



UNIVERSITAS NEGERI SURABAYA





To become a strong, adaptive, and innovative educational university based on entrepreneurship



- 1. Organizing education in the educational and non-educational fields with a tough, adaptive, and innovative character based on entrepreneurship.
- Carrying out research and improving the quality of innovation in the educational and non-educational fields based on entrepreneurship.
- Carrying out community service and disseminating innovation in the educational and non-educational fields based on entrepreneurship for the welfare of society.
- 4. Organizing Tridharma activities for higher education through a multi-campus system in a synergistic, integrated, harmonious, and sustainable manner by taking into account UNESA's advantages.
- Carry out effective, efficient, transparent and accountable governance that guarantees quality on an ongoing basis
- Carry out productive national and international collaboration in creating, developing and disseminating innovations in the educational and non-educational fields based on entrepreneurship.







1 SETTING AND INFRASTRUCTURE

Type of Higher Education Institution Comprehensive

Climate

Tropical Wet and Dry

Number of Campus Site

2 Sites

Campus Setting

Urban

Total Campus Area

949,314.00 m2

Total Campus Ground Floor Area of Buildings 180,851.00 m2

Total Campus Buildings Area 755,000.00 m2

The Ratio of Open Space to Total Area.

> 90 - 95%

Total Area on Campus Covered in Forest Vegetation

> 35%

Total Area on Campus Covered in Planted Vegetation

>40%

Total Area on Campus for Water Absorption Besides Forest and Planted Vegetation

> 30%



Total Number of Academic and Administrative Staff 1920 staffs

The Total Open Space Area Divided by Total Campus Population >20-40/person

Total University's Budget (in US Dollars) \$36,079,839

University's Budget for Sustainability Effort (in US Dollars) \$7,676,423

Percentage of University's Budget for Sustainability Effort 22.67%

Percentage of Operation and Maintenance Activities of Building in One Year Period

91%







Campus Facilities for Disable and Maternity Care

Facilities are partially available and operated

Security and Safety Facilities

Security infrastructure is available and fully functions and security responding time for accidents, crime, fire, and natural disasters is more than 10 minutes

Health Infrastructure Facilities for Students and Academic and Administrative Staff Wellbeing

Health infrastructure (first aid, emergency room, clinic and certified personel) available

Conservation: Plant (flora),
Animal (fauna), and Wildlife,
Genetic Resources for Food and
Agriculture Secured in Either
Medium or Long-Term Conservation
Facilities

Conservation program fully implemented



2 ENERGY AND CLIMATE CHANGE

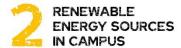






ENERGY EFFICIENT APPLIANCES USAGE

TOTAL CAMPUS SMART BUILDING AREA 44,895.619 M²
SMART BUILDING IMPLEMENTATION 78.74%



AMOUNT OF THE ENERGY PRODUCED

9.640 KWH

CLEAN BIOMASS

-

59.400 kwh SOLAR POWER











'8.67 ELECTRICITY USAGE KWH PER YEAR

TOTAL ELECTRICITY USAGE DIVIDED BY TOTAL CAMPUS POPULATION

RATIO OF RENEWABLE ENERGY PRODUCTION DIVIDED BY TOTAL ENERGY USAGE PER YEAR

3 ELEMENTS



OF GREEN BUILDING IMPLEMENTATION AS REFLECTED IN ALL CONSTRUCTION AND RENOVATION POLICIES







UNESA

GREENHOUSE GAS EMISSION REDUCTION PROGRAM

AIMS TO REDUCE
ALL THREE SCOPES EMISSIONS
(SCOPE 1, 2 AND 3)





4,566.56
METRIC TONS
TOTAL CARBON FOOTPRINT

> 0.10 - 0.42

METRIC TON

TOTAL CARBON FOOTPRINT DIVIDED BY TOTAL CAMPUS POPULATION



MORE THAN 3

INNOVATIVE PROGRAMS
IN ENERGY AND CLIMATE CHANGE



PROVIDE TRAINING AND EDUCATIONAL MATERIALS FOR SURROUNDING COMMUNITIES, AT NATIONAL, REGIONAL, AND INTERNATIONAL LEVEL











Unesa provides bicycles for students and locals to ride in order to help the movement to limit the usage of motorized cars. This step can be used to start a healthy lifestyle by cycling. Cycling is undoubtedly highly essential and has a significant impact on lowering air pollution in Surabaya.



Eco-enzyme accelerates the biochemical processes in nature to manufacture usable enzymes from fruit or vegetable waste. Enzymes from "garbage" is one method of waste management that turns kitchen scraps into something very useful. In this situation, the eco-enzyme function will be used as a hand sanitizer, dish soap, and floor cleaning soap





UNESA supports and facilitates these organizations in instilling environmental awareness. One concrete example of activities conducted by these organizations includes **tree planting** by REE and UNESA. By planting trees, it will bring about broader benefits, both for humans and the environment





3 WASTE



Partial (> 50% - 75% of waste) program for university's waste

MORE THAN 3 PROGRAMS

to **reduce** the use of **paper and plastic** on campus



WASTE TREATMENT







ORGANIC

4192 TON

Organic Waste Produced

3563 TON

Organic Waste Treated

Treatment Partial (>50%-75% of Treated)

INORGANIC

838 TON

Inorganic Waste Produced

766 TON

Inorganic Waste Treated

Treatment Partial

(>50%-75% of Treated)

TOXIC

0.15 TON

Toxic Waste Produced

0.108 TON

Toxic Waste Treated

Treatment Partial

(>50%-75% of Treated)



Eco-enzyme is a multifunctional solution or liquid created through fermentation from organic waste such as fruit and vegetables. Pouring these compounds into lake water offers numerous advantages, including cleaning and breaking down harmful contaminants in the water.

Eco-bricks, a product created from plastic mineral water bottles filled with sorted plastic sachets that have been cleaned with soap. Following that, the plastic sachets are chopped into small pieces to aid in the drying process. The dried sachet pieces are then placed and crushed in a plastic drinking bottle until it is completely full. Unesa students will be required to collaborate in the collection, sorting, and processing of waste in this waste recycling program





Compost is made at Unesa from organic waste in the form of dried leaves and branches, which are cut and then placed in the composter. Water will be poured to the composter, and the compost will be allowed to mature for 2-3 months

UNESA Sewage Disposal Treated with

Treated with Tertiary Treatment







4 WATER





> 50%





Water Efficient
Appliances Installed





Water Recycled



Water Conserved





Policy and programs for water pollution control are fully implemented & monitored regularly

Universitas Negeri Surabaya **prevents and reduces all sorts of water pollution**, particularly those caused by land-based activities. UNESA manages the lake environment (reservoir) jointly at both the Lidah Wetan and Ketintang campuses. The management strategy is to sustain the biotic and abiotic quality of the lake ecosystem through a variety of activities.



Water Efficient Appliances



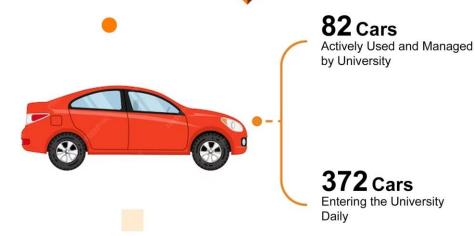
Drinking Water Treatmen (Air Minum Unesa)

Water Recycling Programs





5 TRANSPORTATION





> 0.045 - 0.125 Total number of vehicles (cars and motorcycles) divided by total campus's population



Shuttle service is provided

by university and the university contributes a part of the cost.







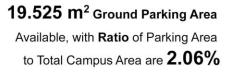
Zero Emission Vehicles (ZEV)

are **Available**, and **Provided** by University for **Free**

with Average Number of **110 ZEV** on Campus Per Day



The total number of Zero Emission Vehicles divided by total campus population is **0.00297**





Less than 10% decrease from Transportation program designed to limit or decrease the parking area on campus for the last 3 years with > **3 transportation initiatives** to decrease private vehicles on campus

Pedestrian paths are available,

designed for safety, convenience, and in some parts provided with **disabled-friendly features**



6 EDUCATION AND RESEARCH

24.1%

Ratio of Sustainability Course

53.3%

Ratio of Sustainability Research Funding

1608 Courses/Subjects Related to Sustainability Offered From 6656 Total Courses/Subjects Offered

\$1,175,954 Total Research Funds

Dedicated to Sustainability Research

From \$2,204,987

Total Research Funds



1020

Scholarly Publications

on Sustainability

Published for

18-47

Events Related to

Sustainability for The Past 3 Years

>10

Activities Organized

by Student Organizations Related to Sustainability Per Year







UNESA sustainability website is available, accessible, and updated occasionally at

sustainability.unesa.ac.id/

Sustainability Report is **Published Annually**





MORE THAN 3

- Events of Cultural Activities
- University Programs with International Collaborations
- Sustainablity Community Cervices Project
 Organised and Involving Students



UNESA Has >15 Sustainability-related Startups

