

Thailand's National Solid Waste Policy and Plan

Mr. Chaiya Boonchit

Director – Planning and Evaluation Division Pollution Control Department Ministry of Natural Resources and Environment



The status of solid waste management in 2022



Resources from Solid Wastes 71,829 Million Baht (2 Bill. USD)

- 3 -



Resources from WEEE : 5,658 Mill. Baht (162 Mill. USD)



Televisions 96,190 tons Value ~ 1,442 mill. BHT



Air Conditioners 96,685 tons Value ~ 2,417 mill. BHT Refrigerators 30,295 tons Value~ 151 mill. BHT



Mobile Phones 3,116 tons Value ~ 203 mill. BHT



Computers 49,909 tons Value~ 998 mill. BHT



Washing Machines 95,453 tons Value~ 477 mill. BHT

Source : The Study of Material flow analysis of WEEE in Thailand



Addressing the impact of greenhouse gases and climate change

- Strengthening awareness in mitigating and adapting to damages caused by the impact of climate change
- Supporting public and private sector investment in environmentally-friendly infrastructure projects
- Promote relevant laws in according with Thailand's international obligations and commitments



Developing an environmental management system within the Circular Economy

- Incorporate technological advancement and innovation into the waste management plans
- Promote public private partnership programs for moving toward Circular Economy

Addressing garbage and waste management in a systematic manner

- Educated the public on how to reduce household and business garbage ; reusing and sorting garbage upstream in order to reduce quantities and costs of urban garbage management
- Promote high-standard waste management facilities such as sorting plants, waste to energy or composting plants.



Action Plan on Solid Waste Management phase 2 (2022 - 2027)













The Cabinet acknowledged the plan on 1 November 2022.



Measure 1

Up stream Waste Management

- Eco Design Environmentally friendly products.
- Extended Producer Responsibility. (EPR)
- Behavior and lifestyle changed.
- Develop a system or model that encourages people to separate waste at sources.

Measure 2

Increase Efficiency on Disposal System

- Promote and upgrade waste disposal sites.
- Encourage the private sector to invest in waste management.
- Strict control on waste disposal operations and including industrial waste disposal operations.
- Determine guidelines for new emerging waste management.

Measure 3

Development of Waste Management Tools

- Development of related laws promoting circular economy, especially EPR law.
- Driving legislation on management of electronic waste.
- Encourage all local governments to issue local ordinances for segregation at sources.
- R&D to support waste management.

Action Plan on Solid Waste Management phase 2 (2022 - 2027)



Circular Economy Implementation by the private sector

Refill shop



Eco-design







Take-back project for plastic packaging and beverage boxes





แผ่นหลังคาที่ผลิตจากกล่องเครื่องดื่มรีไซเคิลเป็นครั้งแรกในประเทศไทย หลังคา 1 แผ่น มีขนาด 1 x 2.40 เมตร และใช้กล่องเครื่องดื่มประมาณ 2,000 กล่องในการผลิต

"โครงการหลังคาเขียวเพื่อมูลนิธิอาสาเพื่อนพึ่ง (ภาฯ) ยามยาก " ของสมเด็จเจ้าฟ้าฯ กรมหลวงราชสาริณีสิริพัชร มหาวัชรราชธิดา









- 10 -

Current Management Technology



Refuse-derived fuel (RDF) 2 sites

Composting 4 sites

Incinerator 3 sites

Waste-to-Energy Technology











Composting Technology









Technology Status and Gap

Urban Municipal Waste

Waste Category	Technology	Status
	Thermal Recovery	0
	Fuel Recovery	0
	Material Recovery	0
Urban Municipal Waste	Sorting	X
	Pulverizing	×
	Composting	0
	Incineration	0
	Collection	0
Formal, Strong	Informal, Weak	🔀 Technology Gap
• Formal but weak	O Informal but Strong	





" Together Possible " ด้าร่วมมือกัน เราทำได้



5 is

0









