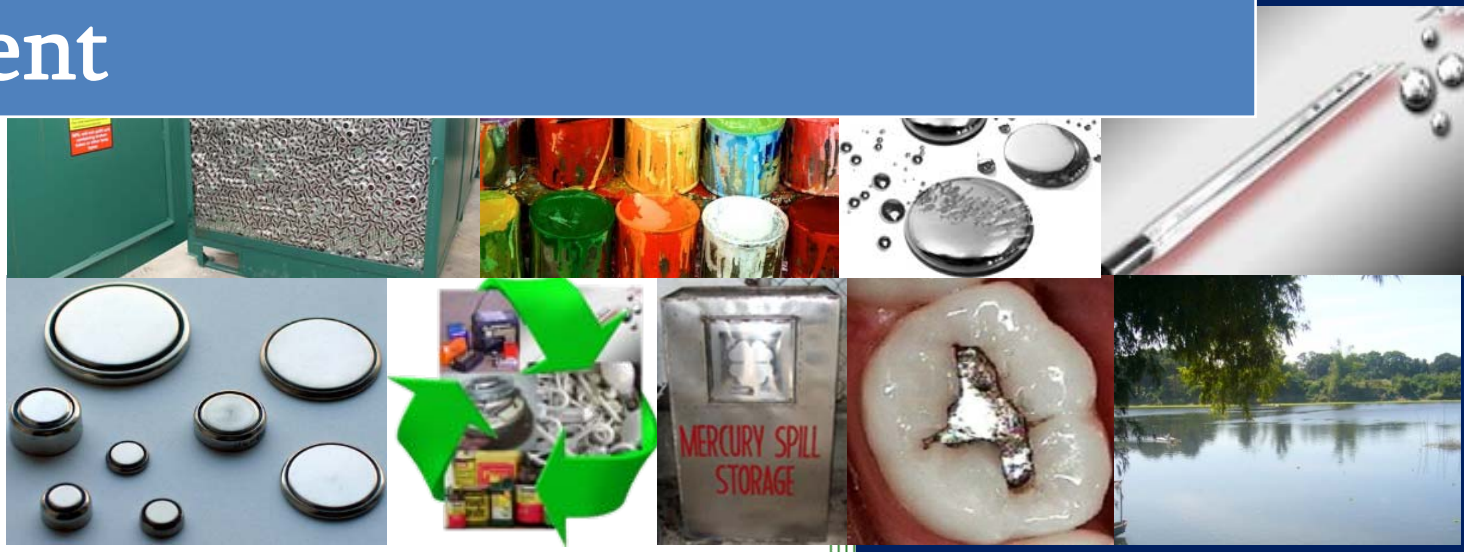
National Action Plan on Mercury and Mercury-containing Wastes Management



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Environmental Management Bureau
Department of Environmental and Natural Resources
DENR Compound
Diliman, Quezon City

Summary of Preparatory Activities

National Action Plan on Mercury and Mercury-Containing Wastes Management

PREPARATORY ACTIVITIES

- National Inventory of Mercury Sources
- Global inception Workshop
- Preliminary Action Planning on Mercury and Mercury-containing Wastes
- National Meeting for the Management of Mercury and Mercury-containing Wastes

National Stakeholder Participation

Commitments in International Conventions

GUIDANCE DOCUMENTS

- UNEP Toolkit for Identification and Quantification of Mercury Releases
- Technical Guidelines on Environmentally Sound Management of Mercury and Mercury-containing Wastes






ASSESSMENT OF EXISTING INVENTORY AND MANAGEMENT PRACTICES FOR MERCURY AND MERCURY-CONTAINING WASTES

Sources and Flow of Mercury and Mercury-containing Waste

SOURCES → **APPLICATIONS** → **WASTES**

- Impurities from the raw material used in power generation, cement and lime production, etc.
- Recovered or recycled mercury
- Chlor-alkali decommissioning, or other large sources
- By-product mercury from the refining or processing of some ferrous and most non-ferrous metals
- Stocks of accumulated mercury
- Import from other places of the world

- **Process**
  - Artisanal gold mining
- **Products**
  - Batteries
  - Lamps
  - Dental applications
  - Measuring and control devices
  - Chemicals (industrial, laboratory)

- Partly recycled
- Large part discharge to water, soil, and air

Used by various users

Toxic Wastes
- Landfill
- Storage
- Thermal treatment
- Dumpsites
- Everywhere

Other parts of the world





Assessment

- No centralized database or information network on the types and quantities of mercury and mercury-containing wastes
- Initial inventory gives estimate on the levels of mercury releases BUT not on the amount and type of wastes generated from process, product, or use of such product





Assessment

- Data on other uses of crude oil such as in the polymerization process or in the manufacture of plastic products are not considered
- Data on mercury emissions due to mining of metals are limited only to gold, silver, copper, and lead
- Calculation for the thermometers needs refinement because the initial calculation was based only on the number of hospitals and schools





Assessment

- Data on the importation and production of thermometers in the country is not available
- No data available for the production and importation of mercury to verify the validity of the total consumption of mercury in the country
- Levels for chlor-alkali production are under the assumption that the existing process uses mercury cell technology, which in fact is not the case

预览已结束，完整报告链接和二维码如下：
https://www.yunbaogao.cn/report/index/report?reportId=5_14325

Assessment

- uble accounting of mercury issions in pulp and paper oduction because its emission source due to the production of one of its imary raw material – caustic soda, hich is already accounted for in the lor-alkali production
- timated levels contributed by lamp stes are limited only to TFLs. (Policy dy on Lamp Waste Management)