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Accelerating the Circular Economy: Integrating Circularity into Programs, Projects, and Policies Webinar on Financing the Circular Economy, 9 July 2024

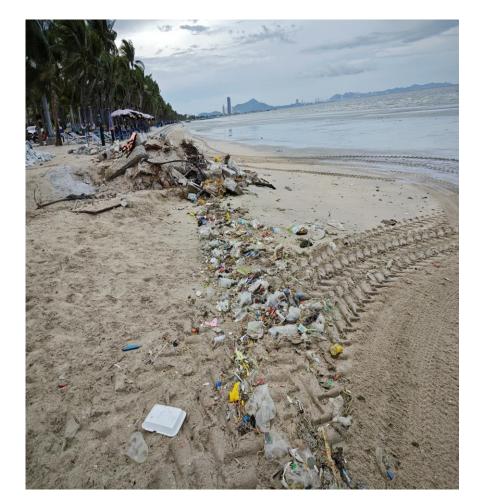


Economic Instruments and Public Finance for Plastic Circularity

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- Theoretical Background
- Economic Instruments
- Points of Intervention
- Landscape of Economic Instruments
- Implementation Mechanisms
- Scope & Cost of Interventions
- Considerations for Policy Adoption
- Q&A Session



Marine debris on Bang Saen Beach, Chonburi Photo by P.Manomaivibool (June 2024)

Theoretical Background

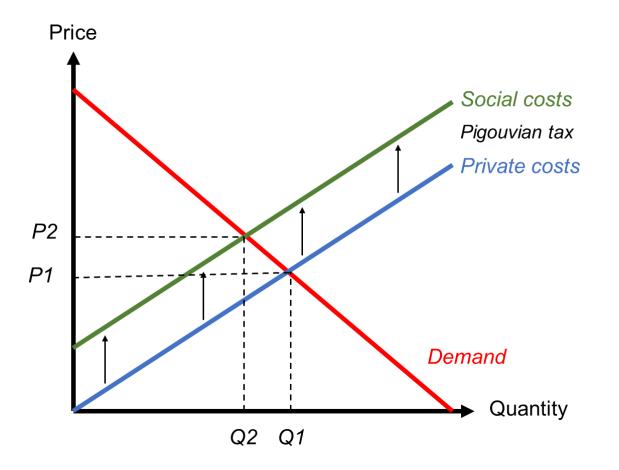


Figure: An effect of the Pigouvian tax on pollution

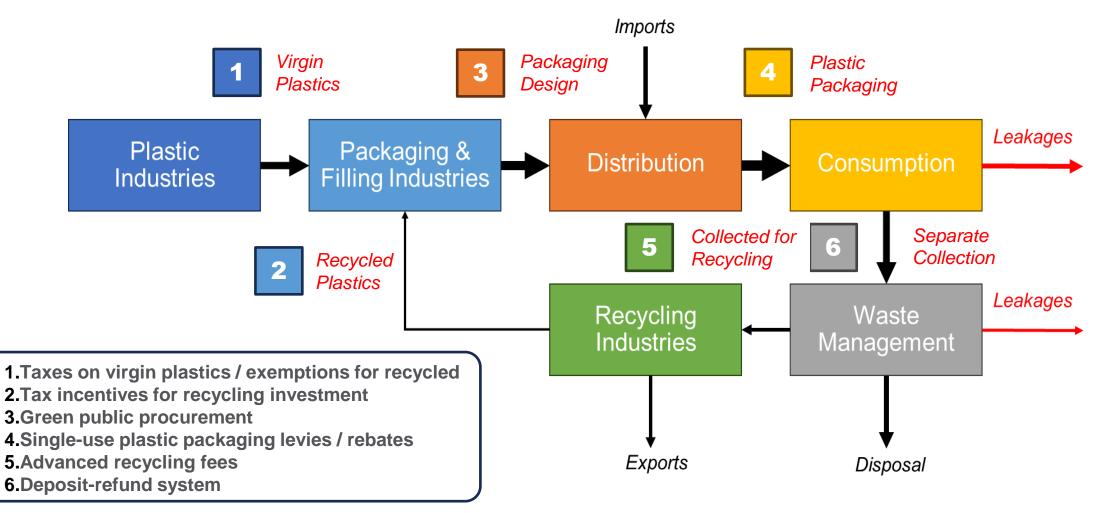
- Economic instruments provide market-based solutions to fix externalities.
- The cost internalisation is in line with the Polluter-Pays Principle (PPP).
- One advantage of economic instruments is that economic actors can make the decisions that reflect their different abatement costs.
- In addition, the revenues can be earmarked for clean-up efforts.



CEWT Economic Instruments

Economic Instruments	Finance for Plastic Circularity
Taxes on virgin plastics and benefits for recycled plastics	General budget: The tax targets the petrochemical industry that supplies virgin plastics to the packaging and filling industries while benefits can be given to industries using packaging with recycled content.
Tax Incentives for recycling investment	Finance recycling technologies: The measure encourages the recycling industries to add more capacity or technologies.
Green public procurement (GPP)	Finance green products: Government agencies use their purchasing power to create demand for environmentally friendly products and services in the market.
Single-Use Plastic Packaging Levies & Rebate Scheme	Finance clean up: Levies are applied when consumers request for SUPs while rebates can also be given in order to dissuade them from using SUPs.
Advanced recycling fees (ARFs)	Finance take back: ARFs can be charged in EPR programmes to encourage design changes and finance take-back operations.
Deposit/Return Scheme (DRS)	Finance collection: DRS aims at increasing the return of packaging by refunding the deposit collected when purchasing the products.

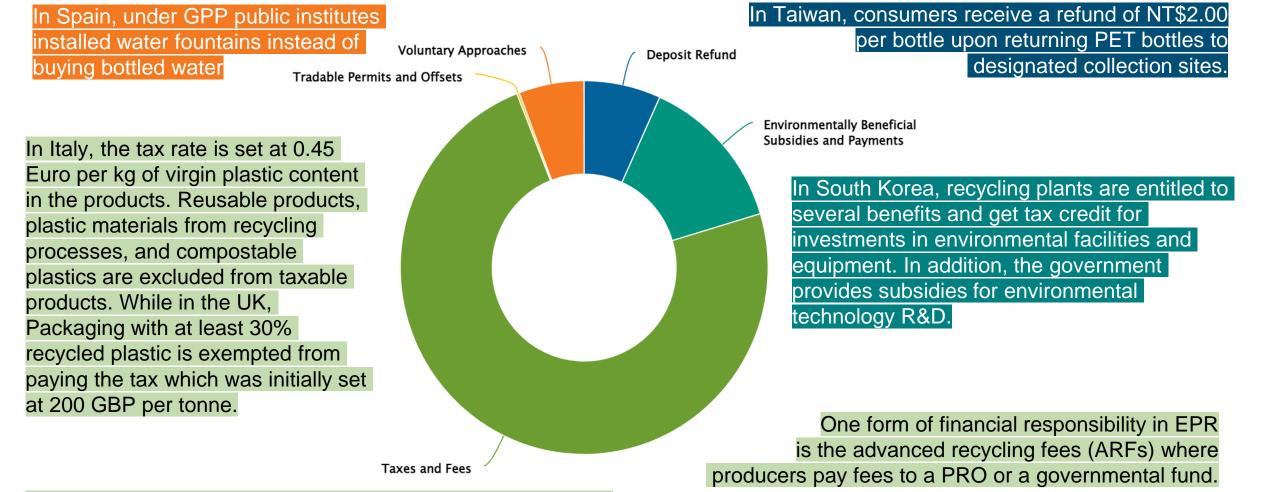




Source: TA-6669 REG: Promoting Action on Plastic Pollution from Source to Sea in Asia and the Pacific Prioritizing and Implementing Actions to Reduce Marine Plastic Pollution (Subproject 2)



The Landscape of Economic Instruments: Solid Waste and Circular Economy Domains



In Japan, a mandatory charge between 3 and 5 yen has been levied on single-use plastic bags since 2020.

Source: OCED (2023), Policy Instruments for the Environment Database



- The Deposit Refund System (DRS) for plastic packaging is a system designed to incentivize consumers to avoid creating negative impacts on nature and the environment.
- When customers purchase goods with such packaging, they are required to make a deposit, which will be refunded upon returning the packaging to the store.
- The store will then return the deposit to the customer in the form of coupons, redeemable for purchases at various stores or for paying for public services.
- Reverse vending machines (RVM) are deployed in many countries to implement DRS for bottles and cans.

<< Pic: Return and Earn in Australia by orangutanfoundation.org.au



CEWT Scope & Cost of Interventions

Aspects	Tax on Virgin	Benefits for Investment	GPP	SUP Levy	ARF (EPR Fee)	DRS
	Material Production		Distribution		Collection & Recycling	
Scope	All	All	Some	Some	All	Some
Size (USD/kg)	0.2-0.5	%	%	2.5-4	0.05–1	2.5-5
Effects on final consumers	Price Increase	Negligible	Availability	Price Increase	Price Increase	Perceived Price Increase/ Refund
Jurisdiction in Thailand	Dept of Industrial Works (DIW)	Board of Investment (BOI)	Comptroller General's Dept	Pollution Control Dept (PCD)	Pollution Control Dept (PCD)	Pollution Control Dept (PCD)

Source: TA-6669 REG: Promoting Action on Plastic Pollution from Source to Sea in Asia and the Pacific Prioritizing and Implementing Actions to Reduce Marine Plastic Pollution (Subproject 2)



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CEWT Considerations for Policy Adoption

Effectiveness:

Do the economic instrument lead to intended outputs, outcomes and *impacts?*

Efficiency:

Are the costs involved justified, given the changes and effects achieved?

Equity:

Is the economic instrument reaching certain beneficiaries or addressing specific needs?

Enforcement:

Are the resources required in the implementation within the capacity of the authorities?

* Adapted from Hinrichs-Krapels and Grant (2016) and Hartnett (2023)

