



IPB University
— Bogor Indonesia —



SUSTAINABLE
DEVELOPMENT
GOALS



IPB UNIVERSITY
SUSTAINABILITY DEVELOPMENT GOALS

SDGs Report 2023

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SDGs Report 2023

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GLOSSARY



B

BIO-OSD : Bio-Oil Spill Dispersant

I

PPKO : Program Peningkatan Kapasitas Ormawa
(Program for Capacity Building of Student
Organizations)



Ensure sustainable consumption and production patterns

1 Learning Program

Various Educational programs at the university emphasize sustainable consumption and waste management. Courses like **Eco-Conscious Consumption and Sustainable Sanitation** encourage magister students to assess their environmental impact, while **Solid and Hazardous Waste Management** addresses Indonesia's waste issues through practical case studies by undergraduates students. The National Seminar on Sustainable Small and Medium Industries (SMI) promotes local resources and sustainable food production. Additionally, the **IAAS Local Committee** (LC) organizes the Youth Agriculture, Commerce, and Environment (YACE) event, featuring programs that teach waste management and environmental stewardship to youth. These efforts align with SDG 12, empowering students as proactive environmental advocates.

2 Research and Innovation

IPB Lecturer/Researcher always doing research to help to handle waste, as example Prof. Moh. Yani, an Environmental Engineering and Management professor at IPB, has developed bioremediation techniques to clean environments contaminated by hazardous waste from mining, manufacturing, and agriculture.

His work includes isolating pollutant-degrading microbes and creating a bio-oil spill dispersant (**BIO-OSD**). IPB also promotes sustainable practices through programs like Sekolah Sampah Mandiri (**SeSaMa**) for community-based waste management, and **conblocks** made from recycled waste like Styrofoam and plastic. Another initiative, Biocyclo Farming, helps reduce household waste while promoting food security by encouraging communities to grow food in their yards. This approach fosters sustainable waste management, food production, and environmental health.

Research in number

 **614** scholarly output in 2019-2023

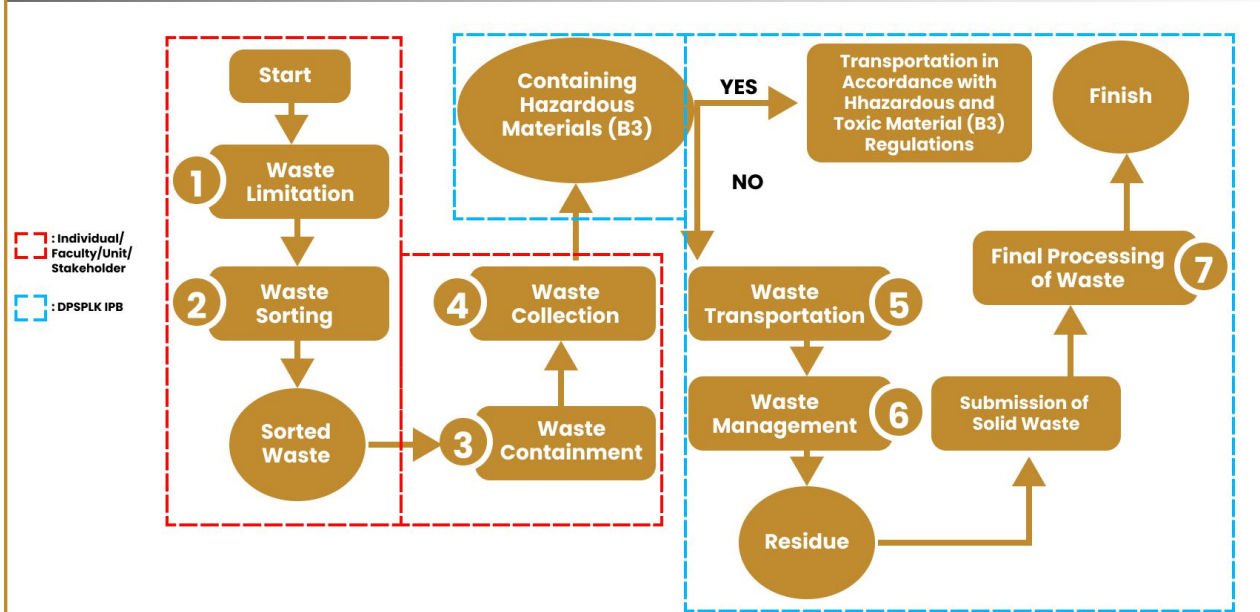
 **602** FWCI in 2019-2023

 **3459** citation count in 2019-2023

5.48% of all Indonesian citation count

5.73% of all Indonesian scholarly output

WASTE MANAGEMENT FLOW DIAGRAM



3 Campus Operation

The Directorate of General Affairs and Infrastructure (**DUI**) has initiated campus programs to tackle waste issues, including creating eco-friendly paving blocks from plastic waste and operating an Eco-Incinerator to process non-economical waste like plastic and paper. This initiative supports responsible consumption and waste reduction through prevention, recycling, and reuse. Apart from Eco-Incinerator there is Kompos House and Bio Digester. Another effort from Directorate of Campus Infrastructure, Facilities, and Environmental Security (DPLSK) to help reduce waste is having the waste management flow for helping to reduce and divide the waste between its category and how to process it became another useful products. To support SDG 12, the Capacity Enhancement Program Team (**PPKO**) held training on making eco-enzymes and eco-bricks to manage waste and promote ecopreneurship and a green economy.

The Department of Resource and Environmental Economics (**ESL**) also organized workshops on eco-friendly products, including eco-enzymes and green detergents, where participants learned from presentations and hands-on practice. IPB also had a partnership with PT Mountrash Avatar Indonesia, this initiative is to **provide waste ATMs** on campus to support better waste management, waste reduction, and recycling efforts. This partnership not only helps to minimize the environmental impact but also educates students and the community about sustainable practices, fostering a culture of environmental responsibility.

4 Community Engagement

Team of students that joined the **KKN-T** demonstrated organic waste management techniques in Taman Sari Village, led by a local agricultural expert who highlighted composting benefits.

They used a recycled incubator for waste sorting. Additionally, five lecturers from the **Renewable Energy Engineering Department** trained the community in Situ Gede Village on transforming used cooking oil into fuel, candles, and soap, addressing both health risks and environmental impacts of improper disposal. The delegation from the **University of British Columbia (UBC)** also visited a village waste processing center, where they explored eco bricks made from plastic waste. In another initiative, **HIMASPER's Ciliwung Care Day 2023** engaged students and community members in waste management education, tree planting, and river cleanup along Ciliwung River, collecting around 1.8 tons of waste. **The Dosen Mengabdikan Inovasi 2023** program further supports IPB's community engagement, promoting sustainable practices and resource use for a circular economy.



HIMAGRETO IPB also led training in Pulosari Village, teaching locals to make briquettes from coffee skin waste as a renewable energy source. Additionally, several student teams in the Student Creativity Program (PKM-PM) are helping communities **turn fish bones into agricultural bone meal in Cibodas Village** and **repurpose bamboo waste into briquettes and planting media in Rumpin Village**, fostering economic, social, and environmental benefits. In Cihara Village, another IPB students team participating in the **KKN-T** have developed a compost innovation using straw waste, aiming to boost agricultural productivity and reduce waste.



5 Student Activities

IPB University students are actively involved in initiatives to help manage the lack of awareness and action toward environmental sustainability and waste management has contributed to pollution and ecosystem damage. In response, **ASARASI**, a community formed by IPB University students and alumni, coordinates activities to educate children on environmental issues and waste management.