

Municipal Solid Waste Management Law, Portrait of Landfill

By

Mohammad Helmy
Indonesia Solid Waste Association
(InSWA)

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mohammadhelmy5@gmail.com

MSW MANAGEMENT LAW

background

- ◇ NO PARTICULAR NATIONAL LAW OF MSW MANAGEMENT (before 2008)
- ◇ POOR of O/M BUDGET (local government's budget)
- ◇ LACK OF AWARENESS
- TRADITIONAL WAY STILL BE APPLIED IN MSW MANAGEMENT : **COLLECT – TRANSFER – DUMPING**
 - END OF PIPE
 - NIMBY
 - BAD MANAGEMENT IN FINAL DISPOSAL SITE
 - NO RECYCLING ACTIVITIES
 - Garbage's TRAGEDY



MSW Statistic



Waste generating

Transfer (46.09%) to final disposal
(TPA) both legal & illegal



Pile (7.54%)

process (11,61%) : composting &
other recycling activities

Burn (25.49%)

Others (9.27 %)

- river/canal
- street
- park
- etc



Source : National Statistic Agency, 2010

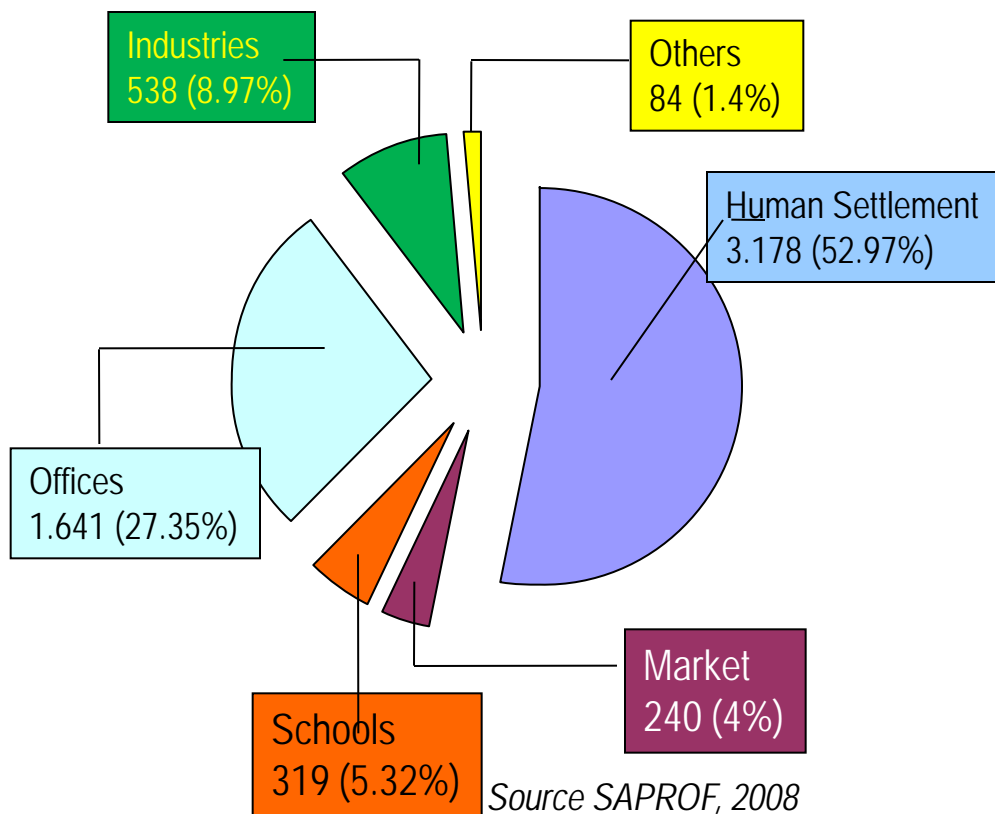
Background





MSW's source and component composition in DKI Jakarta

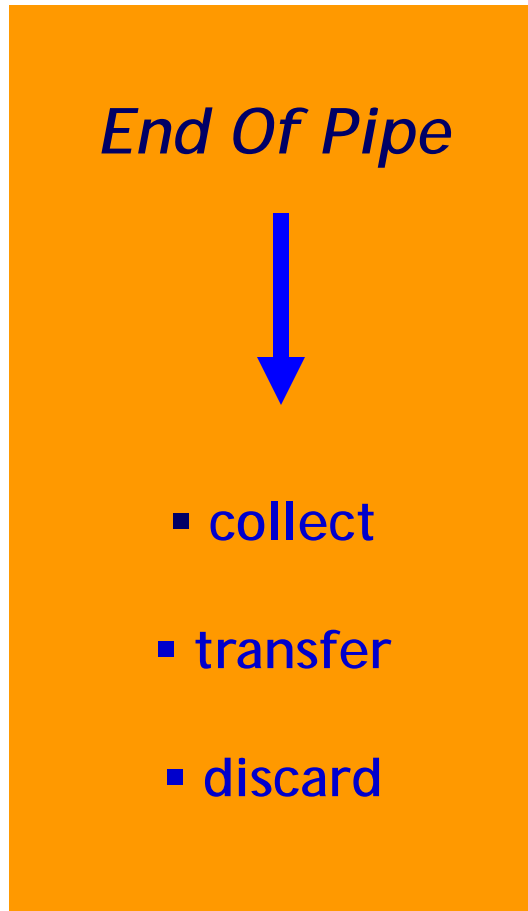
Source composition



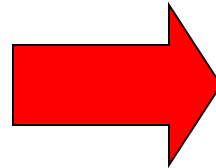
Component composition :

1	Compost-able	:	55,37%
2	Non compost able	:	44,63%
2.1	paper	:	20,57%
2.2	Plastic	:	13,25%
2.3	wood	:	0,07%
2.4	Fabric/textile	:	0,61%
2.5	Rubber/	:	0,19%
2.6	Metal	:	1,06%
2.7	Glass	:	1,91%
2.8	Demolotion	:	0,81%
2.9	Hazardous Material	:	1,52%
2.10	Sand and other	:	4,65%

MSW Management Law

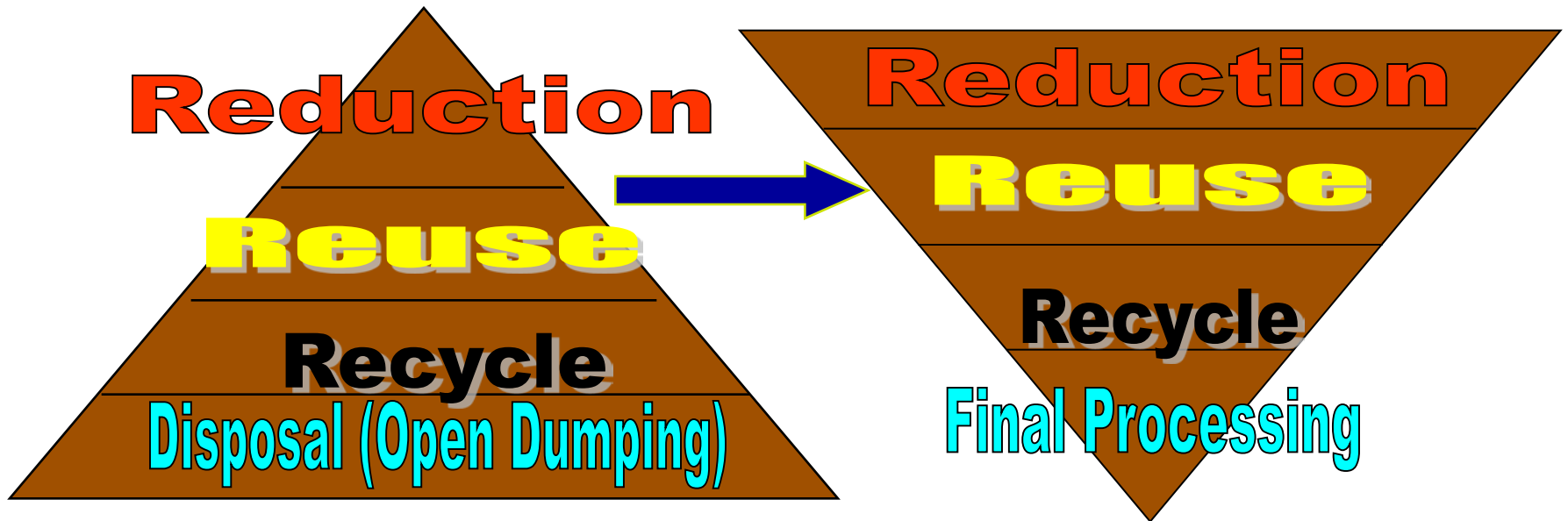


Business as Usual/
Current Situation



New Life Style

*to **CHANGE MINDSET***



MSW Management Law - 2008

Two main activities :

- Minimizing and Handling

Minimizing

- Reduce at source;
- Reuse ;
- Resources Recycling → EPR (Extended Producer Responsibility)

Handling :

- Segregating ;
- Collecting ;
- Transferring ;
- Processing ;
- Final treatment.



Import is prohibited

OBJECTIVE :

To enhance community health and environment quality, and to utilize msw as new resources/circulated Waste.

MSW Management Law

- Task and Authorities of Government, Provincial Government and Regency/City Government;
- Rights and Obligations;
- Licensing;
- Waste Management Activities;
 - minimizing
 - handling
 - specific waste management

MSW Management Law

- Cooperation and Partnership;
- Prohibition;
- Supervision;
- Administrative Sanction
- Dispute Resolution;
- Criminal Sanction.

MSW Management Law

- **Article 44**

- Local governments **shall close the final** processing site of waste that uses **open dumping system** in no longer than 5 (five) years since this law is enactment.

- **Article 45**

- Managers of housing compounds, apartments, supermarkets, shopping and trade centers and port areas that have not owned waste screening facilities at the moment this law is enactment, **shall build or provide waste screening facilities** in within no longer than 1 (one) year.

Opportunity in Indonesia to Develop Landfill Gas Project

- City category :
 - Metropolitan, $\geq 1,000,000$ inhabitants (14 cities)
 - Big, $\geq 500,000 - 1,000,000$ inhabitants (14 cities)
 - Middle, $\geq 100,000 - 500,000$ inhabitants
 - Small, $\leq 100,000$ inhabitants
- Now \rightarrow 98 % of the cities have no sanitary landfill and due to any constraints **open dumping** system still be applied and only 6 Cities have been developing landfill gas project.

Thank you

m_helmy@menlh.go.id

+62 811 179 277



Segregation drum