









This brochure was prepared by the project "Rethinking Plastics – Circular Economy Solutions to Marine Litter", which is funded by the European Union (EU) and the German Federal Ministry for Economic Cooperation and Development (BMZ) and implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and Expertise France (EF). As regards the summary of project results, the contents are the sole responsibility of GIZ and do not necessarily reflect the views of EU and BMZ.

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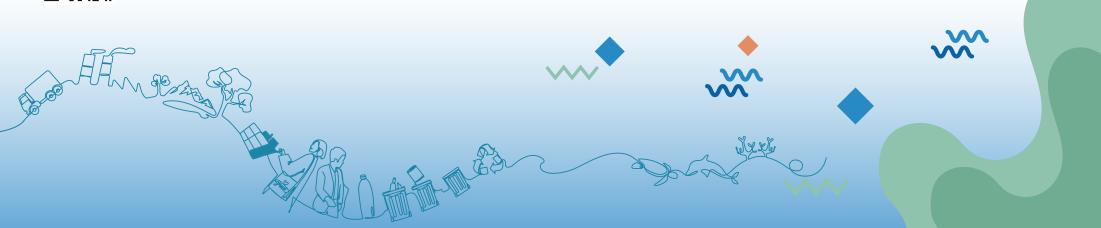
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Rethinking Plastics

- Circular Economy Solutions to Marine Litter

Project Results in Indonesia



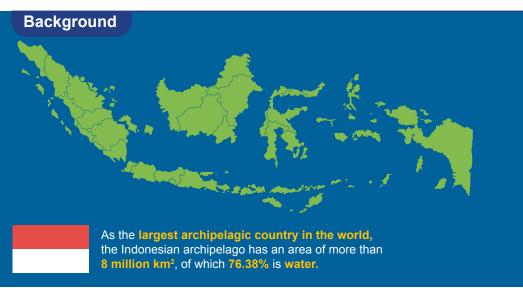




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Although a large part of the nation's economy and livelihoods depend on the sustainability of marine and coastal areas, Indonesia's marine ecosystems continue to be threatened by marine debris due to the rapid increase in single-use packaging and years of ineffective and uncontrolled waste management systems.

Indonesia's Plastic Waste Problem in Numbers

Indonesia is responsible for being one of the biggest contributors to the leakage of plastic waste into the oceans in the world. Every year, the country produces approximately:



Joint Efforts for Indonesia's Circular Economy

Growing concern about marine debris has prompted the Indonesian government to take action, including by issuing:

Government Regulation No. 81 of 2012 concerning Management of Household Waste and the like; and

Presidential Regulation No. 97 of 2017 concerning the National Policy and Strategy for the Management of Household Waste and the like, which aims to reduce waste generation by 30% and improve waste management by 70% by 2025.

The National Action Plan for Marine Litter Handling as stipulated in Presidential Regulation No. 83 of 2018 concerning Marine Litter Handling aims to reduce 70% of marine plastic waste by 2025.



Strengthening cooperation between the EU and Indonesia in the circular economy, plastic waste management, and marine waste reduction provides a common opportunity to collaborate and address a number of issues that are of interest to both parties.

To reduce plastic leakage into the ocean, ambitious steps have been taken by the European Union (EU) through the Circular Economy Action Plan 2020, which expands the management of plastic waste to microplastics as well as biobased and biodegradable plastics.





About Rethinking Plastics

Rethinking Plastics - Circular Economy Solutions to Marine Litter in Indonesia supports the country's transition to a circular economy with a focus on waste prevention and management. The project is funded by the EU and the German Federal Ministry for Economic Cooperation and Development (BMZ) and jointly implemented by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH and Expertise France (EF).



Henriette Faergemann

The EU Delegation to Indonesia and Brunei Darussalam Counselor for the Environment, Climate Action, and ICT

Utilising the lesson learnt of European Union, Rethinking Plastics project facilitates the policy change towards sustainable plastic waste management, sustainable consumption of plastics, and addressing sea-based marine litter; through series of dialogues, studies, public campaign as well pilot project activities.

Project Goal

The Rethinking Plastics - Circular Economy Solutions to Marine Litter project supports the transition to a circular economy for plastics in East and Southeast Asia to reduce the leakage of plastic waste into the ocean and marine debris.

Action Area



(Policy dialogue on the circular economy, plastic production, and management between the EU, regional organizations, and Indonesia



2 Improving the quality of plastic waste management



3 Sustainable consumption and production of plastics



4 Reducing waste from sea-based sources



Increasing public awarenes



Fact Box

Implemented by: Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Commissioned by: European Union (EU) & German Federal Ministry for Economic Cooperation and Development (BMZ)

National Partners:

- The National Development Planning Agency (Bappenas)
- The Ministry of Environment and Forestry (KLHK)
- The Coordinating Ministry for Maritime Affairs and Investment (CMMAI)
- The National Plastic Action Partnership (NPAP)
- Indonesian Packaging Recovery Organization (IPRO)
- Packaging and Recycling Alliance for Indonesia's Sustainable Environment (PRAISE)
- The Indonesian Plastic Recycling Association (ADUPI)
- The National Coordination Team for Marine Debris Handling (TKN PSL)

Duration: May 2019 to October 2022

National Activities







Webinar on Medical Waste Management

- 38 April 2020
- Mational Development Planning Agency (BAPPENAS), Ministry of Environment and Forestry (MoEF) & Ikatan Alumni Teknik Lingkungan Institut Teknologi Bandung (IATL ITB)
- ⊕ bit.lv/rpwebinar medicalwaste

Online Dialogue on Policies and Initiatives for Reducing Single-Use Plastics in Indonesia and Europe

- 15 December 2020
- & Gerakan Indonesia Diet Kantong Plastik (GIDKP)
- ⊕ bit.ly/rpwebinar suppolicies

4th Indonesia Circular Economy Forum (ICEF): "Towards Smart & Sustainable Cities through Circular Economy: Building Resilience During Covid-19 Recovery"

- 21-23 July 2021
- **Management State** Greeneration Foundation Indonesia
- # indonesiacef.id/id/annual-forum/2021/

Online Dialogue: EPR Implementation Model in Indonesia

- November 2021-January 2022
- & National Plastic Action Partnership (NPAP)

3rd Indonesia Circular Economy Forum (ICEF): "Towards a Sustainable Future through Circular Business Practices."

- 11-12 November 2019
- As Greeneration Foundation Indonesia
- @ indonesiacef.id/id/annual-forum/2019/

Webinar on Extended Producer Responsibility (EPR) for Plastic Waste Management in Indonesia

- 10 June 2020
- APA Center for Southeast Asian Studies (CSEAS) Indonesia
- ⊕ bit.lv/rpwebinar eprforplastic

Online Workshop on Ship & Port Waste Management

- 27 January 2021
- Ma Coordinating Ministry for Maritime Affairs and Investment (CMMAI) & National Plastic Action Partnership (NPAP)
- ⊕ bit.ly/rpwebinar portwaste

EU Climate Diplomacy Week (CDW): Session 5 "Circular Economy & Its Role for Climate Action"

- 12 October 2021
- ABEU Policy and Outreach Partnership (EUPOP), EU SWITCH-Asia SCP Facility









National Activities



National Dialogue on Waste Reduction by Producers

■ 24 May 2022

Ministry of Environment and
Forestry (MoEF)

bit.ly/rpwebinar_nationaldialogue

Art Exhibition, Photo Exhibition and Public Program: "Plasti-city"

6-21 August 2022 KOLEKSI and Kopi Dab

EU Climate Diplomacy Week:

- World Clean Up Day
- Talkshow: Future-Proof Cities: EU - Indonesia Smart & Green Cities Partnerships
- Green Gathering at the Park
- 18 September, 23 September, & 1 October 2022
- & EU Policy and Outreach Partnership (EUPOP)

Talkshow: Strengthening Plastic Recycling Industry Technology and Governance in Support of a Circular Economy

11 April 2022

- Indonesia Plastic Recyclers (IPR) &
 Indonesia Business Council for
 Sustainable Development (IBCSD)

The Bali Beach Clean Up

23 April, 4 June, 27 August 2022 Bring Your Tumbler Be an Eco Warrior

Gerakan Sedekah Sampah Indonesia (GRADASI) Bekasi

 ■ 14 September 2022
 ■ National Coordination Team for Handling Marine Debris

Stakeholder Dialogue and Technical Exchange on Circular Solutions for Indonesia

11 October 2022
PREVENT Waste Alliance

Pilot Projects

The Rethinking Plastics project in Indonesia has supported **7 pilot projects** in several cities that were undertaken to assess or define approaches to improve good practices in the areas of plastic waste management, sustainable plastic consumption and production, and marine debris reduction from sea-based sources.



BINTARI Foundation

Improving the Readiness of recycling groups in the community in Support of the EPR Implementation Program (PILAH-2)





Center for Southeast Asian Studies (CSEAS)

Increasing Local Capacity in Sustainable Waste Management & Extended Producer Responsibility (EPR) for Plastic Packaging





Destructive Fishing Watch (DFW)

The Cleaning of Fishing Ports Program





Greeneration Foundation

Fishing for Litter (FfL) Initiative Eco-Ranger Program





Indonesian Plastic Bag Diet Movement (GIDKP)

Plastic Free Market Program





Making Oceans Plastic Free (MOPF)

Single-use Plastic-Free School Program





Misool Foundation

#PlastikTaraAsik Campaign









BINTARI Foundation

Improving the Readiness of Recycling Groups in the Community to Support the EPR Implementation Program in Semarang (PILAH-2)

Profile

BINTARI Foundation is a national non-governmental organization engaged in environmental protection and sustainable development. Established in 1986 and located in Semarang, BINTARI Foundation strives to be a superior partner in the transformation of resilient and sustainable communities through educational programs for sustainable development, waste management, disaster management, coastal area management, watershed management, and impact management. source of climate change.







Together with Rethinking Plastics, BINTARI Foundation launched the Community Preparedness for Collaborative Waste Management (PILAH-2) project to help address waste management problems. PILAH-2 encourages an increase in the capacity of TPS3R in the city of Semarang which is recommended as an effective model for sorting waste from infrastructure to management point of view while reducing household waste at the upstream level, both leaking into the environment and being wasted in the landfill.

Program Achievements



To increase waste management institutions' capacity in Semarang City, Central Java, the PILAH-2 pilot project has successfully carried out various educational, outreach, and training activities in Mangkang, Kulon, and Sambiroto sub-districts. As an achievement, the project has developed a waste management module at the upstream level for waste management actors in Mangkang Kulon and Sambiroto Villages and facilitated training and technical assistance for 3,151 waste management actors, waste bank operators, and local TPS3R. To support the implementation of EPR, the project has also developed a waste buying and selling application, "AMBILIN", to facilitate TPS3R access to buyers and to involve informal collectors in waste management. As a result of these capacity-building efforts, the waste bank and TPS3R involved in the project have managed to manage 51,132.66 tons of waste and avoid 0.16 tons of plastic and/or glass waste.





Yayasan Bina Karta Lestari (BINTARI)

- JI. Tirto Agung Barat V No. 21, Pedalangan, Banyumanik, Semarang, Central Java 50268
- www.bintari.org info@bintari.org







Center for Southeast Asia Studies (CSEAS)

Increasing Local Capacity in Sustainable Waste Management & Extended Producer Responsibility (EPR) for Plastic Packaging

As the center for Southeast Asian studies in Indonesia, CSEAS focuses on sustainable development issues in ASEAN. CSEAS has three divisions: economics, socio-cultural, political, and strategic. As an independent institution with formal scientific interest, the center provides support for research, conferences, workshops, seminars, as well as various study groups.

Profile

Supported by Rethinking Plastics, CSEAS has implemented a Local Capacity Building project in Sustainable Waste Management & Extended Producer Responsibility (EPR) for Plastic Packaging. This project is carried out through the implementation of various trainings for local leaders; increasing household capacity in sorting waste; providing separators for waste transport vehicles; providing work safety equipment at waste management sites; and providing TPS3R sorting rooms.

Figure 4. Safety equipment for TPS3R Figure 5. Waste collection transport IOCAL CAPACITY BUILDING ON BUSTANABLE WASTE MANAGAMENT AND EXTENSION PROCUES BUSTONSBULTY (FIR) FOR PLASTIC PACKAGING

Program Achievements

During its implementation in Kendalpayak Village, Malang Regency, East Java, the project has embraced as many as 442 heads of family to start sorting organic and inorganic waste from homes, conducting household waste management training with 43 RT/RW heads as well as household waste sorting training, trained and developed institutional capacity building modules in the form of entrepreneurship, workplace safety, and financial training for 23 TPS3R in Malang Regency, and reduced 65.6% of residual waste in Langgeng Jaya TPS3R, contributing to a reduction in waste disposed of at the TPS3R Langgeng Jaya landfill. In addition, this project has contributed to increased productivity in the form of business development in selling compost, maggot, and fish cultivation, as well as increasing the efficiency of working hours of up to one hour at TPS3R Langgeng Jaya.



442 Heads of family

sorting organic and inorganic waste from homes 43 RT/RW AHeads

conducting household waste management training

23 TPS3R

• finance

Institutional Capacity Building

entrepreneurship trainingwork safety

Reduced

65,6% residual waste

in Langgeng Jaya TPS3R

Contribution



enhancement productivity



Contact:

Center for Southeast Asian Studies (CSEAS)

- ◆ Jl. Ir. H. Juanda No. 50, Ciputat, South Tangerang, Banten 15412
- www.cseasindonesia.com
- secretariat@cseasindonesia.org





Destructive Fishing Watch (DFW) Indonesia

Clean Fishing Port Program

Profile

Destructive Fishing Watch (DFW) Indonesia is a national institution in the form of an open alliance/consortium that brings together institutions and individuals who are concerned about destructive fishing (DF) practices or non-environmentally friendly fishing activities (PITRAL), poverty, climate change adaptation, and natural disasters in Indonesia. The spirit of this alliance is built to comprehensively eliminate destructive fishing (DF) practices and promote fishing gear patterns that have an impact on sustainable fisheries.

Through the support of Rethinking Plastics, the Clean Fishery Port Program has been carried out at the Tegalsari Coastal Fishery Port (PPP), Tegal City, Central Java, by organizing various clean action activities in the port area with fishermen, conducting capacity-building training for community groups, and sharing the best lessons and success stories to reach more people.







DFW - INDOI

Program Achievements

During its implementation, the Clean Fishing Port Program has succeeded in covering more than 1,000 fishing vessels, most of which are above 30 GT in size, and empowering a workforce of 14,953 people. Based on data and information from the results of waste management at the Tegalsari Coastal Fishery Port (PPP), the project has also recorded as many as:



2.2 tons of waste per day of which 25% is inorganic waste, and



The potential for leakage of plastic waste into the sea is 10 kg per fishing vessel

To increase public awareness of waste management, DFW also carries out educational action campaigns to encourage changes in waste management behavior. The efforts that have been made include the port clean-up activities involving 300 volunteers from various agencies and collecting (±) 3 tons of total waste in the port area, as well as making murals at fishermen's concentration points. By the end of the project, 11,250 kg of plastic waste (from around 500 fishing vessels) had been collected and recycled.

Contact: Destructive Fishing Watch (DFW) Indonesia

- JI. Kalibata Timur No. 32, Kalibata, Pancoran, South Jakarta, Jakarta Capital Special Region
- ⊕ www.dfw.or.id

 ⋈ info@dfw.or.id





Profile

Greeneration Foundation Indonesia

Fishing for Litter (FfL) Initiative Eco-Ranger Program

The Greeneration Foundation Indonesia, through the EcoRanger Banyuwangi team, has implemented the Fishing for Litter program. The EcoRanger team itself is a local youth team representing residents, consisting of the community and local communities as leaders in protecting the environment and implementing sustainable tourism. The program implemented by the EcoRanger Team emphasizes the aspect of community development in waste management efforts and seeks to pay attention to sustainability aspects both in terms of the environment and the local economy.

The Fishing for Litter (FFL) program, supported by Rethinking Plastics, has been held in Dusun Pancer, Sumberagung Village, Banyuwangi Regency, East Java and aims to increase the capacity of local fishermen in managing marine waste. The activities that have been carried out are carrying out clean actions with fishermen, capacity building for fishermen and the EcoRanger team, as well as improving the infrastructure of the Waste Management Center.







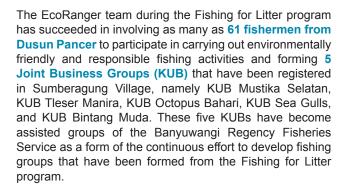


Collected 13,56 ton coastal & marine trash



During project implementation, the EcoRanger team collected as much as 13.56 tons of coastal and marine waste from September 2021 to February 2022

Program Achievements



During project implementation, the EcoRanger team collected as much as 13.56 tons of coastal and marine waste from September 2021 to February 2022, which is managed responsibly at the Waste Management Center (SEKOLA). Based on the results of the initial and final research of the program, it is known that there has been a decrease in the density of coastal waste by 93.3%, from 22 items/m² in August 2021 to 1 item/m² in February 2022.

Contact:

Greeneration Foundation

- Jl. Citamiang No. 6, Sukamaju, Cibeunying Kidul, Bandung City, West Java 40121
- www.greeneration.org









Gerakan Indonesia Diet Kantong Plastik (GIDKP)

Plastic Free Market Program

Profile

The Indonesian Plastic Bag Diet Movement (GIDKP) is a non-profit organization incorporated as an association that has the vision to realize a Plastic Bag-Free Indonesia by inviting people to be wiser in using plastic bags and other single-use plastics and switch to reused bags to save the environment from the dangers of plastic bags.

Together with Rethinking Plastics, GIDKP is working to reduce the use of single-use plastic bags in traditional markets located in Bandung City, West Java, and Banjarmasin, South Kalimantan. The activities that have been carried out include socializing visual communication materials to remind people to bring their own shopping bags; conducting the Plastic Robbery program as an educational effort to reduce single-use plastic, and providing free recycled bags in traditional markets.









Program Achievements

GIDKP, through its Plastic Free Market Program, has succeeded in:

Reducing the consumption of single-use plastics by traders by:



Banjarmasin Bandung 11% Kosambi Market

18% Pekauman Market

19% Cihapit Market 27% Pandu Market

Increase the number of consumers carrying eco-friendly shopping bags by:



Bandung **Banjarmasin**

42% Pekauman Market 13% Kosambi Market

33% Cihapit Market 21% Pandu Market

A total of 639 market traders in Bandung and Banjarmasin have received education and socialization on plastic-free transactions.

Contact:

Gerakan Indonesia **Diet Kantong Plastik (GIDKP)**

- JI. Mimosa IV No.17, RT.6/RW.4, West Pejaten, Pasar Minggu, South Jakarta
- www.dietkantongplastik.info ayo@dietkantongplastik.info









Profile

MAKING OCEANS

Making Oceans Plastic Free (MOPF)

Single-use Plastic Free School Program

Making Oceans Plastic Free (MOPF) is an Indonesia-Germany initiative that seeks to reduce plastic pollution in the oceans and create a single-use plastic free future. This initiative was founded in 2016 with a focus on behavior change and a commitment to developing solutions with the greatest impact possible through an approach that combines research, innovation, and education. MOPF has been awarded the United Nations Environmental Plastic Pollution Innovation Award and cooperated with the Oceans Conservancy, Mercy Corps, and the German Government.

Through the pilot project of the Single-use Plastic Free School Program, effective opportunities to change plastic habits have been identified with environmental education activities for schoolchildren. To achieve sustainable impact and multiplier effects, the project also conducts teacher training. This program uses the principle of early intervention by making school children the target group because of the opportunity to make an impact more easily and effectively. Moreover, the outcomes of these interventions can have a lifelong positive impact.

Figure 16. Poster creation by scholchildren Figure 17. Training for teachers Figure 18. Introduction to plastic reduction habit.

Program Achievements

Held in Malang City, East Java, and Mataram City and West Lombok Regency, West Nusa Tenggara, the results of the Single-use Plastic Free School Program supported by Rethinking Plastics have shown a 39% reduction in single-use plastic used by school children as well as an increase in alternative uses of single-use plastic by 28%. Assuming this positive impact is sustainable on the behavior of school children participating in the program, the cost of preventing 1 kg of plastic waste is estimated to be only 0.05 €.

In the process, the project has also succeeded in:



Reaching out to more than 1,000 school children.



Providing training and benefits from didactic qualifications and guidance from handbooks and educational materials for 45 teachers.



Reaching out to approximately 1,098 people to become beneficiaries of access to better waste management as a result of the project.

The Single-use Plastic Free School Program was also able to:



Increase the awareness substantially by 32% based on the knowledge assessment of plastic pollution risk.



Increase the awareness of plastic pollution prevention strategies by 23%.

Contact:

Making Oceans Plastic Free (MOPF)

- Gang 21A, Jl. Nelayan Canggu, North Kuta, Badung Regency, Bali 80361
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misool

Misool Foundation

#PlastikTaraAsik Campaign

Profile

The Misool Foundation is a registered charity of the Misool resort. This organization has a mission to protect the most biodiverse coral reefs on Earth through the empowerment of local communities and to provide a structure by which they can regain their traditional ownership of coral reefs. The Misool Foundation is now expanding its mission to address pressing conservation issues across Indonesia by developing programs and campaigns focused on protecting threatened species and important marine habitats.





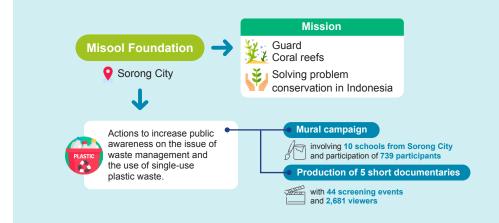


The #PlastikTaraAsik campaign, based in Sorong City, West Papua, has carried out two main actions, namely the creation of a mural and a documentary film with the theme "Inheritance of a Little Heaven Free of Plastic," to raise public awareness about waste management and the use of single-use plastic waste.

Program Achievements

Misool Foundation created a mural with the help of 10 schools in Sorong City and 739 participants through the #PlastikTaraAsik campaign, which was supported by Rethinking Plastics. In the process, the Misool Foundation involved 10 participants to submit mural ideas, of which 4 finalists were selected who were local youths aged 19–25 years to collaborate on murals.

In addition, the #PlastiKTaraAsik campaign also succeeded in producing 5 documentaries after being shortlisted from 53 applicants who submitted their documentary film ideas. The five short documentaries produced have been screened in 44 screening events attended by 2,681 viewers.



Contact:

Misool Foundation

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www.misoolfoundation.org



