

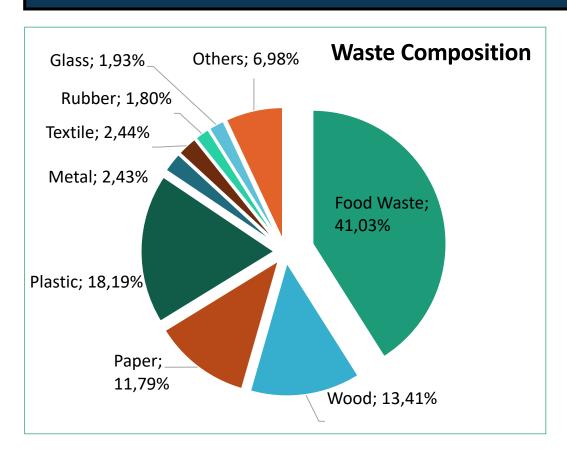


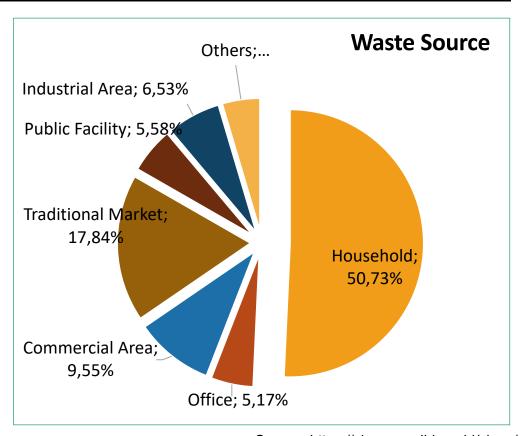


INDONESIA SOLID WASTE MANAGEMENT DATA



Waste Generation (2021) 68.5 million ton





Source: https://sipsn.menlhk.go.id/sipsn/

Potential of Plastic Waste in Indonesia: 18.19 % (2022) or around 12.46 million ton/year (unsorted) Potential of Paper Waste in Indonesia: 11.79% (2022) or around 8.08 million ton/year (unsorted)





INDONESIA'S SOLID WASTE MANAGEMENT REGULATIONS



Law No. 18/2008 on Solid Waste Management

Government Regulation No. 81/2012 on the Management of Household Waste and Waste similar to Household Waste

Government Regulation No. 27/2020 on **Specific Waste**

Presidential Regulation No. 97/2017 on National Policies and Strategies for Managing Household Waste and Waste similar to Household Waste

Presidential Regulation No. 83/2018 on Marine Waste Management that are oriented towards handling plastic waste

Presidential Regulation No. 35/2018 concerning Waste to Electricity Plant

UPSTREAM

- Ministry of Environment ¹ and Forestry (MoEF) Regulation No. P.75/2019 on Waste Reduction by Producer Roadmap
- **Local Government** Regulation on Waste Reduction

- Ministry of Environment and Forestry Regulation No. 14/2021 on Waste Bank
- Roadmap in the context of accelerating the availability of domestic industrial recycling raw materials as a substitute for imported raw materials, especially for plastic and paper
- Circular Letter form Mayor about waste sorting, less-waste lifestyle, eco-office, etc.

- DOWNSTREAM
 Ministry of Public Works Regulation No.3/2013 on Solid Waste Management Infrastructure
- MoEF Regulation No. P.70/2016 on Emission Standard for thermal-based solid waste treatment
- MoEF Regulation No. P.59/2016 on Leachate Quality Standards for Waste Landfill
- MoEF Regulation No. P.10/2018 on Regional Policies and Strategies in Waste Management
- Ministry of Home Affairs Technology No.79/2018 on Regional Public Service Agency (BLUD)
- MoEF Regulation No. P.76/2019 on Adipura
- MoEF No. P.26/2020 on Fly Ash Bottom Ash Handling for thermal-based solid waste treatment
- Ministry of Home Affairs Regulation No. 7/2021 on Solid Waste Management Retribution
- Ministry of Finance Regulation No.26/2021 on State Budget Funding Support for waste management in the regions
- MoEF Regulation No. 6/2022 on National Waste Management Information System (SIPSN)

PUBLIC/COMMUNITY

LOCAL GOVERNMENT



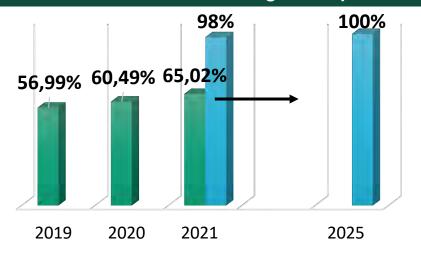
CURRENT SOLID WASTE MANAGEMENT CONDITION IN INDONESIA (1)



PRESIDENTIAL REGULATION NO 97/2017 ON NATIONAL POLICIES AND STRATEGIES FOR MANAGING HOUSEHOLD WASTE AND WASTE SIMILAR TO HOUSEHOLD WASTE

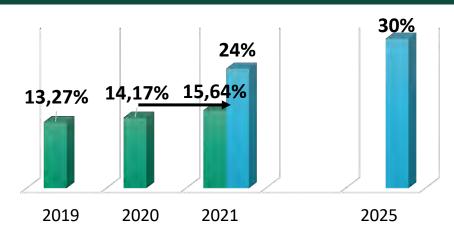
Indicator	2018	2019	2020	2021	2022	2023	2024	2025
Waste generation (mil tons)	66.5	67.1	67.8	68.5	69.2	69.9	70.6	70.8
Waste reduction target (mil tons)	12	13.4	14	16.4	17.99	18.9	19.7	20.9
	(18%)	(20%)	(22%)	(24%)	(26%)	(27%)	(28%)	(30%)
Waste handling target (mil tons)	48.5	50.3	50.8	50.7	50.5	50.3	50.1	49.9
	(73%)	(75%)	(75%)	(74%)	(73%)	(72%)	(71%)	(70%)

National Achievement on Handling Municipal Solid Waste



- Percentage of Managed Waste
- National Target of Managed Waste

National Achievement on Reducing Municipal Solid Waste



- Percentage of Managed Waste Through 3R (Waste Reduction)
- National Target of Managed Waste Through 3R (Waste Reduction)



STRATEGY

CURRENT SOLID WASTE MANAGEMENT CONDITION IN INDONESIA (2)



Baseline

PRESIDENTIAL REGULATION NO. 83/2018 ON MARINE WASTE MANAGEMENT

- National movement to increase stakeholder awareness
- 2. Land-based waste management
- 3. Coast and Sea based waste management
- Funding mechanisms, institutional strengthening of supervision and law enforcement
- 5. Research and development

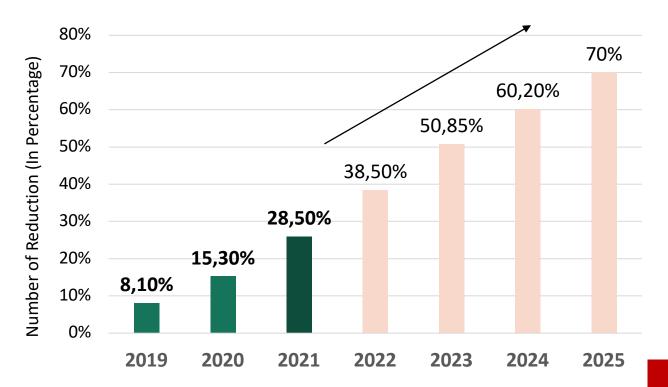
Year	Land-Based Plastic (Ton)	Sea-Based Plastic (Ton)	Total of Plastic Waste in The Sea (Ton)
2018	538,182.77	77,491.86	615,674.63

Plastic waste entering the ocean has decreased by 28.5% from 2018 to 2021

TARGET

Reduce plastic waste in the ocean by 70% by 2025 by involving 18 Ministries and Agencies, 5 strategies - 59 Activities







TARGET, STRATEGY, AND GOAL



2025

2029

2030

Presidential Regulation No.97/2017

- 100% of waste in Indonesia is targeted to be well managed by 2025
- 30% of them through 3R approach

Presidential Regulation No. 83/2018 on **Marine Waste Management that are** oriented towards handling plastic waste 70% of plastic waste is targeted to be reduced by 2025

Ministry of Environment and Forestry Regulation No. P.75/2019 on Roadmap of **Waste Reduction by Producer**

- Producers can reduce their container/packaging waste by 30% by 2029
- Phasing out styrofoam for food packaging, disposable plastic cutlery, and plastic straws by 2029

Nationally Determined Contribution of Indonesia (Waste Sector)

Indonesia sets a target to reduce GHG emissions from waste sector by 40 MTon CO_{2e} with its own efforts and up to 43.5 Mton CO_{2e} with the help from other countries by 2030.

NATIONAL TARGET

Behavioural Change:

- Less-waste lifestyle
- Waste sorting
- Law enforcement

Implementing Extended Producer Responsibility (EPR)

Increasing Recycling Rate by developing a recycling integrated system from upstream to downstream

Solid Waste Management Infrastructures

- Developing and building 3R-based Facilities / Waste Treatment Facility
 - Organic waste treatment facilities
 - Material Recovery Facilities (MRF)
 - Waste-to-electricity plants (12 cities)
 - RDF plants (32 cement factories and 52 coal-fired power plants)
- Optimizing existing facility

Optimizing national waste data management

- Developing national data platform
- Improving data quantity and quality





Reduce Waste to Landfill



Circular Economy



Sustainable Development



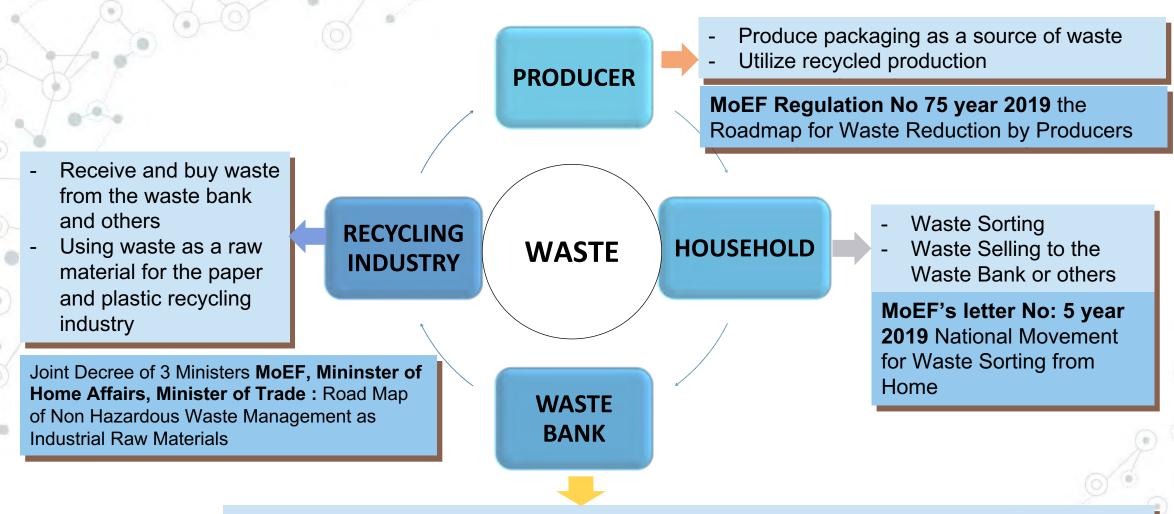
Net Zero Emission

GOAL



THE CONCEPT OF CIRCULAR ECONOMY IN WASTE MANAGEMENT





- Receive and buy waste from the community
- Classify waste according to type
- Educating the public about the value of waste by recording the receipt and sale of waste

MoEF Regulation No.14 year 2021 regulation for Waste Management at the Waste Bank





BUSINESS ENTITY





Implementation of EPR:

15 Business Entities

Total Waste Reduction:

1.145,5 ton

Roadmap technical assistance 353 **Business Entities**

COMMUNITY (WASTE BANK)

Number of Waste Banks

14.457 units



Number of Customers:

403.197 customer



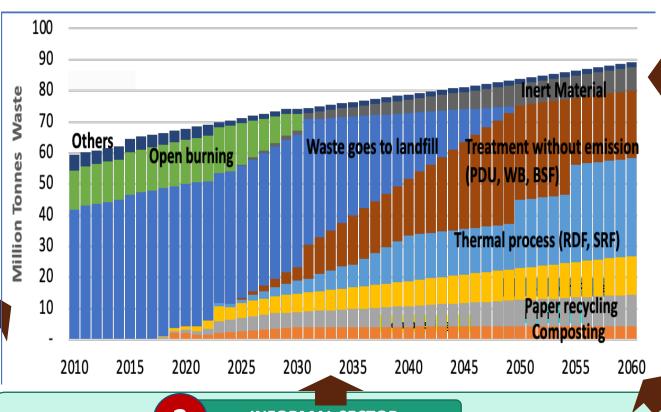
Total Waste Managed:

460.554,46 tons/year



Economic Value:

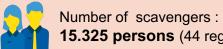
Rp. 5,1 billions



3 **SCAVENGER**

INFORMAL SECTOR

COLLECTOR



15.325 persons (44 regencies/ cities)



Average amount of managed waste: 10 - 20 kg / day / person



Average income per person: Rp. 2-5 million/month



Average amount of managed waste per collector: 200-700 kg/day



Average income per collector:

Rp. 30-60 million / month

INDUSTRIALIZATION

Total waste managed from 36 TPST: 27.886 tons/year

Waste managed from 75 composting

facilities: 16.105 tons/year

Waste managed from 22 recycling facilities (PDU): 18.689 tons/ year

Total waste managed from 282

TPS3R: 87.574 tons/year

Total waste managed from 1 RDF:

50.804 ton

Total waste managed from 2 ITF

6.036 ton

Sumber: SIPSN, 2022

SOCIAL ENTREPRENEUR



Total: 176 Partners



Average amount of managed waste per partner: 50 tons/month



One of the partner has a turnover: Rp. 2 Billion/Month



Let's Walk The Talk, Leads by Example! Reduce, Reuse, Recycle, Start from yourself, Start from now!

THANK YOU

DIRECTORATE OF SOLID WASTE REDUCTION Directorate General of Solid Waste, Hazardous Waste and Hazardous Substances Management

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