Cambodia’s rapid economic growth & consumption, and tourism contributing to solid waste challenge
Waste in Phnom Penh landfill increasing steadily
Cambodian gov’t requested support from WB and KR gov’t for solutions on managing solid waste
Key issues in the solid waste sector

Recommendations for solid waste sector reforms and investments

Source of Municipal Solid Waste Generation in Phnom Penh
Knowledge Exchanges between South Korea and Cambodia on SWM in South Korea
Knowledge Exchanges between South Korea and Cambodia on SWM in South Korea
Waste Management System in Korea

Volume-Based Waste Charging System

Waste treatment cost on each polluter based on the amount of waste generated with free collection service for recyclable wastes.
Main Facilities at Sudokwon Landfill

Sanitary Landfill/Waste Management System

Leachate Treatment Technology

Solid Recovered Fuel (SRF) Plant

Clean Development Mechanism (CDM) for Recycling Landfill Gas

Sludge Recovery Plant

Food Waste Effluent Biogas Plant
Key message: Waste is an economic resource!

Waste to energy at Sudokwon Landfill

- **Renewable Energy (electricity) Production**
  - Approx. 100,000 households
  - Approx. 340 million kWh each year

- **Carbon Emission Right**
  - 800,000 tons of CO2 each year

- **Power Sales Revenue**
  - Approx. 33 million USD each year

- Landfill gas recycling for the CDM project
  - Registered as a CDM project with the UNFCCC and has been exported to two countries for the first time in Korea.
Key message: Waste is an economic resource!

Waste to energy at Sudokwon Landfill

- **Renewable Energy (electricity) Production**
  - Approx. 100,000 households
  - Approx. 340 million kWh each year

- **Carbon Emission Right**
  - 800,000 tons of CO₂ each year
  - Landfill gas recycling for the CDM project
  - Registered as a CDM project with the UNFCCC in the landfill gas application area for the first time in Korea

- **Power Sales Revenue**
  - Approx. 33 million USD each year
Knowledge Exchange Dissemination in Phnom Penh
WB-financed Plastic and Solid Waste Management Improvement Project (FY2021)
WB-financed Plastic and Solid Waste Management Improvement Project (2021)
Thank You

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