

# Country Report – Cambodia

## Policies and technologies for developing and promoting ESM

Asian Network Workshop for Prevention of Illegal Transboundary Movement of Hazardous Wastes 2025

9-11 December 2025, Surabaya, Indonesia

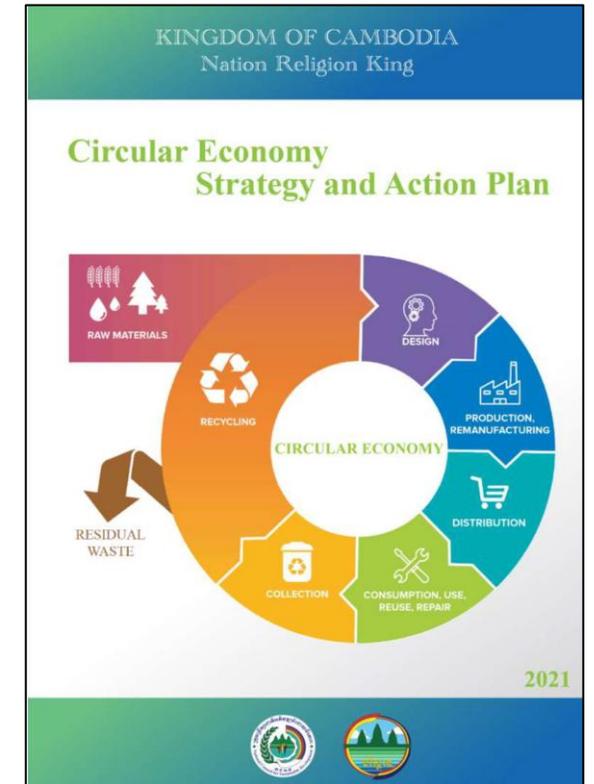
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Department of Hazardous Substances Management  
General Directorate of Environmental Protection  
Ministry of Environment

# Circular Economy strategy and action plan (2021)

## Goals:

1. Increase sustainable production and energy use
2. Increase sustainable consumption
3. Reduce waste generation at source
4. Improve effectiveness of waste collection, management, segregation and transport
5. Promote product reuse and repair
6. Increase recycling, composting and energy recovery
7. Ensure environmental controls at all waste management sites
8. Promote widespread environmental education and awareness raising

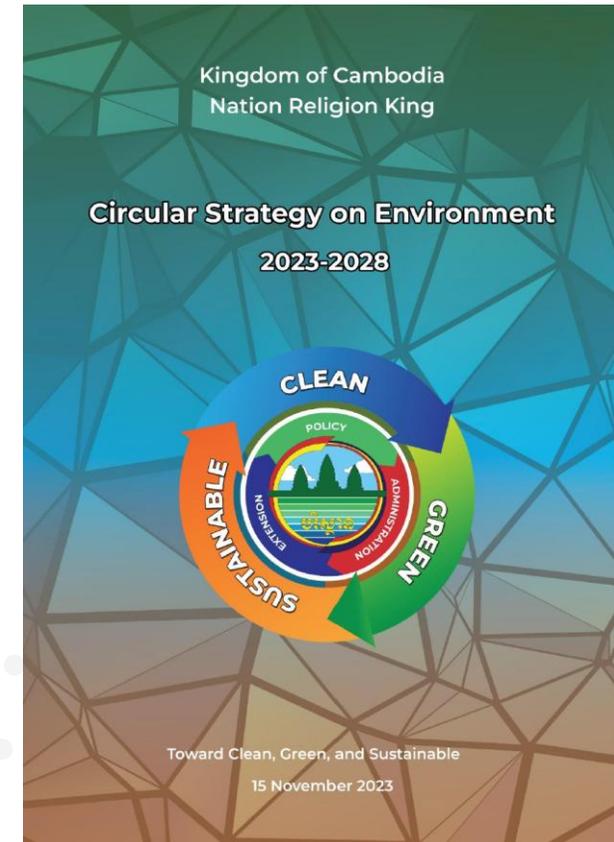


# Circular Strategy on Environment 2023 - 2028 (2023)



Including three angles: **controlling pollution**, modernizing pollution measurement system and improving environmental impact assessment.

- Foster the implementation of the 4R Principle "Refuse, Reduce, Reuse and Recycle"
- Foster and support on the strengthening and the expansion of waste management services and the establishment of the new management system based on the prevailing situations



# Status of Emerging Waste Streams

## ❖ Waste solar panels

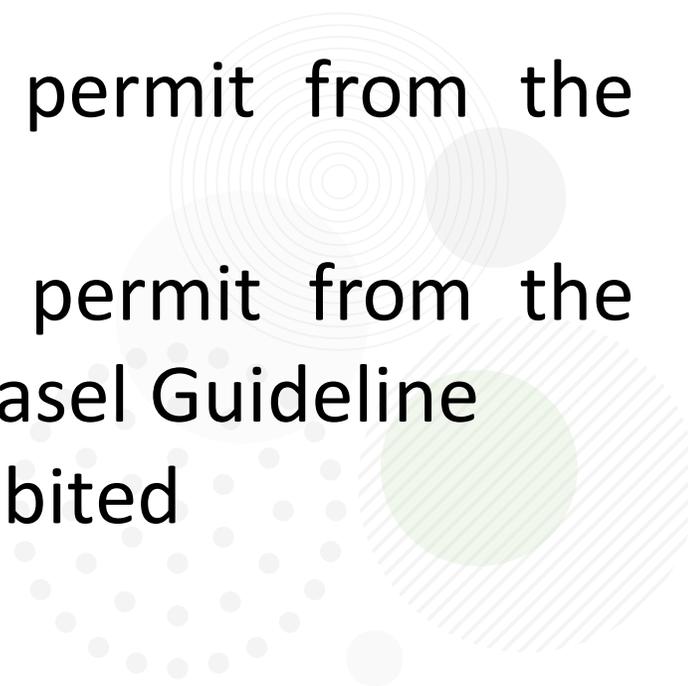
- Estimation of e-waste generated by Clean Energy sector in 2024: 3.1kt (approximately 1.8% of the total e-waste generated in the same year)
- Key contributors include solar farms, rooftop solar systems (RTS), and solar home systems (SHS)



# Status of Emerging Waste Streams

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## ❖ Waste solar panels

- Solar Panel is included in Prakas on EPR-EEE
  - Waste solar panels disposal (Factories) and collection requires a permit from the Ministry of Environment
  - Waste solar panels recycling requires a permit from the Ministry of Environment and conduct EIA
  - Export of waste solar panels requires a permit from the Ministry of Environment and comply with Basel Guideline
  - Import of waste solar panels is strictly prohibited
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# Status of Emerging Waste Streams

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## ❖ Waste Lithium-ion batteries (WLIB)

- WLIB is included in EPR-EEE
  - 2024: EV batteries use in registered vehicles: 5000 packs
  - WLIB collection requires a permit from the Ministry of Environment
  - Recycling facility of WLIB requires a permit from the Ministry of Environment and conduct EIA
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# Hazardous Waste Management Facility

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Hazardous waste treatment using co-processing in Cement Kiln:

- ❖ As Alternative fuel: Oily sludge, coolant, used oil, rubber and tyre waste, etc..
- ❖ As alternative raw material: Sludge, fly ash& bottom ash, contaminated soil, etc.



# Hazardous Waste Management Facility

E-waste and WLIB: domestic recycling (small scale) and importing



Large scale e-waste recycling facility is under feasibility study

# Hazardous Waste Management Facility

WLIB recycling facility is under EIA study

Their products: Aluminum flake, Plastic flake, Black mass and Copper flake



(C) កំទេចអាលុយមីញ៉ូម (Al)



(D) កំទេចដំរី (Plastic)



(A) សមាសធាតុពណ៌ខ្មៅ (Black Mass)



(B) កំទេចទង់ដែង (Cu)

# Action to Promote ESM

## Joining Cambodia Circular Economy Forum 2025 – E waste Regulation Dissemination (Sept, 2025)



# Action to Promote ESM

## Joining waste summit 2025 – E waste from Clean Energy Sector (Oct, 2025)



# Action to Promote ESM

## Workshop to disseminate the Prakas on EPR-EEE (Oct, 2025)



# Action to Promote ESM

## Education Campaign on E-waste and Battery waste



# Thank you!

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