

Towards More Sustainable Packaging Waste Management in Singapore

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Presentation Outline

1. Overview of Sustainable Packaging Waste Management in Singapore
2. Updates on Mandatory Packaging Reporting and Extended Producer Responsibility (EPR)
3. Suggested Materials Flow and Waste Audits (including plastics) for the Chemical Industry

1 Overview of Sustainable Packaging Waste Management in Singapore

Towards Zero Waste

2019 has been designated as the Year Towards Zero Waste

Key Driving Forces



Towards a Sustainable Singapore



Tackling Climate Change



Overcoming Resource Constraints



Focus Areas



Food Waste



Packaging Waste
(including plastics)



E-Waste
(Electrical and
Electronic waste)



Recycle Right

Packaging Waste (including plastics)

Initiatives

- Singapore Packaging Agreement since 2007
- Campaign to reduce use of disposables that commenced in Jun 2019
- Reverse Vending Machine Trial from Oct 2019
- Mandatory Packaging Reporting in 2020
- Extended Producer Responsibility (EPR) no later than 2025



Packaging Waste (including plastics)

Singapore Packaging Agreement



Voluntary industry-government platform to promote 3Rs for packaging

Launched in **July 2007**

54,000 tonnes of packaging waste avoided & **SGD130 mil** saved in packaging costs



Recipients of SPA Awards 2019 with Dr Amy Khor (Senior Minister of State for the Environment and Water Resources)



SPA Awards booklet with the commendable work done by the winners in reducing packaging waste

Packaging Waste (including plastics)

Say YES to Waste Less Campaign



Campaign to reduce use of disposables

Launched on **8 June 2019**

59 partners, covering more than **1,600 premises**



Rallying everyone to reduce use of disposables and work towards a Zero Waste Nation

Packaging Waste (including plastics)

Reverse Vending Machine Trial



Joint initiative between F&N and NEA

Project commenced on **31 October 2019**,
full RVM network to roll-out by **Mar 2020**

50 RVMs, **Phased roll-out**



*50 reverse vending machines
to be rolled out in major malls
and the community in 2019*



No.	Location	Store Format	Location Partner
1	Ang Mo Kio Hub	FairPrice Xtra	NTUC
2	Changi City Point	FairPrice Finest	NTUC
3	JEM	FairPrice Xtra	NTUC
4	Jurong Point	FairPrice Xtra	NTUC
5	Paya Lebar Quarter	Fairprice Finest	NTUC
6	NEX	FairPrice Xtra	NTUC
7	Northpoint City	FairPrice	NTUC
8	Our Tampines Hub	Fairprice	NTUC
9	Waterway Point	FairPrice Finest	NTUC
10	Yew Tee Point	FairPrice	Frasers Property

Roll-out in October 2019

Packaging Waste (including plastics)

Mandatory Packaging Reporting & Extended Producer Responsibility

Regulatory Framework for Packaging Waste Management

Introduce **Mandatory Packaging Reporting** of packaging data and plans to reduce, reuse or recycle packaging in **2020**, for businesses with annual turnover of **more than \$10mil**

Extended Producer Responsibility (EPR) framework to manage packaging waste (including plastics) **no later than 2025**



2 Updates on Mandatory Packaging Reporting and Extended Producer Responsibility (EPR)

Mandatory Packaging Reporting in 2020

What is Mandatory Packaging Reporting?

- A reporting regime where companies are required to submit annually:
 - Report on types and amounts of packaging placed on the market
 - 3R plans for packaging with self-set targets, including progress of implementation in subsequent submission
- To be implemented from 2020, with companies making their first submission in 2021
- Enacted through the Resource Sustainability Act









Mandatory Packaging Reporting in 2020

What are the objectives?

- To bring greater awareness to companies on the potential benefits for packaging waste reduction within their business operations
- To spur companies to take action to reduce the amount of packaging used and packaging waste disposed of, and offer flexibility for companies to implement measures
- To prepare companies for a more regulated approach under the Extended Producer Responsibility framework which will be implemented no later than 2025
- Packaging data collected could aid in future review and development of policies and programmes on packaging waste management

Mandatory Packaging Reporting in 2020

Types of companies	Examples of packaging to be reported
<p>Manufacturer of packaged goods</p> <p>Including: Companies that supply packaged goods that they manufacture in Singapore and companies that contract third-party companies to manufacture packaged goods (e.g. brand owners)</p>	<p>Primary and secondary packaging of packaged goods</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Manufactured and sold in Singapore by XYZ*</p> </div> <div style="text-align: center;">  <p>Manufactured in Singapore by XYZ for ABC*</p> </div> </div>
<p>Packer</p> <p>Including: Companies that pack their own goods directly and companies that contract third-party companies to pack goods (e.g. brand owners)</p>	<p>Packaging used to pack goods</p> <div style="text-align: center;">  </div> <p>Imported in bulk by XYZ* which contracted ABC to pack in individual packs</p>
<p>Importer of packaged goods</p> <p>Including: Companies that contract third-party companies to import (e.g. brand owners) and companies that import directly (e.g. parallel importers)</p>	<p>Primary and secondary packaging of packaged goods</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Imported and sold by ABC*</p> </div> <div style="text-align: center;">  <p>Imported by XYZ for ABC*</p> </div> </div>
<p>Retailers such as operators of supermarkets</p>	<p>Service packaging (i.e. packaging filled at the point-of-sales e.g. carrier bags) that they use in conducting their retail business</p> <div style="text-align: center;">  </div>

*denotes obligated parties

Overseas EPR Models

EPR MECHANISMS USED IN OTHER COUNTRIES FOR PACKAGING WASTE MANAGEMENT



TAKE-BACK WITH RECYCLING RATE TARGETS

Government mandates that producers take back products to achieve specific recycling or diversion-from-landfill targets



DEPOSIT REFUND SYSTEM

Surcharge on a product when purchased, and rebate when returned



PERFORMANCE STANDARDS / RESTRICTIONS

Standards required for particular parameters (e.g minimum recycled content in products, volume space ratio for specific products)



ECOLOGICAL MATERIAL TAXES

A policy that taxes packaging material while weighing the ecological footprint (e.g virgin natural resources, tax based on lifecycle assessment of climate impact)



PURE FINANCING MECHANISMS SUCH AS ADVANCE DISPOSAL / RECYCLING FEES (ADF / ARF) AND TRADEABLE CREDITS

An ADF / ARF is a tax assessed based on product sales and often used to cover the cost of disposal or recycling

Tradeable credits include Packaging Waste Recovery Notes (PRNs) that producers purchase to provide financial incentives for the recycling industry to collect / reprocess packaging waste

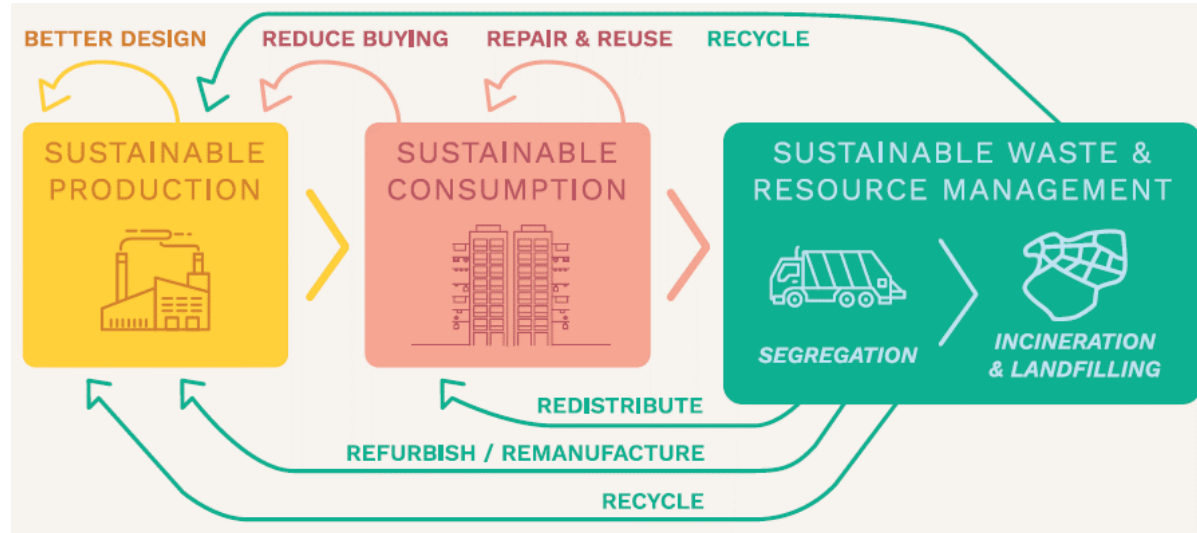
Extended Producer Responsibility

What are the objectives?

- Raise producers' responsibility for the end-of-life management of the packaging they place on the market
- Producers who place packaging into the market will be financially or physically responsible for the collection and recycling of the materials they use to package their products
- Target companies that have greatest influence over packaging use and drive producers to use packaging that are more recyclable
- Increase recycling rates and thus reduce waste sent for disposal

3 Suggested Materials Flow and Waste Audits (including plastics) for the Chemical Industry

Suggested Materials Flow & Waste Audits



Benefits

- To draw attention to waste generated and disposed of to help companies to:
 - better close the waste and resource loop for sustainability
 - reduce waste disposal cost
 - enhance corporate image
- Identify potential for industrial symbiosis

Suggested Materials Flow & Waste Audits

What you can do

- Carry out materials flow and waste audits
- Determine types and amount of materials, by-products and waste from operations
 - Amount and polymer types of plastic waste (e.g. PP, PE) generated per month
 - Amount and polymer types of plastic waste disposed of per month
 - Amount and types of by-products produced per month
 - Amount and polymer types of plastic waste recycled per month

Our Environment

Safeguard • Nurture • Cherish