POLICIES AND PRACTICES FOR PLASTIC WASTE MANAGEMENT IN THAILAND



Session 3: Hazardous substances, plastic waste and micro-pollutants of waters and their effects on nature



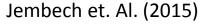
Content:

- Status and situation
- Policies
- Practices
- Towards Thailand





From academy research



About 80% of marine plastic debris comes from land-based pollution. It was discharged into the ocean through about 10 main rivers, which are mostly located in Asia. If we reduce the discharged plastic debris about 50% from these rivers, the ocean's plastic waste will be reduced up to 37%.

World situation





Lebreton et. al (2017)

Thailand situation in year 2014





- HASEM SUSTAINABLE DEVELOPMENT DIALOUS BUDDHEST DIALOUS BUDDHEST Exercised
- Proper disposal site 480 sites
- Open Dumping 1,970 sites (mostly in small size municipalities)
 - Deterioration in the environment
 - Health of the population
 - Releasing greenhouse gases.
- Small size municipalities lack funding and capabilities
- Public disillusioned by previous site operation and distrust new waste management projects

Thailand situation 2014-2018



2014	Road Map on Waste and Hazardous Waste Management Approved by the National Council for Peace and Order on the 26 th August 2014	
2016	National Solid Waste Management Master Plan (2016 - 2021) Approved by the cabinet on the 3 rd May 2016	
2016	Action Plan "Thailand Zero Waste" (2016 – 2017) According to the Participatory State Principle	
2017	Action Plan "Clean Province" (2018) According to the Participatory State Principle	ŧ
2018	20-Year Pollution Management Strategy and Pollution Management Plan 2017-2021 Approved by the parliament on the 6 th July 2018	

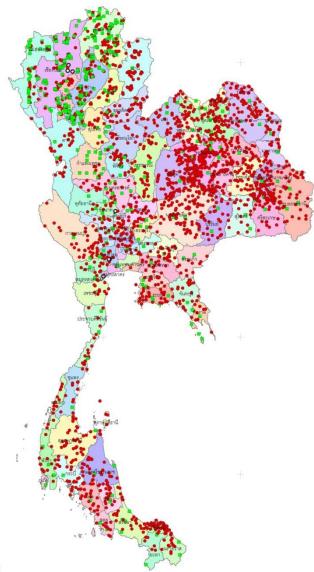
MSW Status in year 2017





MSW Status in year 2017





2,801 Overall waste disposal sites in Thailand

Appropriate management system (12%)	319 sites
appropriate landfill site	287 sites
Incinerator with air pollution treatment system	18 sites
Mixed method	4 sites
Mechanical and biological treatment system (MBT)	18 sites
Improper management system (88%)	2,474 sites
Improper management system (88%) Dumpsite method	2,474 sites 1,730 sites
Dumpsite method	1,730 sites
Dumpsite method in-appropriate landfill system	1,730 sites 16 sites



Plastic waste management @ 2017



Policies



Principle of SWM Roadmap

- Reduced amount of accumulated waste
- Promoted appropriate MSW and Hazardous Waste
- Specific law on SW Management
- Instill National Discipline

National Waste Management Master Plan

- Encourage citizens, including children, and the private sector to reduce waste at the source by following the 3Rs concept (Reduce, Reuse, Recycle)
- Establish proper disposal methods for municipal solid waste and household hazardous waste by using centralized facilities for clusters of municipalities emphasizing waste utilization and waste to energy methods
- All relevant sectors participate in the management of solid and hazardous

waste

Policies



Action plan "Thailand Zero Waste" and "Clean Province"

- Minimizing waste by separation at the source
- Establishing waste management database
- Establishing measures/models to handle the improper disposal wastes and hazardous wastes from communities
- Establishing management measures for infectious wastes and industrial wastes

20-Year Pollution Management Strategy and Pollution Management Plan 2017-2021

- **Strategy 1** Waste prevention and reduction at source
- Strategy 2 Increasing efficiency in waste treatment and pollution control at source
- Strategy 3 Development on waste management system

Practices

Initiatives and Best Practices

Responses and management of marine debris

- Conduct research and assessment of marine debris, plastic and microplastic.
- Organize clean-up activities involving public participation in 23 coastal provinces.
- Implement waste reduction measures in 7 selected pilot areas.
- 4. Establish marine debris database and knowledge portal.



Reduce using plastic in island





clean-up activities



beach



mangrove

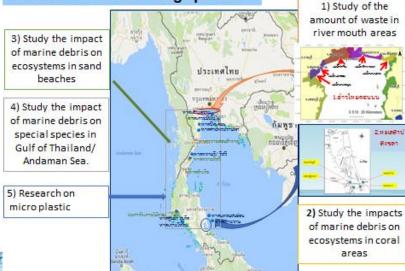


SE

DEVELOPMENT

coral zone

Database and knowledge portal



Practices

No Smoke-free

MOU to solve the problem of cigarette butts littering the country's beaches 24 beaches in 15 provinces engaged in this project, including Bangsan in Chonburi and Pa-Tong on Phuket Island





3R Activities: The Examples

Setting-up junk shop entrepreneurship managerial efficiency for waste management







Zero Waste Action Plan and Civil State: The Nexus Clean City and Happy People Action Plan.

Implementation and action plan under the Civil State approaches

Up-scale public awareness and participation on waste reduction and waste separation according to 3R principle.







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DEVELOPMEN

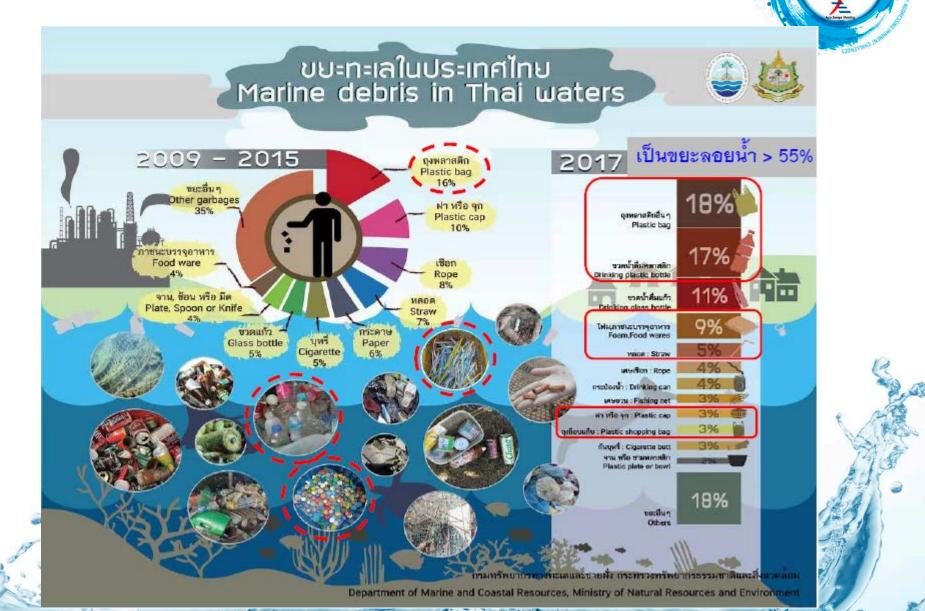


Practices





Marine debris monitoring



ASEM

DEVELOPMEN

Marine debris prevention and collection



ASEM

SUSTAINABLE DEVELOPMENT



Promotion on Reducing Marine Debris





ASEAN Conference in Reducing Marine Debris in ASEAN Region Phuket, Thailand, 22-24 November, 2017



We do good with our heart to reduce environmental damage

Promotion on Reducing Marine Debris

(Cabinet Resolution, 17 July 2018)

- Reduce plastic bags and foam boxes in the governmental offices and also develop the KPI
- Campaign the reduction of plastic bags in fresh markets/ supermarkets
- Ban plastic bags and foam boxes in National Parks/ Zoological Centres
 - Set priority action in 24 coastal provinces





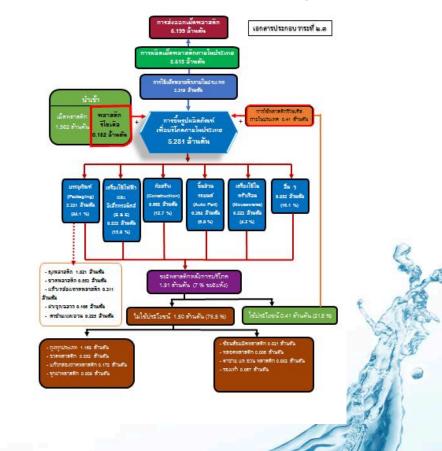
Towards Thailand



Plastic waste management sub-committee under NEB



Plastic material flow analysis



Goal : 1.5 M ton of unmanaged plastic waste





Thank You for Your Attention



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