

POLICY BRIEF

Promoting Domestic Financing of Chemicals and Waste Management:

Focus on Low- and Middle-Income Countries

Elements of Chemicals & Waste Control System









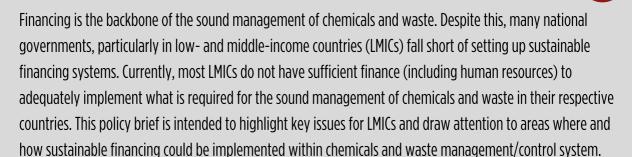






Adapted from an illustration by Maja Modén

Executive summary



Background

As financing is key to the sound management of chemicals and waste, sustainable financing must be built into relevant national legislation. Financing should include the direct costs related to use, management, enforcement, legislation, regulation and disposal of chemicals and waste. Additionally, it should also include the overall costs to society related to, for example, education/awareness raising, healthcare, clean-up, remediation, hazardous waste handling, economic instruments as risk management instruments, human poisonings, etc.

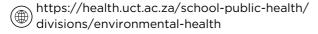
The United Nations Environment Programme (UNEP), as well as the Global Framework on Chemicals, advocate three approaches to financing chemicals and waste management - that is, 1) *mainstreaming* in national budgets (the focus of this policy brief) and in development assistance plans and other polices, 2) *industry involvement*, and 3) *dedicated external financing* such as the Global Environmental Facility and UNEP's Special Programme.

Produced by: Division of Environmental Health, School of Public Health, University of Cape Town, South Africa.



This document has been produced with financial assistance from Sweden, through the Swedish International Development Cooperation Agency, Sida, which has been arranged by the Swedish Chemicals Agency. The views herein shall not be taken to reflect the official opinion of Sida or the Swedish Chemicals Agency.

School of Public Health





Isikolo Sempilo Yoluntu

What should national finances cover?

Sustainable financing should cover the following elements of a sound chemicals and waste management system:

- Gather data on health and environmental hazards related to chemicals
- Develop and disseminate information to all who may be exposed to chemicals or waste or make policy decisions - in relevant languages and structured for different target audiences
- Develop and enforce legislation e.g., develop legislation that bans the use and online sales of highly hazardous substances and other chemicals of concern, and ensures compliance with legislation
- Provide structure for the whole value chain from production to waste (e.g., oversee the implementation and sharing of responsibilities among waste handling and site decontamination by producers/importers/traders)
- Research on health and environmental impacts, as well as less-toxic alternatives and alternative processes
- · Develop and implement standardised training and awareness-raising of the public and policy makers
- Establish multi-stakeholder committees for effective chemical and waste management, and risk reduction and prevention
- Mainstream chemicals in national budgeting and development plans

Responsibilities

Roles and responsibilities need to be defined in relevant national legislations. For example, it is important for government departments/ministries to develop legislation that places responsibilities on companies to internalise most of the costs of chemical and waste management (Table 1).

Table 1: National Government Responsibilities vs Industry



Government

Departments

• Labelling, bans, restrictions, registration requirements

• Develop, issue and update legislation/regulations, for example:

• Prohibit the registration of chemicals that are highly hazardous (e.g., highly hazardous pesticides), CMRs¹, or chemicals banned in other countries

• Enforce legislation

- Implement penalties and incentives
 - Monitor online sales of chemicals

• General administration

- Maintain chemical register
- Provide free, transparent and publicly available information
- Process registration applications

Establish and maintain government structures to manage chemicals and waste

• For example: personal, travel, national data, risk communication, information sharing, office space, laboratory costs, and inspections/inspectors (for all relevant sectors health, environment, agriculture, labour



(producers

and importers)

• Classify and label chemicals relevant to legislation

Gather data on chemical hazards

consumer/public safety

• Update information (e.g., on labels, Safety Data Sheets, chemical registers) as per the time frame referenced within the appropriate legislation

• Provide transparent information relevant to regulating chemicals and waste and for

- Develop and implement hazard and/or risk communication strategies during the phase out period for chemicals
- Develop non-toxic alternatives
- Report on legislated obligations
- Share new research findings with regulators
- Develop waste-handling systems

Financing Models

There are different ways that national governments can fund their chemical and waste management work. **Table 2** illustrates examples of different models that can be implemented simultaneously.

Table 2: Models for National Financing

Model Type	Model Details
Tax Based	Statutory payment is determined by law from companies to provide the state and municipalities with income. Examples - corporate income taxes on chemical-containing products (e.g., taxes on pesticides in Mexico - see references); excise tax² on ozone-depleting chemicals, vehicles transporting hazardous chemicals and other goods, and activities linked to chemicals; accumulated earnings tax³ for companies accumulating earnings and profits or environmental taxes (e.g., calculated per weight of hazardous⁴ or ozone-depleting chemicals)
Fee Based	 Government charges fees for providing services to industry (realistic costing of time/salaries/resources needed) - these are cost-recovery fees for all the services under government responsibilities Companies importing chemicals into a country, as well as producing, pay an annual fee (fee defined in legislation and increases annually to account for inflation) - for example, a flat-rate fee where all companies pay an annual fee dependent on the number, volume, and hazard of the chemical imported Fees per service - alternative to annual fee and charged for each service (e.g., inspections, assessments of applications) Fees for authorisation (per unit/hour) Fees for inspections of chemicals placed on the market (per unit/hour) Fees for import licences
National Budget Allocation	Allocation of state budget specifically for chemicals and waste management
Extended Producer Responsibility (EPR) Programmes	EPR shifts the financial responsibility upstream toward the producer (and, in LMICS, the importer) and away from local governments. Incentives can be given to producers/importers for considering health and the environment in the design of products. All costs associated with the life cycle of a product are included in the market price of that product - for example, products containing chemicals (e.g., plastics, electronics, batteries, tyres, packaging). Figure 1 illustrates the financial benefits of legislating EPR schemes
Incentives	Tax rebate for specified implemented initiatives (e.g., EPR)
Penalties	High penalties for the violation of legislation to both discourage infringement and cover costs (e.g., remediation, poisonings, environmental contamination)

 $^{^{2}}$ The excise tax rates are as varied as the goods and activities upon which they are levied.

³ Accumulated taxable income is the excess of taxable income with certain adjustments, including a deduction for regular income taxes over the dividends paid deduction and the accumulated earnings credit.

⁴ A government needs to legislate what a taxable substance is based on the type of chemical or class of chemicals.

Figure 1: Extended Producer Responsibility (EPR) Benefits

Design: EPR encourages producers to develop/design and importers to import products that are resource-efficient, easy to recycle and free from hazardous substances. Implements the 'polluter

pays' principle.



Cost Recovery:

EPR shifts the financial responsibility of waste management from local government to producers/importers.



Material Recovery: The importer arranges and pays for the collection, process, recycling and disposal of the packaging and product waste (e.g., buy-back schemes).

Separate Collection: EPR can enable or improve the separate collection of waste that can be problematic in the general waste stream.

Recommendations



National governments in LMICs should not bear any of the costs linked to registering, regulating and enforcing, research, poisoning and environmental contamination surveillence, accident clean ups and waste management. Therefore, national governments **need to legislate** the mechanisms listed in this brief placing the financial responsibility on industry.

National governments should ask for assistance from the UN and other agencies to assist with developing a sound domestic financing system.



Support for Developing Sustainable Financing: Keml Helpdesk

https://www.kemi.se/en/international-cooperation/support-for-development-ofnational-chemicals-control/helpdesk-on-chemicals-control-for-countries

References

- Swedish Chemicals Agency (Keml). (2020) Sustainable financing of institutional capacity for chemicals control. Guidance 1. Stockholm.
 - (https://www.kemi.se/download/18.39a6b9eb175a977d0432ec4/1607448291663/Guidance-1.pdf)
- United Nations Environment Programme. (2022) Study on Industry Involvement in the Integrated Approach to Financing the Sound Management of Chemicals and Waste. Geneva. (https://wedocs.unep.org/bitstream/handle/20.500.11822/40069/industry_waste.pdf? sequence=3&isAllowed=y)
- Brown, A., Laubinger, F. and Börkey, P. (2023) New Aspects of EPR: Extending producer responsibility to additional product groups and challenges throughout the product lifecycle. OECD Environment Working Papers, No. 225, OECD Publishing, Paris. (https://doi.org/10.1787/cfdc1bdc-en)
- Mexico example in Table 2:
 - UNEP. (2020) Study on the effects of taxes and subsidies on pesticides and fertilizers (https://wedocs.unep.org/20.500.11822/33582)
 - SAICM. (2020) Review of cost recovery mechanisms and other economic policy instruments for financing of the sound management of chemicals and waste (https://saicmknowledge.org/)
 - OECD. (2021) Regulatory Governance in the Pesticide Sector in Mexico. OECD. (https://doi.org/10.1787/99adfd61-en)

