Thailand’s Roadmap on Plastic Waste Management and current initiatives on single-use plastic in food delivery and takeaway

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Thailand’s Roadmap on Plastic Waste Management
Within 10 years, Thailand has plastic waste 2 million tons/year or 12% of total waste a generation.

Plastic waste recover 0.5 million tons/year.

1.5 million tons/year of plastic waste disposed by sanitary landfill or waste incinerator and partially accumulate in dumped sites.

Source: Pollution Control Department, 2019
Roadmap’s principle

1. Life Cycle Approach
2. 3R Principle (Reduce Reuse Recycle)
3. Public Private Partnership
4. Concept of Circular Economy
5. Responsible consumption and production
Relevant policies linkage

Sustainable Development Goals (SDGs)

National Strategy 2018 - 2037 (Green Economy + Marine Economy)

National reform plan on natural resources and the environment

The 12th National Economic and Social Development Plan (2017 - 2021)

National waste management master plan (2016 - 2021)
Vision

• Moving Towards Sustainable Plastic Management by Circular Economy

Objective

• to serve as a framework and direction for preventing and solving of plastic waste in the country

Goal

• Related to SDGs, especially Goal 14th Conserve and sustainably use the oceans, seas and marine resources
Thailand Roadmap on Plastic waste management

Thailand’s Roadmap on Plastic Waste Management 2018 – 2030

1. Reduce and stop using single-use plastic targets by replacing with environmental friendly products.
2. 100% of target plastic wastes to Circular Economy.

Target

Stop using in 2019
- Cap seal
- Oxo
- Microbead

Phase 1

2019

Stop using in 2020
- Plastic bag < 36 micron
- Foam food container
- Plastic cup < 100 micron
- Plastic straw
- Monitoring, evaluation and review Roadmap and Action Plan
- Develop recycling plastic waste system through circular economy

Phase 2

2021

- Law enforcement on Plastic Waste Management
- Develop guidelines/requirement standard for environmental friendly plastic products

Phase 3

2022

100% of target plastic wastes to Circular Economy

2023

- Reducing and stop using other single-use plastics

2024

- Establish Subcommittee/Working groups
- Develop Roadmap for Plastic Waste Management 2018 – 2030

2025

- 95 million tons Utilisation

2026

- 2 million tons on 12% of the total waste generation

2027

- Continuously working to meet the target of Roadmap
- Partially remain in Environment
- Disposed by landfills or incinerator

2028

- Summary or Implementation in accordance to SDGs

Source: Pollution Control Department, 2019
Roadmap’s target

**Target 1** Reduce and replace some single use plastic by using environmentally friendly products

- 2019
  - Oxo-degradable plastic
  - Cap Seal
  - Microbead plastic
- 2022
  - Foam Food containers
  - Plastic straws
  - Single-use plastic bags thicker than 36 micron
  - Single-use plastic glass less than 100 micron

**Target 2** Recycle target plastic waste by applying circular economy principle

- Manufacturing
- Consumption & Use
- Recycling

100%

Measures

- reducing of plastic waste at sources
- reducing the use of single-use plastic at consumption process
- managing post-consumer plastic waste

period of time

- 1st phase on 2018 - 2019
- 2nd phase on 2020 - 2022
- 3rd phase on 2023 - 2030
Actions to deal with Plastic Waste

- Stop using plastic cap seal for drinking water bottles with 5 large drinking water producers from 1 April 2018 onwards
- Stop using micro-plastic by cooperation from the Food and Drug Administration (FDA) under the Ministry of Public Health
- Stop the plastic products containing oxo by cooperation from the Thai Industrial Standards Institute (TISI)
- Announced the campaign on “January 1, 2020 D-Day no use of plastic bag” in 43 supermarkets and departments store to abandon the use on plastic bag
- Ban on the import of plastic scarps and plastic waste from foreign countries
- Measure to reduce and separate waste in government sectors and educational institutions
Current initiatives on single-use plastic in food delivery and takeaway
Current Situation on Plastic Waste Management in Food Delivery

- A survey conducted by PCD during 15 – 26 April, 2020

Increasing of the consumption of food delivery approximately 30%

5,100 sampling

Use application 57%
Cook at home 43%

- Plastic waste composition from food delivery

- Plastic waste management from food delivery by consumers

5% PS foam box
7% plastic cup
7% plastic wrap
9% plastic spoon
9% straw
8% fork
15% plastic box
17% seasoning packet
3% knife
4% other
16% Plastic bag
45% mixed with general waste
42% clean, separate and collect for reuse and recycle
11% inform restaurant or application platform for refuse the cutlery
2% reuse or send back to restaurant/application platform

$\text{Use application: } 57\%$
$\text{Cook at home: } 43\%$

$\text{Increasing of the consumption of food delivery approximately 30\%}$

$\text{5,100 sampling}$

$\text{Plastic waste composition from food delivery}$

$\text{Plastic waste management from food delivery by consumers}$
Stakeholders in Plastic Waste Management in Food Delivery

- Restaurants/shops
- Platforms
- Consumers

Government sector/University/Researcher

Activities process

- Meeting consultation among stakeholders
- Conduct MOU to reduce single-use plastic in food delivery
- Conduct the Workshop to sharing knowledge
- Finding solution together
Guideline for Plastic Waste Management in Food Delivery

Application platform (Food delivery service provider)
- Add opt-in function in Application (refuse utensils and other include seasoning packets, showing Eco Label /environmentally friendly packaging /stores provided information to make decisions)

Restaurant
- Use environmentally friendly packaging
- Ask customer about eating utensil and other include seasoning

Customers
- Inform application platform or restaurant do not receive the plastic utensils and other include seasoning packets
- Source separation recyclable packaging
Incentives to Manage the Plastic Waste in Food Delivery

1. Incentive for shop to use environmentally friendly packaging with tax measures to promote compostable plastic packaging

2. Procure Platform of environmentally friendly packaging and sell it to partner shop with reasonably price

3. Provide the reuse packaging systems in certain areas that setting up return points in the work office with incentive without additional service fees. (Pay deposit only)

4. Incentive with discount prices in delivery or food, if consumer refuse eating utensils and other in plastics

5. Establishing a monitoring system and feed back evaluation from consumer in food delivery
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