



Universitas Sebelas Maret

# SUSTAINABILITY REPORT 2023

# INTRODUCTION

## Prof. Irwan Trinugroho, S.E., M.Sc., Ph.D

Vice Rector for Planning, Collaboration, Internationalization, and Information

Assalamu'alaikum Warahmatullahi  
Wabarakatuh,

All praise is due to Allah, the Almighty God, who has granted us His grace and blessings, allowing the completion of this 2023 Sustainable Development Goals (SDGs) report. This report is a tangible manifestation of our university's commitment to supporting the achievement of sustainable development goals as set forth by global entities, including Indonesia.

As an institution of higher education, we play a significant role in shaping future generations who are mindful of global issues, particularly in sustainable development. Through policies we implement—such as inclusive education programs, eco-friendly energy management, and support for research and innovation in sustainability—our university strives to make a real impact in supporting the SDGs targets. These policies have proven effective in raising awareness and fostering active participation among the entire academic community in supporting quality education, maintaining ecosystem balance, and promoting inclusivity.



This report summarizes the achievements, challenges, and direct impact of the policies we have implemented, both within and beyond the university. We recognize that achieving the SDGs requires strong synergy between various stakeholders. Therefore, this report also serves as an invitation to all stakeholders to collaborate in building a more inclusive, fair, and sustainable development ecosystem.

In closing, we extend our gratitude to the entire report preparation team and to all parties who have contributed to the implementation of SDGs policies and activities within our university. May this report serve as an inspiration and reference for all of us in supporting the achievement of the SDGs in Indonesia.

Wassalamu'alaikum Warahmatullahi  
Wabarakatuh.

# Universitas Sebelas Maret

## KEY FACTS

- Universitas Sebelas Maret covers an area of approximately **463,93 hectares** and is distributed over **20 distinct sites** including teaching and learning facilities as well as field learning locations.
- The ratio of open space area to the total area of the campus is **92,3%** consisting of areas covered with vegetation, water, and materials which can absorb water.
- The area of the campus covered by forest vegetation spans approximately **341,9 hectares**.
- A total of **532** Intellectual Property Right.



# SUSTAINABILITY REPORT



## 1 NO POVERTY



“At least 10% of the world’s population live in extreme poverty, unable to fulfil the most basic needs - food, health, education, access to clean water and sanitation. Universities need to be able to demonstrate how they are helping to address this problem through their work.”

**-THE Impact Rankings**

**1 NO POVERTY**



<b>Number of</b>	
<b>Total students</b>	<b>27,868</b>
<b>Low income students receiving financial aid</b>	<b>10,137</b>

“  
**1.73**  
**Citation Impact**”

**RESEARCH IN NUMBERS (2016-2023)**  
  
**128**  
**publication**



**1 NO POVERTY**

**END POVERTY IN ALL ITS FORM EVERYWHERE**



**1 Eradicating Poverty Through Student Innovation: Expo of Village Products**

Universitas Sebealas Maret held a **Village Product Expo** under the guidance of Merdeka Belajar Kampus Merdeka (MBKM) students which is a series of implementation of the MBKM village development program. This event aims to **implement the results of the MBKM village development program**. Expo participants came from MBKM Village Development students, PPK Ormawa, Bina Desa Center, KWU Center, P2MD, P2MW, and Wibawa. In addition to students, several partners also participated in the event. The product categories displayed included processed food, fashion, art, crafts, appropriate technology, education, and several other categories.



**193 booths**

**3,880 students**

**404 groups**



**2 Zakat Collection Unit: An Effective Solution to Reduce Poverty**

The Zakat Collection Unit (UPZ) plays a strategic role in addressing poverty through the **professional management of zakat, infak, and sedekah (charitable donations)**. UPZ Universitas Sebelas Maret has implemented **various programs**, including the collection and distribution of Zakat, Infak, Sedekah, Mosque Infak, Kakak Asuh (foster sibling program), Yatim (orphans), and other donations. The distribution includes scholarships for students, scholarships for foster siblings, orphan scholarships, free ambulance services, health aid, aid for the poor, and Islamic outreach activities. These **beneficiaries were spread across four main programs**, namely: Education Program, Humanitarian and Disaster Program, Economic Program, and Islamic Outreach Program.



**12,015 recipients**

# SUSTAINABILITY REPORT



## 2 ZERO HUNGER



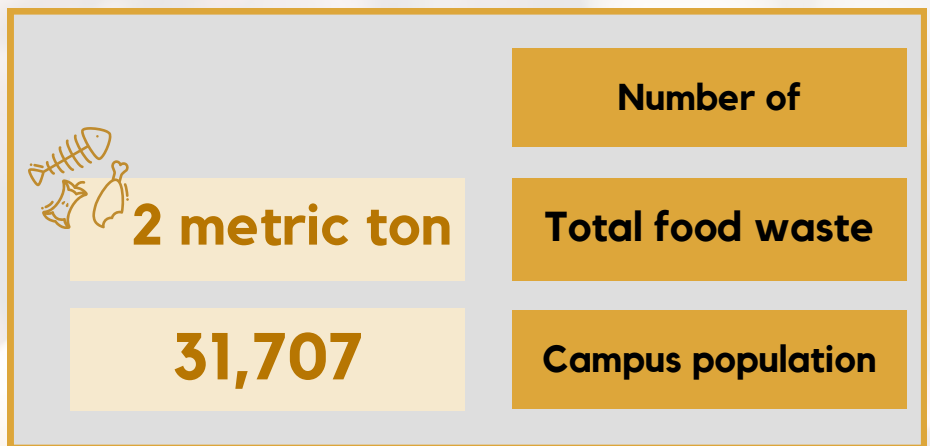
# 2 ZERO HUNGER



“The ability to feed the world is a key element of sustainable development. If done right, agriculture, forestry and fisheries can provide nutritious food for all. At the same time it can ensure rural development with people at the centre of the process, supporting the incomes of those who rely on agriculture.

Universities need to be able to demonstrate how they are contributing to end hunger, achieve food security and improved nutrition and promote sustainable agriculture.”

## -THE Impact Rankings





## 1 | Education on Food Security

The **Agrotechnology Study Program** of the Faculty of Agriculture Universitas Sebelas Maret held the 2023 **Agrotech's Fest National Seminar** which is expected to contribute to the development of **sustainable crop production technology**. All discussions at the seminar are expected to inspire various young generations in realizing **national food security**.



The Board of Professors of Universitas Sebelas Maret held the 4th idea forum themed **Building Food Resilience, Security, and Sustainability in the Framework of World Food Day**. This activity is a commitment to **how agriculture can be developed**. How to consume food, not only the totality of carbohydrates as the main thing but also knowing the comparison that can be consumed every day. This activity also produces solutions that must be developed so that food affected by climate like this must continue to be produced. Later it will lead to a **form of food availability** which is none other than food security.

## 2 | Social Action for Food Welfare Through the Qurban Sampai Pelosok (QSP) Program



Number of the packages distributed

4,477 packages

Zakat Collection Unit (UPZ) UNS through the **"Qurban Sampai Pelosok"** (QSP) program, invites the community **to share the joy with the poor in remote areas** who are still lacking. Qurban entrusted through UPZ UNS will be distributed through UPZ UNS Partners and volunteer networks. In the 2023 **"Qurban Sampai Pelosok"** (QSP) program, a total of 189 Sheep/Goats and 4 Cows from 211 Qurban Sohibul were managed. Qurban is managed by 45 partners and more than 300 volunteers are involved in this program. The target areas for **"Qurban Sampai Pelosok"** **reach 46 regions**.

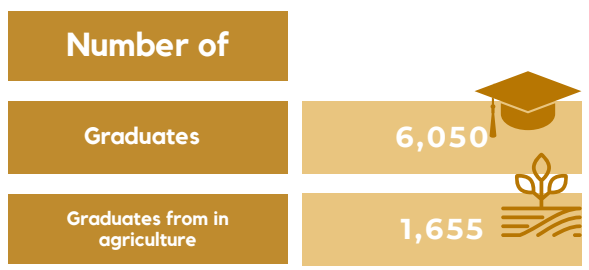


### 3 | Processed Food Innovation

The Student Creativity Program (PKM) Entrepreneurship Team of Universitas Sebelas Maret created a snack bar product from processed avocado seeds and moringa leaves. This food is named AVOBAR, an abbreviation of Avocado Snack Bar which represents the main composition of the product. This healthy food product not only meets nutritional needs but can also **help reduce symptoms of dysmenorrhea**. The idea to create this product arose because many women experience dysmenorrhea, which is pain during menstruation.



The Community Service Team (PKM) which is part of the Indigenous Psychology Research Group (RG) of the Faculty of Psychology, Universitas Sebelas Maret held an activity entitled "Development of Traditional Recipes (Indigenous Recipe) for Herbal Medicine Cookies at UMKM UMMA Surakarta". This activity is in collaboration with UMKM UMMA. This activity is an effort **to develop alternative products**, because the majority of herbal medicine products are still limited to beverages, either in the form of ready-to-drink liquids or ready-to-brew herbal medicine powder. Given its properties that can cure diseases, are safe and economical, it is necessary to develop other herbal medicine products, such as food or cookies. Processing into cookies was chosen because cookies have a low water content so they are easier and more durable to store.





## 3 GOOD HEALTH AND WELL-BEING



“Ensuring healthy lives and promoting well-being at all ages is essential to sustainable development. There is an urgent need to fully eradicate a wide range of diseases and address many different persistent and emerging health issues.”

**-THE Impact Rankings**

**3 GOOD HEALTH AND WELL-BEING**



<b>Number of</b>	
<b>Graduates</b>	<b>6,050</b>
<b>Graduates in health professions</b>	<b>1,302</b>

“  
**2.2**  
 Citation Impact

**RESEARCH IN NUMBERS (2016-2023)**

 **928**  
 publication



### 3 GOOD HEALTH AND WELL-BEING



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

### 1 Free Health Screening for Academic Community through Institutional Posbindu

Medical School (FK) at Universitas Sebelas Maret held **routine Institutional Development Post (Posbindu)** activities for the FK UNS academic community on Friday, 12 Mei 2023. Taking place at the FK UNS Auditorium, this activity was attended by dozens of academics who wanted to check their health. The activity is a **workplace screening program focused on early detection of Non-Communicable Diseases (NCDs)**. In this service, FK UNS academics who have their health checked will receive blood pressure checks, weight and height measurements, abdominal circumference measurements, blood sugar level checks and free consultations on health problems. FK UNS itself is one of ten consortium members from Europe and Southeast Asia who **have a research project called Scaling-Up NCD Interventions in South-East Asia (SUNI-SEA)** which focuses on preventing and controlling NCDs.

### 2 Nutrition Counseling for Pregnant Women with Chronic Energy Deficiency



The activity **Nutrition Counseling for Pregnant Women with Chronic Energy Deficiency** is targeted at 2 pregnant women who have chronic energy deficiency conditions who live in Gawan Village. This counseling prioritizes **the importance of knowing the signs and symptoms** of chronic energy deficiency as well as the nutrition that can be given to prevent chronic energy deficiency. Apart from providing counseling to pregnant women, **preventive programs** also carried out through Youth Posyandu with **adolescent reproductive health** as the main theme. Considering that there is still a high incidence of early marriage in Gawan Village, the KKN 237 Team is providing education regarding the importance of maintaining reproductive health and achieving balanced nutrition as a form of prevention against risk factors for chronic energy deficiency in the future.



### 3 GOOD HEALTH AND WELL-BEING



# ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

## 3 | Social Service Located in Trosemi Village

The Medical Education Study Program at Universitas Sebelas Maret held a **Social Service activity** on 27-29 October 2023. This activity was attended by around 200 FK UNS Medical Education students Class of 2023. Located in Trosemi Village, Gatak District, Sukoharjo Regency, this Social Service was filled with various activities such as **Health Counseling, Health Check Clinics, Bazaars and Distribution of Basic Foods**. The aim of this activity is to provide new students with the opportunity **to experience direct interaction with the community** and get an idea of how doctors work to serve the community so that later they can implement the knowledge they have gained from college to help the community in solving health problems.



## 4 | Strengthening Maternal Resilience in Optimizing the Growth and Development of Toddlers and Stunting Prevention

Lecturers from the Undergraduate Study Program and Professional Education for Midwives as well as Doctoral Students in Public Health Sciences at Universitas Sebelas Maret carry out research and community service activities with the theme "Strengthening Maternal Resilience in Optimizing the Growth and Development of Toddlers and Stunting Prevention".

It is hoped that this activity can increase the resilience and toughness of mothers who have stunted children so that they are empowered to improve their children's welfare and health.





## 4 QUALITY EDUCATION

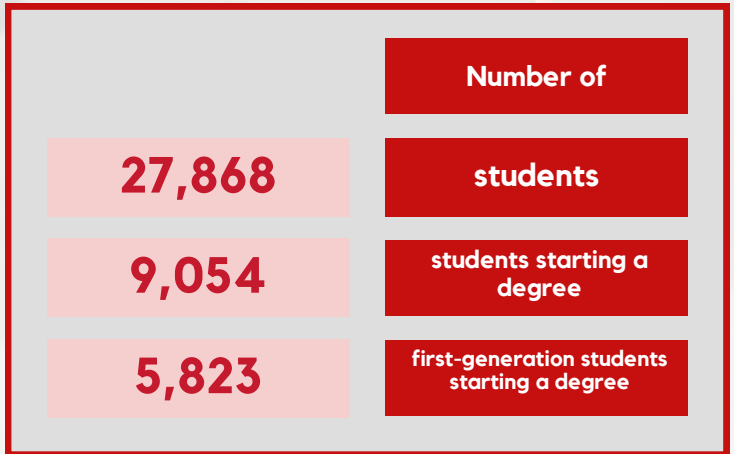
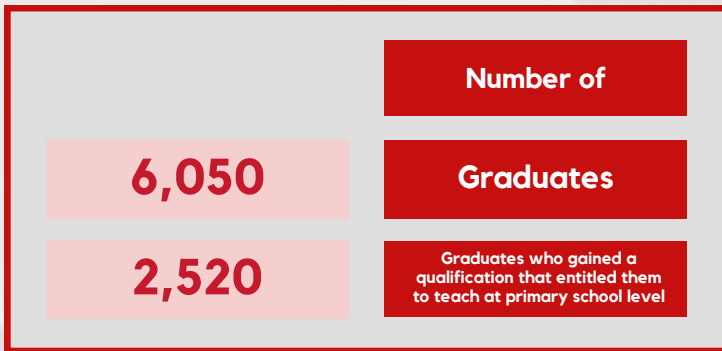


# 4 QUALITY EDUCATION



“A high-quality education should be an area where universities excel. Education is a key gateway out of inequalities, especially multigenerational ones. In addition to improving quality of life, access to inclusive education can help equip locals with the tools required to develop innovative solutions to the world’s greatest problems.”

## -THE Impact Rankings





# ACCESS TO KNOWLEDGE RESOURCES THROUGH VARIOUS EXCELLENT PROGRAMS

## 1 | Making Hopes Come True, Educating with Love

Solid Family of Bidikmisi Universitas Sebelas Maret Students or more commonly referred to as Komadiksi Smart, has successfully held the 2023 Komadiksi Mengajar translated to Komadiksi Teaching activity. The 2023 Komadiksi Mengajar with the theme "Making hopes come true, Educating with love" has the aim of **helping the learning process of students at the elementary/middle school level**. This activity was attended by several Komadiksi administrators Smart and the **volunteers** who were registered as active UNS students were 87 students in 26 schools. Komadiksi Mengajar activities were carried out from July 17 to August 19 2023, in 8 teaching meetings. In the last meeting, farming activities were held.



## 2 | Making Hopes Come True, Educating with Love

The group 134 of Community Service Program of Sebelas Maret University provided **learning innovation with gamification methods** in 5th class of State Elementary School (SDN) 2 Banmati, Sukoharjo. Gamification is a learning method that applies the working principles of games in the learning process. In the context of this program, gamification is applied in the classroom as a way **to create a more interactive and interesting learning environment**. The main purpose of the Gamification program is to **introduce a more interactive class atmosphere** through the application of games in learning. Through element identification games, The UNS KKN Team hopes that **students can be more active and interested** in learning, so that they can improve students' understanding and skills in absorbing lesson material.



# SUSTAINABILITY REPORT



**5**

**GENDER  
EQUALITY**





“Women and girls continue to suffer discrimination and violence in every part of the world. Gender equality is a fundamental human right, and a foundation for a peaceful, prosperous and sustainable world. Providing women and girls with equal access to education is a key part of delivering gender equality, but universities also have a wider role to drive forward gender equality in their communities.”

**-THE Impact Rankings**

**5 GENDER EQUALITY**



Number of	
employees	3,839
academic staff	1,856
senior academic staff	1,264
female senior academic staff	526

Number of	
students	27,868
students starting a degree	9,054
first-generation students starting a degree	5,823
women starting a degree	6,338

“ **1.48**  
Citation Impact

RESEARCH IN NUMBERS (2016-2023)  
 **78**  
publication



## 5 GENDER EQUALITY



# LIFE WITHOUT HARASSMENT, EXCLUSION, AND DISCRIMINATION

## 1 | Advocating for the End of Female Genital Mutilation

**Female Genital Mutilation (FGM)** is often mistakenly perceived as a minor procedure, but it involves significant alteration and injury to the external female genitalia performed by non-medical personnel with unsanitary tools. The ongoing practice of FGM, often affecting infants and girls up to 15 years old, is deeply rooted in traditional customs passed down through generations, **imposed on individuals against their will.**



Universitas Sebelas Maret through its student organization, Model United Nations (MUN) Club, organized a webinar with the theme **"Embracing Women's Dignity and Autonomy by Ending Female Genital Mutilation."** The goal of the webinar was to **raise public awareness about the dangers of Female Genital Mutilation or Cutting** and to help reduce the prevalence of this practice, which remains widespread today.

## 2 | International Symposium and Seminar

Universitas Sebelas Maret hosted the ASJI Annual International Symposium & Seminar on Japanese Studies in Indonesia, focusing on **"Human Security Issues: Revisiting the Concept of Human Security from the Perspective of Japan and Indonesia."** Siti Atikoh Suprianti, S.T.P., M.T., M.P.P a member of ASJI's Honorary Council in Central Java, discussed four potential collaboration areas: healthcare, disaster management, economic stability, and gender equality. In her presentation on **"Gender Equality,"** she stressed the importance of **empowering women** to enhance community development and strengthen human security.



**5 GENDER EQUALITY**

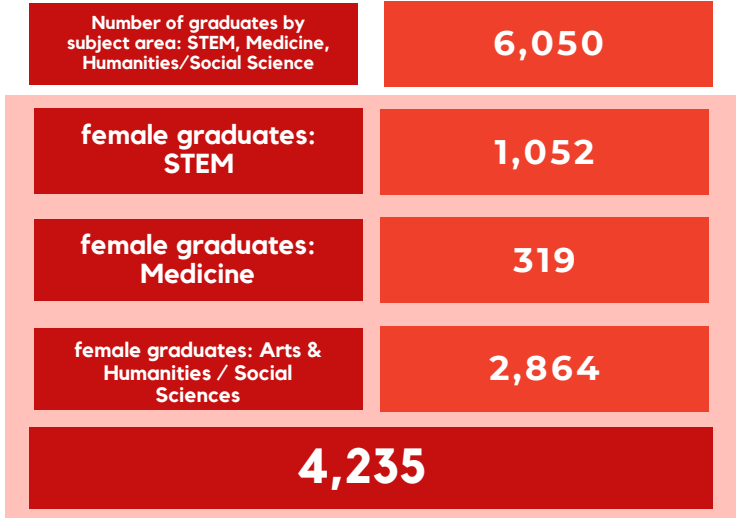


# LIFE WITHOUT HARASSMENT, EXCLUSION, AND DISCRIMINATION

## 3 | The Population and Gender Research Center

The Population and Gender Research Center (PPKG) at Universitas Sebelas Maret aims to create **an inclusive higher education environment** that upholds human rights, diversity, and national unity. PPKG also aspires to **become a globally recognized** Centre of Excellence with a strong reputation and business growth.

Through its podcast "#RuangGembira," the center promotes **gender equality** and human rights, especially for Indonesian women, by raising awareness of important social issues.



## 4 | Gender Inclusivity: Perspectives at Universitas Sebelas Maret

Gender inclusivity at Universitas Sebelas Maret **promotes equality** by recognizing the potential of all individuals, regardless of gender. The Student Executive Board (BEM) of UNS conducted interviews with students, revealing **strong support for gender inclusivity**. Many respondents emphasized the **importance of women in shaping future generations** and **their ability to perform tasks and think independently**. To further raise awareness, BEM UNS shares gender inclusivity information via their Instagram accounts @bemuns and @datalks.uns **for the broader academic community**.





## 6 CLEAN WATER AND SANITATION

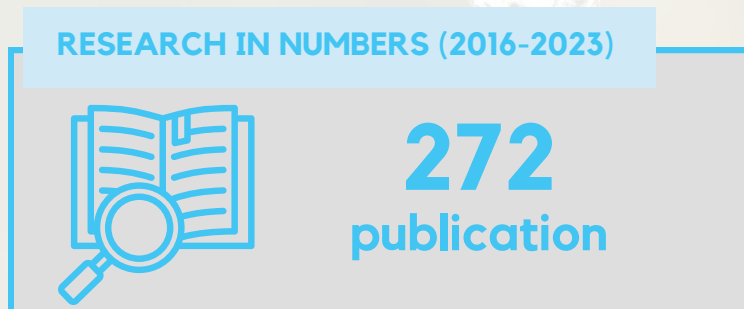
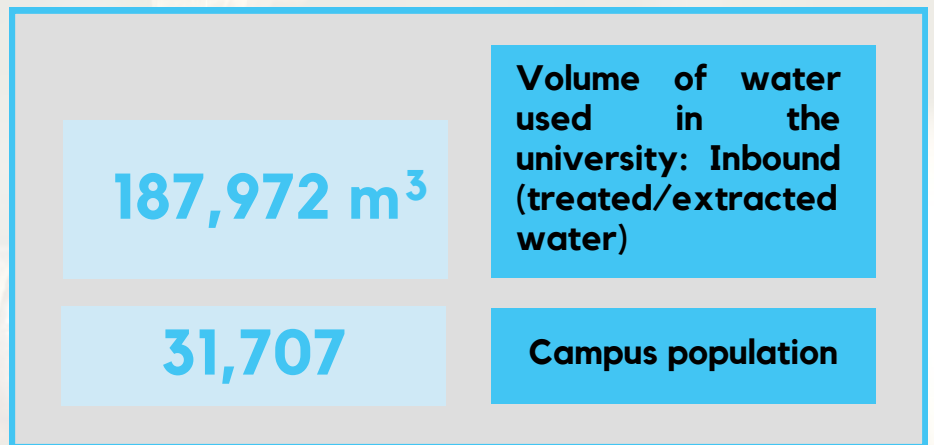


# 6 CLEAN WATER AND SANITATION



“Without water we can’t live. Water supports out agriculture and aquaculture. Clean water is vital. However, due to bad economics or poor infrastructure, millions of people including children die every year from diseases associated with inadequate water supply, sanitation and hygiene.”

## -THE Impact Rankings



6 CLEAN WATER AND SANITATION



ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

1 | Clean Wells in Karanganyar and Wonogiri Regencies

The Zakat Collection Unit of Universitas Sebelas Maret (UPZ UNS) launched the "Sumur Bersih" translated as "Clean Well" development program. This program began in 2020 in **areas struggling to access clean water** and continues to this day.

One of the projects took place at the Ulil Albab Islamic Boarding School in Gondangrejo, Karanganyar, starting on March 1, 2023, and completing with a handover ceremony on May 26, 2023. The 83-meter-deep well now **serves 125 beneficiaries**, including students and staff of the boarding school.



In July 2023, UPZ UNS built another Sumur Bersih in Dusun Sumber, Sendang Village, Purwantoro Subdistrict, Wonogiri Regency. The well was officially inaugurated on Wednesday, October 25, 2023, and named "Tirto Mulyo." As the name suggests, "Tirto Mulyo" conveys the hope that the community can utilize the "tirto" or water from the well for collective benefit, leading to "mulyo," meaning prosperity and well-being. This 80-meter-deep well **meets the needs of nearly 50 households** in the village.



## 6 CLEAN WATER AND SANITATION



# ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

## 2 | Water Purification of UNS Lake with Eco-Enzyme

Universitas Sebelas Maret commemorated World Environment Day by pouring 1,000 liters of **eco-enzyme** into UNS Lake to help purify its water. The solution was produced by faculty members and students from the Faculty of Mathematics and Natural Sciences (FMIPA) UNS using **fermented vegetable and fruit waste**. This initiative aims to **make the lake's water usable** for watering plants, **reducing reliance on groundwater** and **supporting long-term sustainability**.



## 3 | Gravity-Based Water Supply for Drought Solutions

A gravity-based water supply system was implemented in the Forest Farmer Group Wonosewu farming area of Mojogedang **to address drought issues**. Organized by a community service team from the Soil Science Study Program at Universitas Sebelas Maret, the initiative aims **to create a water reserve for tenant farmers** in the Special Purpose Educational Forest Area of Mount Bromo Karanganyar. Excavation, pipe installation, and water tank setup were completed on August 7, 2023. The program focuses on supporting avocado plant development and **providing emergency water reserves**, particularly during the dry season.

**6 CLEAN WATER AND SANITATION**



**ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL**

**4 | Water Purification of UNS Lake with Eco-Enzyme**

In 2023 Universitas Sebelas Maret have conserved >50% water. Conservation programs at UNS include: **The construction of UNS Lake**, spanning 1,206 ha with a volume of 7,959 m<sup>3</sup> and connected to the Bengawan Solo River, features several water conservation initiatives. These include **117 shallow infiltration wells**, a **rainwater collection pool**, over **630 biopori holes**, and **paving blocks** for rainwater retention. A 90.90 ha **campus forest** has been established, planting 8,664 trees of 429 species, along with a 0.45 ha arboretum of rare and fruit-bearing plants.

These efforts **have improved infiltration** by 48.88%, **reduced surface water flow**, and **enhanced the microclimate**.



Lake UNS	1.206 ha	Campus forest	90,90 Ha
Shallow infiltration wells	117 units	Trees planted	8.664 trees
Biopori hole	630 holes	Arboretum area	0,45 Ha

**5 | Encouraging the Community to Create Biopores**

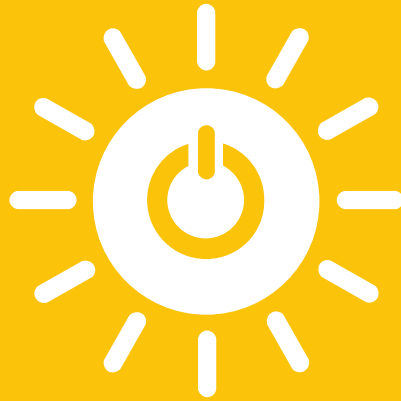
Universitaas Sebelas Maret continues to **promote environmental sustainability** by engaging the community in creating biopores at various locations in the Jebres Subdistrict on June 5, 2023, in celebration of World Environment Day. These locations included schools, public spaces, and the UNS Faculty of Teacher Training and Education (FKIP). This activity **involved active participation from the local community**, who supported and assisted in creating and maintaining the biopores. The initiative helps to **improve water absorption**, environmental aesthetics, and public health, while also **raising awareness about the importance of environmental care**.





# SUSTAINABILITY REPORT

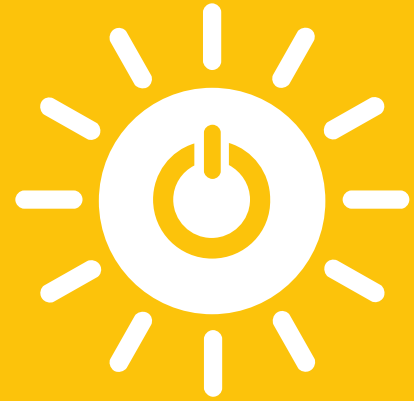
## 7 AFFORDABLE AND CLEAN ENERGY



“After water and food, energy is one of the key enablers of human life. Energy is central to nearly every major challenge and opportunity the world faces today and access to energy for all is essential. But energy needs to be available and affordable to all to allow future development, and it needs to be clean in order to ensure that the development can be sustainable.”

**-THE Impact Rankings**

**7 AFFORDABLE AND CLEAN ENERGY**



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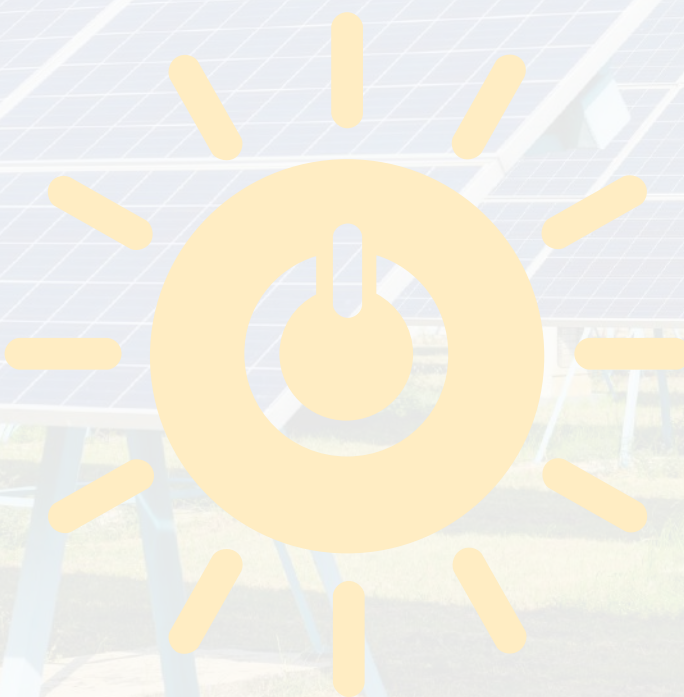
**2.17**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)

**908**

publication



**7 AFFORDABLE AND CLEAN ENERGY**




**1 Sign of Progress of Renewable Energy**

Educational institutions are instrumental in accelerating the transition to renewable energy that prioritizes the **health of the planet** and ensures a more **resilient energy system** for generations to come. In acknowledgment of that, Universitas Sebelas Maret is committed to showcasing the future of renewable energy usage.

**Renewable energy** in Universitas Sebelas Maret is generated through **Solar Panels** located in six faculties and five institutions and **Biodiesel** located in five faculties. Renewable energy sources were used as lighting and various activities that require energy.



**2.802,44 GJ**  
total energy produced



**2 Fuel-Efficient and Environmentally Friendly Vehicle**

The **Bengawan Team** achieved outstanding results in two different categories in **Kontes Mobil Hemat Energi (KMHE) 2023** held by Ministry of Education, Culture, Research and Technology at the Jakarta International E-Prix Circuit (JIEC) Ancol, from 28 October to 3 November 2023.

As a result, the team successfully winning **1st place** in the Urban Category for Internal Combustion Engine Diesel Class with Nirakara car and **2nd place** in the Prototype Category for Internal Combustion Engine Gasoline Class with Wirasena car.

**Nirakara**  
**766.92 km/L**

**Wirasena**  
**222.21 km/L**



**7 AFFORDABLE AND CLEAN ENERGY**



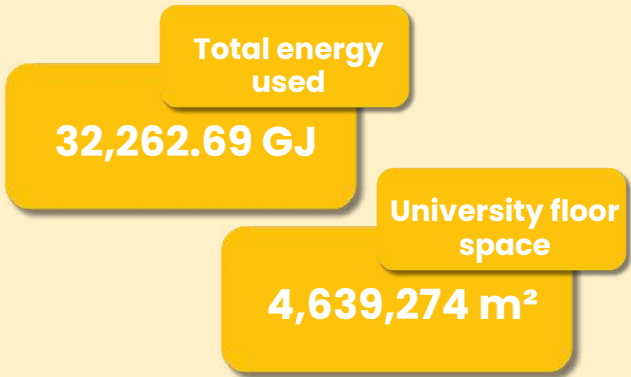
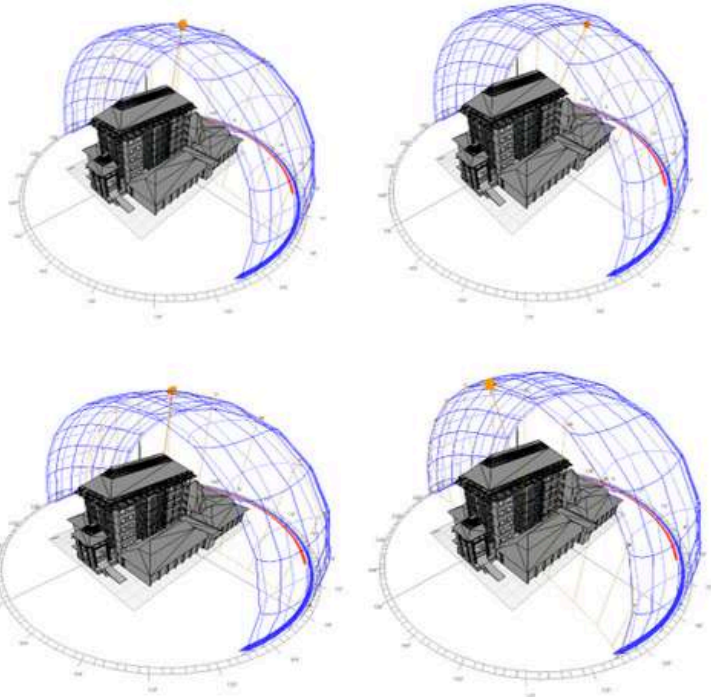
**ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL**



**3 Creating High-Efficient Building with the Right Upgrades**

**Energy efficiency** is the use of less energy to perform the same task or produce the same result. Universitas Sebelas Maret is undertaking important initiatives to reduce energy consumption and support environmental sustainability as part of its long-term commitment. This is done through replacing existing building technology with **more energy efficient technology**, thereby allowing for more efficient **reductions in energy expenditure**. Implementing green building is one effort to increase energy efficiency in buildings.

Several elements have been implemented at Universitas Sebelas Maret, such as **natural ventilation** and **lighting**, use of **energy-saving systems**, **building management systems**, and analysis of environmentally friendly building components based on **Ecotec software**.





## 8 DECENT WORK AND ECONOMIC GROWTH



# 8 DECENT WORK AND ECONOMIC GROWTH




“Decent work in safe and stable conditions is a vital component of helping people out of poverty, with the related aspects of reducing hunger and increasing health. The rise of precarious employment, modern slavery, and uneven growth has created threats to a sustainable future. Universities as employers can lead the way, as teachers can educate for the future, and as innovators can develop new and fairer ways of working.”

## -THE Impact Rankings

Number of	
students	27,868
students with work placements for more than a month	8,829

Number of	
employees	3,701
employees on contracts of over 24 months	3,701
academic staff	1856
expenditure (IDR)	1,519,694,854,206

“  
**2.62**  
 Citation Impact

RESEARCH IN NUMBERS (2016-2023)  
  
**452**  
 publication



## 8 DECENT WORK AND ECONOMIC GROWTH



# PROMOTE SUSTAINED, INCLUSIVE, AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### 1 Digital Marketing Workshop for the youth and Village-Owned Enterprise

A team from Universitas Sebelas Maret held a **Digital Marketing Workshop for the youth and Village-Owned Enterprises** in Ngargoyoso Village, Karanganyar Regency. The workshop, organized by the Komadiksi Smart Student Organization, aimed **to equip the participants with skills** in online media marketing, business licensing, and strategies for promoting local products from Micro, Small, and Medium Enterprises. This initiative focused on **boosting the marketing of products** developed by the Candrawati Mandiri Women's Farming Group.



The expected outcome of the workshop is for the village's youth **to apply their newly acquired digital marketing skills** to promote their products, thereby **enhancing their brand visibility** and **attracting customers** from different regions. This initiative is part of a broader effort to transform Ngargoyoso Village into an entrepreneurial hub, **strengthening the local economy** and **supporting sustainable growth** for its residents.

### 2 Digital Platform Socialization

A team from Universitas Sebelas Maret Community Service Program organized a socialization event in Margomulyo Village, Banyuwangi, Surakarta, **to support the development of Micro, Small, and Medium Enterprises.**



They provided **local entrepreneurs with guidance** on using MSME Application Modules, which include Financial Recording Applications, Branding Applications (Google Maps), and Payment Applications (QRIS). These tools aim **to help businesses improve financial management, increase visibility, and facilitate digital transactions.** The initiative promotes responsible financial management by improving spending efficiency, reducing debt risks, and enhancing future planning. It also introduces QRIS digital payments for a more secure, efficient, and transparent payment system, decreasing cash reliance.



## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



“Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries.”

**-THE Impact Rankings**

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



**1.02**  
Citation Impact

### RESEARCH IN NUMBERS (2016-2023)



**417**  
publication



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



# BUILD RESILIENT, INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION, AND FOSTER INNOVATION

## 1 Lithium Nickel Manganese Cobalt Oxide and Lithium Iron Phosphate as Cathode Materials for Li-Ion Batteries

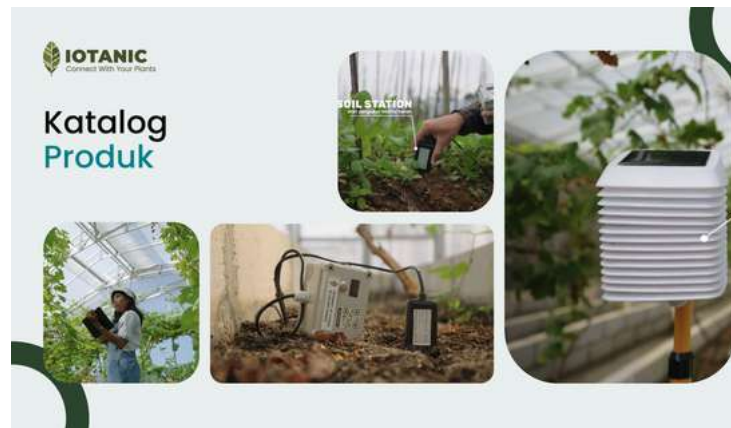
The demand for Li-ion batteries and the growth of electric transportation in Indonesia are not matched by the readiness of the battery manufacturing industry, so Indonesia should utilize its nickel and iron resources for battery cathodes to reduce dependence on imports and prevent raw material exports that benefit foreign companies.

This problem can be addressed by utilizing cathode materials produced by PT Polimikro Berdikari Nusantara (PBN). PBN has developed production technology to process Indonesia's mineral resources into cathode materials, based on **research conducted under Universitas Sebelas Maret**, which **has been patented to protect intellectual property**.

Extensive testing has ensured the product's competitiveness with imports, while the production method uses organic additives for eco-friendly waste.

With the increasing demand, abundant natural resources, and mature technology, PBN has the opportunity to become the **first pioneer producer** of cathode materials in Indonesia.

## 2 Universitas Sebelas Maret iHub Incubated Startup: IoTanic



IoTanic is a **technology company** that offers innovative Internet of Things (IoT) solutions for the agricultural sector, focusing on enhancing efficiency, productivity, and sustainability in farming practices. Its main products include hardware and software that monitor and manage critical aspects like soil quality, irrigation, and fertilization, with the vision of driving digital transformation in agriculture and supporting **more sustainable farming**. IoTanic makes contribution in the implementation of the SDGs by focusing on energy efficiency, sustainability, and the integration of technology to improve quality of life.



**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**BUILD RESILIENT, INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION, AND FOSTER INNOVATION**

**Number of University Spin-Offs**

**55**

**3** Sebelas Maret Startup Academy (SEMESTA) Bright



Sebelas Maret Startup Academy Bright is a program that fosters **the growth of pre-startups/startups** through a series of selection and incubation processes organized UNS Innovation Hub UNS. This program provides funding through a grant scheme for selected pre-startups and startups to participate in the **incubation process**, develop startups, and produce marketable prototype products (pre-startups) or establish independent, competitive startups. Pre-startups/startups selected for SEMESTA Bright incubation will receive **a series of business development training** to strengthen the quality of their companies.

<b>Number of</b>	
<b>employees</b>	<b>3,701</b>
<b>academic staff</b>	<b>1,856</b>
<b>academic staff by subject area: STEM</b>	<b>887</b>
<b>academic staff by subject area: Medicine</b>	<b>361</b>
<b>academic staff by subject area: Arts &amp; Humanities / Social sciences</b>	<b>608</b>

**Research income from industry and commerce: Total (IDR)**

**586,457,026,675**

**by subject area: STEM (IDR)**

**182,946,758,704**

**by subject area: Medicine (IDR)**

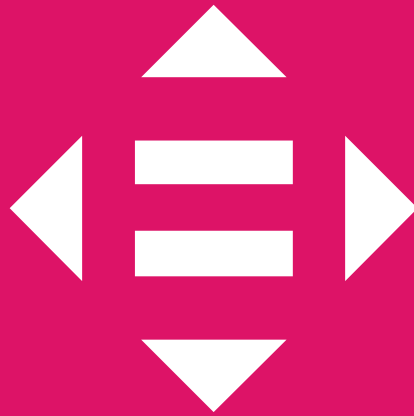
**83,272,602,144**

**by subject area: Arts & Humanities/Social sciences (IDR)**

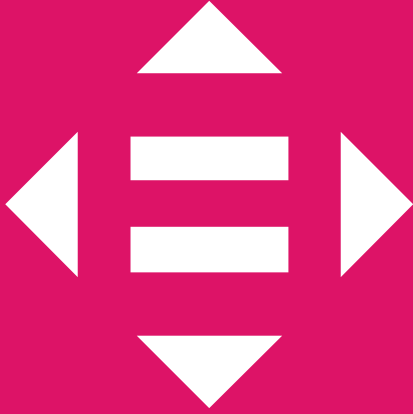
**320,237,665,826**



## 10 REDUCED INEQUALITIES



# 10 REDUCED INEQUALITIES



“Equality needs to underpin every aspect of sustainability if the objectives of the SDGs are to be met. Although SDG 5 explores this through the prism of gender, SDG 10 takes a broader look at the intersectionality of disadvantage. This disadvantage can be felt through all of the other key issues raised by the SDGs – disadvantaged groups are both more likely to be unable to take advantage of progress and to suffer from the effects of climate change.”


## -THE Impact Rankings

“

**0.74**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**229**

publication



10 REDUCED INEQUALITIES



# REDUCE INEQUALITY WITHIN AND AMONG COUNTRIES

## 1 Learning Innovation Competition for Students with Disabilities



The Center for Disability Studies, Institute for Research and Community Service, Sebelas Maret University (PSD LPPM UNS) has received **the 1st Best Implementing Higher Education Award in the Learning Innovation Competition for Students with Disabilities**, Learning Innovation and Assistive Technology Assistance Program for Students with Special Needs in Higher Education in 2023.

## 2 The Commitment to Accessible Facilities for Individuals with Disabilities



### The number of students with disabilities

visual disabilities	10	
hearing disabilities	40	
physical disabilities	12	

62

Universitas Sebelas Maret has committed to be a **disability-friendly campus**. Universitas Sebelas Maret recognizes that access to education and full participation in campus life should be available to everyone, regardless of physical or cognitive abilities. Through **continuous improvements** to campus facilities, Universitas Sebelas Maret ensures that **students and visitors with disabilities can thrive in an environment that meets their diverse needs**.



# SUSTAINABILITY REPORT

## 11 SUSTAINABLE CITIES AND COMMUNITIES



“Cities and communities must themselves be sustainable. More and more of the world’s population lives in urban centres, and this is often the home of our universities too. Cities can be places of great innovation and opportunity, but they can also be home to intense poverty and inequality. The interaction between universities and their communities, urban and rural, needs to be a positive one that can last for generations.”

**-THE Impact Rankings**

# 11 SUSTAINABLE CITIES AND COMMUNITIES



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**0.81**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)

**392**

publication

University expenditure (IDR)

**1,519,694,854,206**

University expenditure on arts and heritage (IDR)

**13,862,451,000**



# 11 SUSTAINABLE CITIES AND COMMUNITIES



## MAKE CITIES INCLUSIVE, SAFE, RESILIENT, AND SUSTAINABLE

### 1 | Ease of Access to Public Facilities at Universitas Sebelas Maret



Universitas Sebelas Maret, as a center of knowledge in Surakarta, plays a significant role in **realizing Solo as a sustainable city**, both in terms of urban planning and its community. One of the concrete steps taken is the **provision of various easily accessible facilities** for the public. These public facilities include a sports hall (GOR), a lake, a jogging track, a medical center, a library, and places of worship.



### 2 | Garba Wira Bhuana Invites Visitors to Try Canoeing and Flying Fox at UNS Lake

The Garba Wira Bhuana Student Activity Unit (UKM) at Universitas Sebelas Maret held a UKM introduction event at UNS Lake. **This event featured various activities** such as canoeing, flying fox, rappelling, single rope techniques, and boating. In addition to these sports, the UKM, which focuses on outdoor activities, showcased various equipment used in nature-loving activities such as forest and mountain exploration, cave trekking, rock climbing, and rafting.



Attendees could enjoy **paddling around** the lake using canoes and boats, crossing the lake via the **flying fox**, and trying out **rappelling activities**.





# MAKE CITIES INCLUSIVE, SAFE, RESILIENT, AND SUSTAINABLE

## 3 | Ease of Access to Public Facilities at Universitas Sebelas Maret

The Universitas Sebelas Maret Medical Centre is **supported by doctors and professional medical staff who also serve as teaching staff in the Faculty of Medicine**. The Medical Centre consists of four divisions: General Health, Dentistry, Eye Care, and Ear, Nose, and Throat (ENT).

The Medical Centre not only serves the academic community of UNS but also **provides health check-ups for the surrounding residents as part of its commitment to community service**. In addition to being a healthcare service center, the Medical Centre also **supports the teaching and learning activities** for undergraduate students in the Faculty of Medicine and postgraduate students in Family Medicine.



## 4 | Dormitory for UNS Students



One of the **facilities available for students at Universitas Sebelas Maret is the UNS Campus Dormitory**. Located in Ngogresan, Jebres, Surakarta, this dormitory comprises four main buildings: A, B, C, and D. There are several common areas that residents can use, including a living room/lobby, a cafeteria, and meeting rooms.

For sleeping accommodations, there are two types of rooms: single (for one person) and sharing (for two people). Each room is equipped with a bed, study desk, chair, and wardrobe. The presence of this student dormitory is **expected to provide students with comfortable housing at an affordable price, enabling students who live far away to study comfortably**.



# SUSTAINABILITY REPORT

## 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



# 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



“Much of the world’s economy is based around producing things for consumption. This drives the engine of industry. If we want the world to develop sustainably, we need to understand how to be more responsible at both ends of this cycle. This means promoting resource and energy efficiency, having a sustainable infrastructure, and providing access to basic services for all.”

## -THE Impact Rankings

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**3.01**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**507**

publication



**12 RESPONSIBLE CONSUMPTION AND PRODUCTION**



# ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

## 1 Waste in Check: From Trash Can to Data

As part of its commitment to reducing waste-related issues, Universitas Sebelas Maret measures the amount of waste generated within the university environment through **waste tracking**.

Universitas Sebelas Maret conducts **comprehensive and documented waste tracking**, ensuring accurate measurement and monitoring. Through this effort, Universitas Sebelas Maret strives to precisely measure the environmental impact of its operational activities and monitor waste management efforts. A data-driven approach through waste tracking helps Universitas Sebelas Maret **identify areas that need improvement** and **implement targeted waste reduction strategies**.



## 2 Rethinking Waste: Way to Manage Waste

The Faculty of Engineering (FT) at Universitas Sebelas Maret (UNS) initiated a collaboration by handing over used battery waste to the D-3 Chemical Engineering program at UNS's Vocational Engineering program at UNS's Vocational School. **This partnership highlights recycling efforts**, with students actively participating in processing hazardous materials as part of their academic work. The collaboration aligns with UNS's Green Campus vision, **focusing on zero waste strategies** and reusing battery waste. It also integrates recycling into student projects and practical applications, supporting both environmental sustainability and academic innovation.



TOTAL WASTE

93.63 ton/year



97.65 ton/year



174.4 ton/year



RECYCLED

41.06 ton/year



83 ton/year



136.93 ton/year



12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



# ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

3

## Empowering Local Communities to Help Solve Plastic Waste Through Education and Recycling Solutions

The Research Group (RG) Vocational and Mechanical Engineering Education (VMEE) team from the Mechanical Engineering Education Department at Universitas Sebelas Maret organized a **community service activity** with the theme "Empowering Local Communities to Help Solve Plastic Waste Through Education and Recycling Solutions" as part of the UNS 2023 International Community Partnership Program (PKMI).



The partners in this community service activity are **Sekolah Alam Solo Raya**, located in Juwiring, Klaten, and Seamonkey Project, a non-governmental organization (NGO) from **Kuala Lumpur, Malaysia**.

In this activity, the RG VMEE team collaborated with the Seamonkey Project to develop a small-scale recycling machine to be used as an educational tool for plastic waste processing at Sekolah Alam Solo Raya on 23-24 June 2023.





# SUSTAINABILITY REPORT

## 13 CLIMATE ACTION



“Climate change is a crisis that will affect every part of society, and every country. Universities need to be at the forefront of action to reduce the impact of climate change, especially amongst the poorest who will be the most affected.”

**-THE Impact Rankings**

# 13 CLIMATE ACTION



“ ”

**1**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**383**

publication



**13 CLIMATE ACTION**



# TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACT

**1 | The Commitment to Reduce CO2 Emission**



Universitas Sebelas Maret is committed to support the Indonesian government's program in **reducing CO2 emissions** to a maximum **Net Zero Emission in 2060**. Some of the real steps taken by Universitas Sebelas Maret are having an **emission-free day** once a month, using **energy-saving electrical equipment**, using **renewable energy** resources, using **environmentally friendly transportation** on the campus, building **green buildings**, a UNS waste bank, and having a **lithium battery charging station**, and other activities.



**2 | Disaster Management and Climate Change**

The Vocational School of Universitas Sebelas Maret is collaborating with the Directorate General of Horticulture, Ministry of Agriculture, BRIN, BMKG, and the Geospatial Information Agency to carry out applied **research collaboration** for **adaptation and anticipation of the impact of climate change** on strategic horticultural commodities. The downstreaming and dissemination of applied research activities was carried out in South Jakarta on Tuesday 15 August 2023. The downstream activities and dissemination of research results include the **socialization of research results** and development of the **ewssipantara.id** software. This application has a **flood and drought prediction** feature based on predicted rainfall data from BMKG. "The prediction data is updated every month. From the rainfall predictions, recommendations for optimal planting schedules for chili and onion commodities are also developed using an **Artificial Intelligence algorithm**."





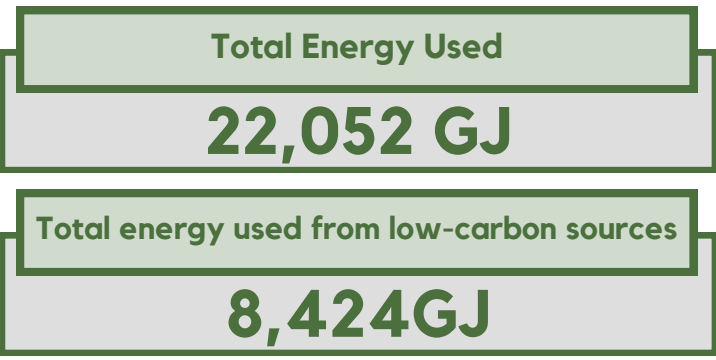
### 3 | Climate Change Camp



Research Group (RG) Agricultural Development Based on Local Land Characteristics Soil Science Study Program of Faculty of Agriculture Unisersitas Sebelas Maret held a **Climate Change Camp** for high school/equivalent students in Solo area. This activity is in collaboration with SMK Negeri 2 Karanganyar with the main agenda of **providing climate change material**. The students also saw a **demonstration of climate change educational props**. The students were given exposure to material and props. Some of the props shown were Green House Effect Simulator, Elklamp, Ecoprint Batik Cap, Point of Green, and Aquasos. This activity aims **to increase understanding and awareness of the younger generation regarding climate change adaptation and mitigation**. So it is hoped that in the future the younger generation can spread this awareness to the people around them. They are also expected to understand what actions to take, especially in everyday life.

### 4 | Disaster Management and Climate Change

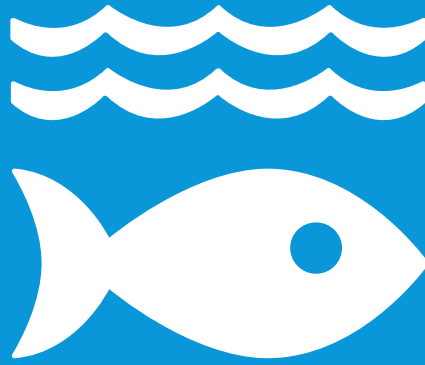
Universitas Sebelas Maret through Student Creativity Program (PKM) Entrepreneurship Team created an **educational disaster mitigation game** for children. The Fumi Card or Fun Mitigation Card is a student innovation product designed **as a learning companion for children** and will provide them with insight into **disaster mitigation**. This product has also been integrated with the inaRISK website which is managed by BNPB. This integration is an effort **to introduce a website that can be a source of information regarding disaster vulnerability in each region**.



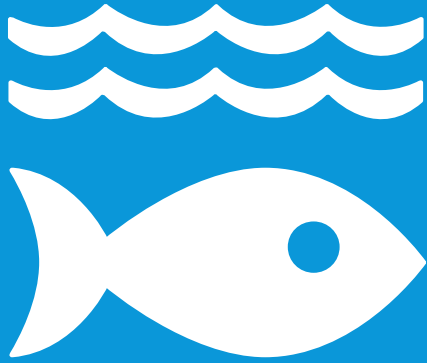
# SUSTAINABILITY REPORT



## 14 LIFE BELOW WATER



# 14 LIFE BELOW WATER



“The oceans, and the rivers and watersheds that link to them, are the largest part of our ecosystem. 40% of the world’s population lives within 100km of the coast, and we all rely – directly or indirectly – on the sea.”


## -THE Impact Rankings

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**1.88**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)

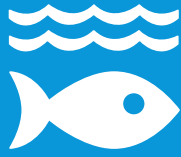


**77**

publication



14 LIFE BELOW WATER



# CONSERVE AND SUSTAINABILITY USE THE OCEANS, SEAS, AND MARINE RESOURCES FOR SUSTAINABILITY DEVELOPMENT

## 1 | Focus Group Discussion for River Management

The Faculty of Engineering (FT) at Universitas Sebelas Maret held a Focus Group Discussion (FGD) with the **Bengawan Solo River Basin Authority (BBWS)** and River Care Communities (KPS) on August 28, 2023. The event aimed to **address river management challenges through collaboration**. Various community groups participated, including disaster preparedness teams and river care organizations. The need for multidisciplinary collaboration was emphasized, involving not only civil engineering but also chemical, electrical engineering, and environmental law, **to manage water issues**.



## 2 | Collaboration to Strengthen River Water Resource Management

Universitas Sebelas Maret and The Bengawan Solo River Basin Authority (BBWSBS) formalized **their collaboration through a joint agreement** signed on November 3, 2023, at the BBWSBS office in Pabelan, Sukoharjo. This partnership, involving the UNS Faculty of Engineering, focuses on **education, research, community service, and water resource management** within the Bengawan Solo River Basin. **The agreement will serve as a guideline** for implementing education, research, community service, and water resource management, while also **improving the capacity and competence of human resources**.



# SUSTAINABILITY REPORT



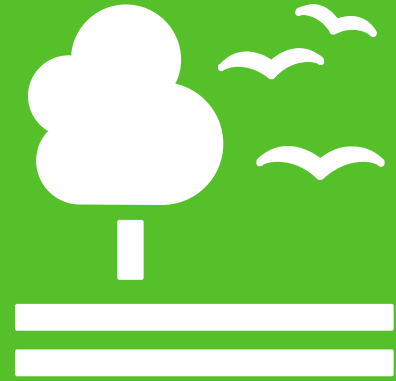
## 15 LIFE ON LAND



“Life on land is a precious resource – we need to ensure that it is passed on to future generations, at a time when loss of biodiversity is an increasing concern. Different universities will have responsibility for very different landscapes and the life within, but all have a responsibility as stewards of their environment.”

**-THE Impact Rankings**

**15 LIFE ON LAND**



“  
**0.67**  
 Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**241**  
 publication



15 LIFE ON LAND



# SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

## 1 Sustainable Agriculture as a Solution for Land Conservation

Students of the Community Service Program (KKN) of Universitas Sebelas Maret Group 95 held **an event to empower farmers** from Sringin Village to become organic farmers. The activity to empower farmers from Sringin Village to become organic farmers was attended by 20 farmers consisting of the Head of the Farmer Group and representatives of the Farmer Group Association (Gapoktan). The purpose of this activity is to help make **the principle of sustainable agriculture** a success, where in addition to getting **abundant results**, it also maintains **good environmental condition**. This activity was continued with the practice of making Liquid Organic Fertilizer (POC) and Pesnab.

The Student Executive Board (BEM) of the Faculty of Agriculture of Universitas Sebelas Maret through the Student Organization Capacity Building Program with the organic farming conversion program has designated Glagahwangi Village as the target for **organic farming assistance**. The activity involved **38 farmers** who will be assisted in implementing organic farming conversion. The team will carry out further activities related to **organic farming conversion assistance** and the **implementation of smart farming** in order to make farming businesses more efficient and thus improve farmers' welfare.

Students of the Faculty of Agriculture of Universitas Sebelas Maret realize **sustainable agriculture** through training in making Liquid Organic Fertilizer in Sanggang Village, Sukoharjo. This activity was initiated by students of the Agricultural Extension and Communication Study Program (PKP). This training is part of the Independent Learning Independent Campus (MBKM) Research and Study program on millennial farmers. Around **30 residents of Sanggang Village** participated in this training. This innovation is expected as an **alternative solution** to the decreasing chemical fertilizer subsidies and can **improve soil quality** so as to realize **a sustainable agricultural system**.



15 LIFE ON LAND



# SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

## 2 Tree Adoption Program to Preserve Biodiversity



The Technical Implementation Unit of Forestry Education and Training of Universitas Sebelas Maret held a soft launch of tree adoption. Tree adoption is an activity in which **someone becomes a tree caretaker** to care for and maintain trees with a sense of responsibility, namely by contributing funds for tree care. Tree adoption can be done for rare plants and plants that are already standing. The benefits and advantages of tree adoption are **restoring forests and critical land, increasing awareness and encouraging the public to pay more attention** to the natural environment, **supporting non-timber forest products**, and **improving the welfare** of the community around the observation area.

## 3 Vertical Garden Innovation to Improve Environmental Quality

The Faculty of Mathematics and Natural Sciences (FMIPA) of Sebelas Maret University created **a vertical garden**. The creation of this garden involved the academic community of FMIPA UNS. The FMIPA vertical garden is located on the exit wall, right next to building B, which **consists of 1,738 plants**. The details of the existing plants are 543 red purslane plants, 379 adam hawa plants, 396 kencuran plants and 420 legestrum plants. The creation of a vertical garden **allows buildings with limited land to still have a green area** that functions to **improve environmental quality** because the plants in the vertical garden are able to absorb pollutants and improve air quality.





# SUSTAINABILITY REPORT

## 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



# 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



“Peace and Justice go hand in hand – and indeed are vital for equity between people and countries. Supporting this we need our institutions to be strong enough to maintain a focus on delivering the SDGs. This can range from individual justice – eradicating modern slavery and people trafficking – to ensuring that our countries have the evidence base needed to react appropriately to crises.”


**-THE Impact Rankings**

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**1.34**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**224**

publication



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



**PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS**

**1 | Towards a Culture of Integrity: Leading with Integrity Zones**



The establishment of integrity zones is not merely a ceremonial or formal event, but rather a **driving force** for us to make **swift and precise changes**. Additionally, Univeritas Sebela Mareet strives to **improve governance systems** by starting with the assistance in completing evaluation worksheets for each integrity zone team within Univeritas Sebelas Maret. This initiative is expected to create a clean and corruption-free work environment.

The realization of an **integrity-driven campus** is a strategic step toward accelerating the achievement of higher education goals, as corrupt practices will hinder the objectives of the programs being implemented. Furthermore, it is stated that bureaucratic reform is a planned **transformation in processes** supported by organizational leadership to change the bureaucratic system, **alter relationships** within the bureaucracy itself, and **reshape the relationship** between the bureaucracy and the public receiving services.

**Number of**

**Graduates**

**6,050**



**Graduates from law and enforcement related courses**

**766**



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



**PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS**

**2** Competency Training for Wonogiri School Principals



**Technical Training for Improving School Principals' Competence** was held from July 3 to 5 2023 in Wonogiri as part of the career development for Educators and Educational Personnel in **collaboration** of **The Wonogiri Regency Education and Culture Office** and **Education and Training Organizing Institute of Universitas Sebelas Maret**. The event was attended by **59 elementary and junior high school principals and teachers** from Wonogiri Regency, including Activator Teachers and Prospective Activators who were being prepared to become school principals.



**3** Uncovering Strategic Insights from Solo City's New Logo and Its Brand Equity



In line with the adoption of **Solo City's new logo**, which was released in February 2023, the D3 Visual Communication Design Program (DKV) at Universitas Sebelas Maret

Vocational School conducted research on **the impact of rebranding the new logo** from the perspective of Brand Equity.



The Brand Equity analysis of Solo City's new logo **provides valuable insights** for stakeholders, enabling them to make **better strategic decisions** in infrastructure development, tourism promotion, economic investment, and overall city management.



## 17 PARTNERSHIPS FOR THE GOALS



“Sustainable development is the responsibility of every part of society, across the world. It cannot be achieved without linkages, across the goals, but also between institutions, governments, companies, NGOs, and people.”

**-THE Impact Rankings**

# 17 PARTNERSHIPS FOR THE GOALS



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**2.27**

Citation Impact

RESEARCH IN NUMBERS (2016-2023)



**2,110**

publication



**17 PARTNERSHIPS FOR THE GOALS**



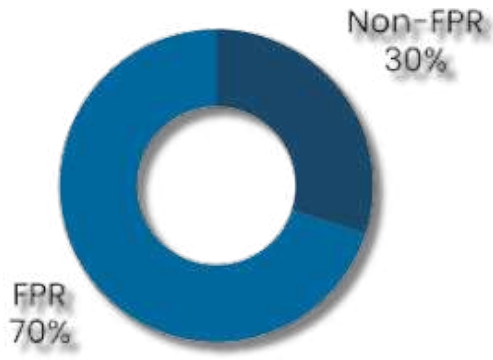
**IMPLEMENTATION AND REVITALIZATION OF GLOBAL PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT**

**1 Partnership in international scientific activities**

Universitas Sebelas Maret’s commitment to fostering **global partnerships** is demonstrated through the organization of **various international seminars**. One of these events focuses on efforts to address climate change. A seminar on linking **climate change and environmental security** was held, featuring speakers from Japan, Morocco, Malaysia, and Indonesia. Discussions about climate change and the environment have evolved from mere discourse to practical actions that must be taken to **mitigate the growing and significant impact** of climate change on all aspects of life. Ensuring **food security** can continue sustainably without disruption, as climate change can be adapted to through diverse local wisdom from various regions around the world.

Additionally, UNS faculty members have engaged in **collaborative research** with universities worldwide. They have also served as honorary **guest lecturers** in fields such as urban planning, including at the University of Liverpool, with privileges similar to the university’s academic staff from 2020 to 2023, along with several other collaborations.

**2 Cross-sector partnerships in Indonesia**



**Cross-sector partnerships** are also carried out by most academics in the Universitas Sebelas Maret Urban and Regional Planning Study Program, namely through their involvement in **Spatial Planning Forums (FPR)** in districts/cities in Indonesia. More than 50% of the teaching staff make up the FPR team. Another partnership was the appointment of UNS investors as economic experts by the **Central Bank**, planning experts in preparing **National and Regional Development Planning** documents and as experts in preparing various environmental studies in various regional governments in Indonesia.





Universitas Sebelas Maret  
**SUSTAINABILITY REPORT**  
**2023**

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