance
accountability at all levels.



**GOOD
GOVERNANCE**



PARTICIPATION
Engaging stakeholders in
collaborative governance
and decision-making.



**DIGITAL
TRANSFORMATION**
Leveraging technology
and innovation to
improve efficiency,
transparency, and
service quality

OUR GOVERNANCE FOUNDATIONS

SUSTAINABILITY COMMITTEE



Leading and coordinating
sustainability initiatives and
strategic decision-making
across the university.

SDGS CENTER



Driving SDG integration,
research, and collaboration for
sustainable impact.

CODE OF ETHICS



Promoting ethical behavior and
academic integrity across the
campus.

ANTI- CORRUPTION & INTEGRITY POLICY



Implementing zero tolerance
toward corruption and
strengthening integrity systems.



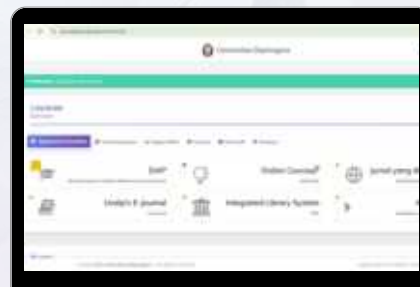
Integrated Digital Campus Ecosystem

Universitas Diponegoro builds an integrated digital campus ecosystem that connects academic, administrative, research, and sustainability systems to deliver efficient services, support data-driven decisions, and strengthen transparency across the university.



SSO (Single Sign-On)

One account for
all UNDIP services.



SIAP

Integrated
academic and
administrative
management
system.



Kulon LMS

Digital learning
platform for
teaching and
collaboration.



MOOCs

Open online courses
to expand access to
quality education.



Sustainability Dashboard

Evaluation and
Report sustainability
performance.



Green Monitoring Energy

Monitoring energy,
water, and emission
in real time.

DIGITAL TRANSFORMATION IMPACT



Faster public
services



Integrated academic
management



Data-driven decision
making



Transparent
sustainability reporting



GOVERNANCE IMPACT



Leadership Meetings



Integrity Activities



UPT Perpustakaan & Undip Pres

Digital Literacy



Public Services



Sustainability Committee



Institutional Governance

“

Universitas Diponegoro continues strengthening transparency, accountability, innovation and digital transformation to support a sustainable future.

”

For The Earth, For The Future



We are always committed in implementing sustainability

Universitas Diponegoro remains steadfast in advancing sustainability as a core institutional commitment. Guided by the principles of leadership, inclusivity, and innovation, the University continuously strengthens its integration of sustainable practices across education, research, community engagement, and campus operations. Through these ongoing efforts, Universitas Diponegoro aspires to reinforce its position as a leading green university, recognized both nationally and globally for its contribution to sustainable development.

www.undip.ac.id
www.sustainability.undip.ac.id