



IPB University
— Bogor Indonesia —



IPB UNIVERSITY SUSTAINABILITY DEVELOPMENT GOALS SDGs Report 2024



Book Titles:

SDGs Report 2024

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GLOSSARY

C

CCMRS : Pusat Studi Sumber Daya Pesisir dan Kelautan (Center for Coastal and Marine Resources Studies).

I

IFMOS : Stasiun Pengamatan Perikanan dan Kelautan IPB (IPB Fisheries and Marine Observation Station).

ISSOS : Seminar Internasional Ilmu Kelautan dan Keberlanjutan (International Seminar on Ocean Sciences and Sustainability).

M

MSP : Manajemen Sumber Daya Perairan (Department of Aquatic Resource Management).

N

NDC : Kontribusi yang Ditentukan Secara Nasional (Nationally Determined Contribution).

NIT : Institut Teknologi Nasional (National Institute of Technology).

U

UNESCO : Organisasi Pendidikan, Ilmu Pengetahuan, dan Kebudayaan Perserikatan Bangsa-Bangsa (United Nations Educational, Scientific, and Cultural Organization).



Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

1 Learning Program

IPB University offers a wide range of educational programs designed to deepen students' understanding of the importance of marine ecosystem conservation and sustainable fisheries management through a comprehensive curriculum. These programs include the **Department of Aquaculture Technology and Management**, **Department of Aquatic Resource Management**, **Department of Aquatic Product Technology**, **Department of Capture Fisheries Technology and Management**, and **Department of Marine Science and Technology**. Each program provides courses that equip students with the knowledge and skills to become professionals specializing in playing a vital role in ensuring the sustainability and health of marine environments.



- Aquaculture
- Resource Management and Aquatic Ecosystem Conservation
- Development of Environmentally Friendly and Sustainable Aquatic Products



In addition to academic activities that enhance learning, the Department of Aquatic Resource Management organized a **Summer Course on Tropical Aquatic Biodiversity and Management** was attended by participants from 10 countries : Canada, Madagascar, the Comoros Islands, Timor-Leste, Papua New Guinea, Fiji, the Solomon Islands, and Indonesia.



Furthermore, the **Summer Course on Indonesian Marine Tropical Ecology and Ocean Resilience on Small Islands and Seminar on Ocean Sciences and Sustainability (ISOSS)** organized by the Department of Marine Science and Technology And the **Summer Course on Technical Advancement for Sustainable Fishing Practices** also enriched students' gained the knowledge about technological innovations that played a vital role in supporting sustainable fishing practices.





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2

Research and Innovation

Research and innovation serve as essential drivers in safeguarding marine ecosystems and advancing effective fisheries management. In this regard, the Department of Aquatic Resource Management (MSP) and IPB Fisheries and Marine Observation Station (IFMOS) hosted a visit from The United Nations Educational, Scientific, and Cultural Organization (UNESCO) of Indonesia, initiating a **partnership focused on aquatic conservation and institutional capacity building**.



At the same time, International Research Institute for Maritime, Ocean and Fisheries, IPB University in collaboration with the Ministry of Marine Affairs and Fisheries and other key stakeholders, held a policy dialogue on marine affairs and climate change to **strengthen the integration of the marine sector into Indonesia's Nationally Determined Contribution (NDC) framework**. On the innovation side, IPB researchers introduced a **bait booster technology** that successfully increased fishing yields by up to 236% in pilot tests conducted with local fishermen in Banten Bay. Through the synergy of international collaboration, coherent policy development, and practical technological solutions, IPB continues to reinforce its role in advancing sustainable fisheries and the long-term preservation of marine ecosystems.

Research in Number



863 scholarly output in 2020-2024



113 FWCI in 2020-2024



6320 citation count in 2020-2024



17,78% of all Indonesian citation count



21,27% of all Indonesian scholarly output

3

Campus Operation

IPB University, through the **Center for Coastal and Marine Resources Studies (CCMRS)**, has developed the **Sea Farming facility** as a platform for learning and sustainable marine resource management. In collaboration with the Jakarta Food Security, Marine, and Fisheries Agency, the program promotes the strengthening of maritime culture through marine aquaculture activities.

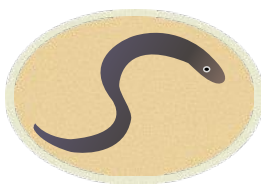




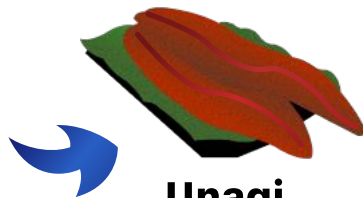
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In addition, students from the Department of Aquatic Resource Management at IPB University conducted a study visit to the CCMRS Sea Farming Center to integrate theoretical knowledge with **hands-on experience in marine cultivation practices**. IPB has a coastal field station in **Pelabuhan Ratu** dedicated to practical training in fish capture.

At this location, IPB collaborates with private companies for the farming and processing of eel into unagi kabayaki products, which are exported to Japan. One of the activities in 2024 includes a training and socialization program with the theme **"Implementation of Technology Innovations in Fish Capture, Farming, Conservation, and Processing of Eels to Support a Sustainable Eel Industry"**.



Eel



Unagi Kabayaki



Community Engagement

Active community participation is a crucial element in supporting the sustainable management of marine resources. On Pramuka Island, **Lecture IPB trained the Smiling Coral Indonesia community** in coral microfragmentation techniques, producing more than 1.000 small coral fragments to aid in reef restoration efforts. Meanwhile, the Center for Coastal and Marine Resources Studies (CCMRS) IPB led a mangrove rehabilitation program in Gili Balu, providing community-based training on mangrove planting using the siTampan method to **strengthen coastal ecosystems in tourism areas**.



In Demak Regency, CCMRS also supported the recognition and **empowerment of fisherwomen** through the Puspita Bahari Foundation, advocating for their social and legal acknowledgment and active involvement in coastal resource management. By engaging local communities in coral restoration, mangrove rehabilitation, and women's empowerment, IPB reinforces a participatory foundation for achieving a sustainable and inclusive marine environment.





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5

Student Activity

Student activities serve as a driving force in supporting the sustainability of marine ecosystems. For instance, 87 students from the Department of Aquatic Resource Management at IPB University planted **500 mangrove seedlings** at the Integrated Mangrove Conservation Center in Tangerang and conducted ecosystem assessments as part of their field research. IPB students also participated in **mangrove rehabilitation** activities alongside students from National Institute of Technology (NIT) Wakayama in the Seribu Islands, fostering cross-cultural learning and collaborative action for coastal ecosystem restoration.



In addition, through the Himiteka IX Expedition, students engaged elementary school children on Buru Island in a **Sea Turtle Conservation Awareness Program** to help protect leatherback turtles, a vulnerable species that nests on Wamlana Beach, along with conducting a coastal clean-up activity to promote environmental stewardship among the younger generation.





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“ Sailing with science. Anchored in sustainability ”



SDGs Report 2024 : Supplementary Report