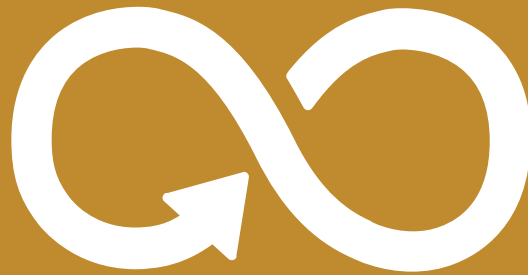




SUSTAINABILITY REPORT

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

“

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.

