DX, innovation, and introduction of Japan's technologies and expectations

Remanufacturing Production Project in ASEAN Countries - CE Policy in ASEAN countries and Vietnam's case--Trial Remanufacture in Vietnam-

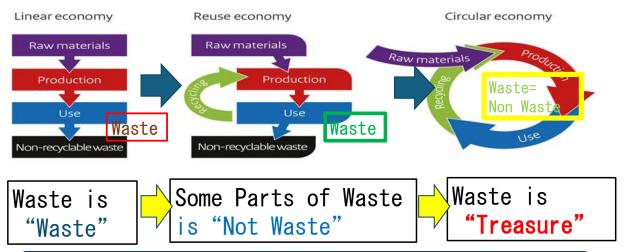
> JICA Clean City Initiative (JCCI) International Seminar 2024 7 February 2024

Vietnam MONRE- JICA Expert Ichiro Adachi



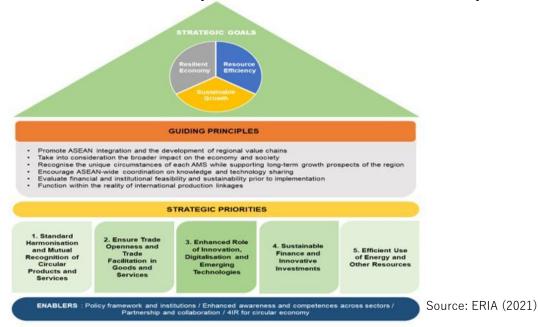
From a linear to a circular economy

Difference = The definition of the Waste should be transferred / integrated.

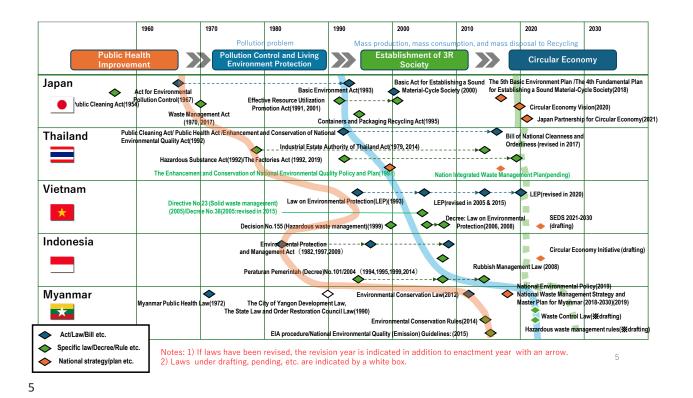


How and what do we consider and accept the "waste?

Framework for Circular Economy for the ASEAN Economic Community



4



Orientation of the Party and Government of Vietnam Viewpoints of the Party The period before the 12th National Congress of the Party (Before 2016): and Government of • The term circular economy has not been mentioned in any Party and Government policies. On the other hand, there Vietnam on circular have been a number of orientations and solutions related to the implementation of circular economy. economy: (ii) Period to implement the Resolution of the 12th Circular economy has been pointed out in a number of key national orientations such as Vietnam's National Congress of the sustainable energy development orientation; National action plan on sustainable production and Party (from 2016 consumption for the period 2021-2030. ťo 2020): (iii) The period from the The circular economy has been integrated into the Socio-Economic Development Strategy for the period 2021-2030 and the 5-year Socio-Economic Development Plan for 2021-2025. 13th National Congress of the Party to now In addition, many newly issued resolutions and strategies on economic restructuring and industrial development have presented the application of circular economy. (from 2021): In June 2022, the Prime Minister issued the Circular Economy Development Project in Vietnam

Source: MONRE-ISPONRE

Law on Environmental Protection 2020

The Law on Environmental Protection 2020 is a breakthrough for Vietnam

- ✓ **EPR** coming into force from 2024
- ✓ **Polluter pay principle** is valid from 2025
- ✓ Waste segregation at source from 2025
- ✓ A ban on single-use plastic bags from 2026
- ✓ Provide the **Circular Economy** concept and roadmap to implement circular economy from 2024

Source: MONRE-ISPONRE



7

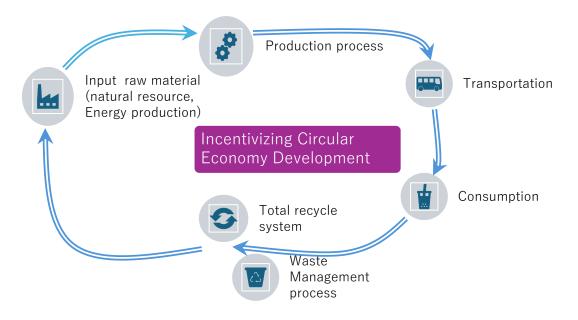
Article 142. Circular Economy

- 1. Circular economy is an **economic model** which encompasses the design, production, consumption and services activities aimed at reducing raw materials, extending product life, reducing waste generation and minimizing adverse impacts on the environment.
- 2. Ministries, ministerial agencies and provincial People's Committees shall incorporate circular economy immediately at the stage of formulating a development strategy, planning, plan, program or project; managing, reusing and recycling waste.
- 3. Every business shall establish a management system and take measures to reduce extraction of natural resources, reduce waste and increase waste recycling and reuse from setting up a project and designing a product or goods to production and distribution.
- 4. The Government shall elaborate on criteria, roadmap and mechanisms for encouraging the implementation of circular economy in conformity with the national socio-economic conditions.

Source: MONRE-ISPONRE



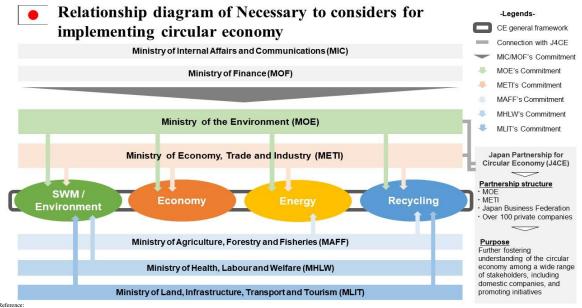
Circular Economy System Development -Linkage-



9

Challenges for Implementation - The Fact -





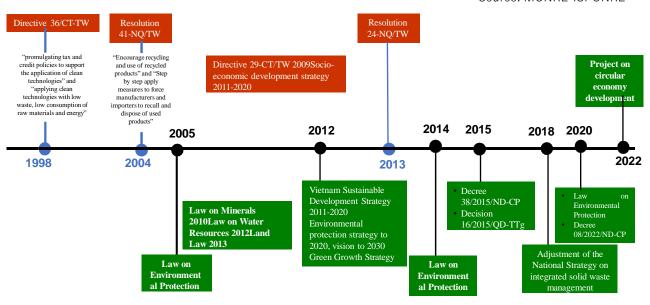
Ministry of the Environment, URL: https://www.env.go.jp/recycle/circul/venous_industry/en/history.pdf. Ministry of the Environment, URL: https://www.env.go.jp/en/hinistry of Economy, Trade and Industry, URL: https://www.env.go.jp/en/hinistry of Economy, URL: https://www.mnli.go.jp/en/hinistry of Finance, URL: https://www.mnli.go.jp/en/hinistry of Internal Affairs and Communications, URL: https://www.mnli.go.jp/english/ index.html, https://www.mnli.go.jp/english/index.html, <

Source: Nippon Koei (2022)

11

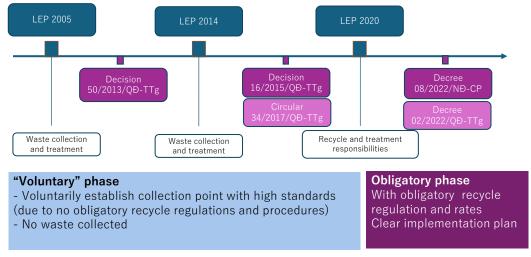
Vietnamese policies and laws related to circular economy development

Source: MONRE-ISPONRE





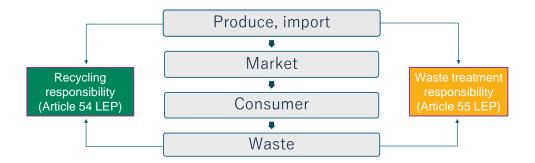
EPR has been implemented for more than 15 years; however, the efficiency is still limited due to the voluntary mechanism



Source: MONRE-EPR Office

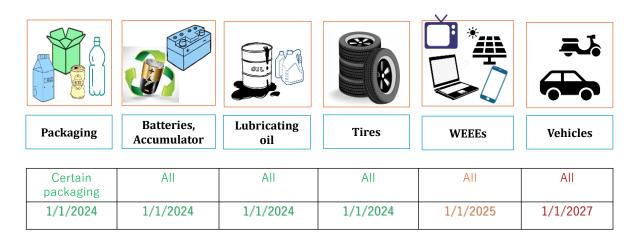
13

EXTENDED PRODUCER RESPONSIBILITY (EPR) ACCORDING TO THE LAW ON ENVIRONMENTAL PROTECTION



Source: MONRE-EPR Office

ENTITIES AND ROADMAP



Source: MONRE-EPR Office

15

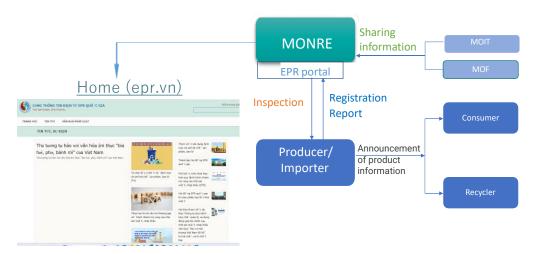
EXTENDED PRODUCER RESPONSIBILITY (EPR) MECHANISM NATIONAL EPR COUNCIL **MONRE** Management, Inspection - Decide the financial supporting - Monitor EPR implementation Vietnam EPR Report on recycling results Report on volume of products, packaging Office Examine Examine Inform Vietnam Financial contribution E.P. Fund Contract Pay suport Recycling unit Collecting, Contract recycling and treatment Report on recycling results Or, and Recycling plan Collection unit Or, and Products, packaging put on market

PRO: Packaging Recycling Organization

Source: MONRE-EPR Office

DLA

Information management – EPR case-



Source: MONRE-EPR Office

17

#To share and disclose information based on CE policy

#To construct a working group to monitor the CE

How we act these activities?

#Regular meetings among stakeholders/actors

#To develop a CE environmental report

#To do trial CE system development (Ex. Plastic trial, E-Waste Management)

Key Points: Various Actors Trial Cooperation and Coordination

Thank you for your attention

To be continued the presentation by "FUJIFILM Business Innovation Corp."