



# 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**."



13 CLIMATE ACTION



# TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACT

## 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**.

