

# **Global Circular Economy of Strategic Metals – The Best- of-two-Worlds Approach Possible Solution Strategies - Ghana**

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# Presentation Outline

- Objectives of the Bo2W project and benchmark of project success
- Solution Strategies - Better access to downstream markets; Standards & certification; Cooperations between informal and formal recycling companies; Financing through EPR, local disposal options for hazardous waste
- Draft Ghana E-Waste Bill
- Recommendations on the way forward

# Objectives of the Bo2W Project

- **By the end of the project complex and environmentally dangerous fractions will be carefully dismantled in Ghana and treated in European refining plants using state-of-the-art technology**
- **Other fractions such as steel will be treated locally in Ghana in available industrial facilities**
- **Adopt a holistic approach and consider all the fractions coming out of e-waste**

# **Benchmark of Project Success**

**Valid, fair and sustainable recycling co-operations are launched, deepened and broadened between Ghana and Europe**

# **Solution Strategies – Better access to downstream markets (1/2)**

- **Support small and medium sized recycling enterprises that operate both on a formal and informal basis.**
- **Support to include business development, registration / gradual formalization, provision of appropriate technologies, and training and skills development of personnel**

# **Solution Strategies – Better access to downstream markets (2/2)**

- **Improve the legal framework and ensure stringent enforcement of existing Laws and Regulations (EPA Act, LI 1812, LI 1958) that enable a fair business environment and promote environmentally sound recycling operations**
- **Enforcement actions against illegal trade in e-waste to be implemented in both, the exporting countries and Ghana as the importing country**

# **Solution Strategies - Standards & certification (1/3)**

**The Government of the Swiss Confederation acting through the State Secretariat for Economic Affairs of Switzerland and the Government of the Republic of Ghana acting through the Ministry of Environment, Science, Technology and Innovation is implementing the Sustainable Recycling Industries Programme**

# **Solution Strategies - Standards & certification (2/3)**

**The specific objectives of the SRI include:**

- **Contribute to the promotion of policies and standards for the sustainable management of secondary resources.**
- **Create local capacities for sustainable recycling industries, aiming at competitive secondary resource recovery through environmentally and socially sound processes.**
- **Provide access to the experiences and tools**



# **Solution Strategies - standards & certification (3/3)**

**The objectives of SRI will be achieved through:**

- **Introduction of recycling standards and the initiation of a conformity assessment system,**
- **Technology partnerships, aimed at implementing business development models to transfer harmful recycling processes into sound processes carried out in small and medium enterprises (SMEs) in cooperation with the informal sector,**
- **The development of incentive mechanisms under the principle of extended producer responsibility (EPR)**

# **Solution Strategies – local disposal options for hazardous wastes**

- **Existing landfill in Tema has special cell for disposal of hazardous wastes**
- **Through the Environmental Impact Assessment process EPA-Ghana is able to ensure that future landfill developments include special cells for disposal of hazardous waste**

# **Draft Ghana E-Waste Bill (1/2)**

- **The draft Ghana e-waste Bill is seeing new life following the assumption of office of the new Minister of Environment, Science, Technology and Innovation (4<sup>th</sup> Minister)**
- **The Ministry of Justice resubmitted the Bill to the Ministry of Environment, Science, Technology and Innovation in early September 2015 for submission to Cabinet for approval and consideration by Parliament**

# Draft Ghana E-Waste Bill (2/2)

The draft Ghana e-waste Bill has provisions that address some of the issues under discussion today including:

- **E-waste levy and the E-waste fund to provide start up capital for e-waste recycling companies**
- **Extended Producer Responsibility by Original Equipment Manufacturers (OEMs)**
- **Private entities; Local Authorities to set up collection schemes in cooperation with OEMs and informal e-waste dealers**

# **Recommendations (1/3) - Improved collaboration and coordination**

- **Build strong collaboration between key stakeholders (National Security, Police) to enforce the no-burning of e-waste in Agbogbloshie and other parts of the country.**
- **Stringent enforcement of LI 1812 (Management of Ozone Depleting Substances & Products Regulations, 2005)**
- **Stringent enforcement of LI 1958, 2008 – Energy efficiency standards and labelling (Household refrigerating appliances)**

# **Recommendations (2/3) – recycling technologies, audits and inspections**

- **Develop and support appropriate recycling technologies that are capable of reducing pollution and that do not have negative impacts on job and income generation**
- **Conduct audits and inspections of processes and companies that pose the highest risk potential to human health and the environment.**
- **Train Government inspectors on specific know-how and approaches to identify potential sources of hazards and pollution**

# **Recommendations (3/3) - Intensive education & awareness creation**

- **Education and awareness programs are necessary, in particular targeting those stakeholders that have influence on e-waste collection and recycling**
- **This includes businesses of all sectors, policy makers, the recycling industry and the general public**
- **The media should be involved to contribute to discussion on environmentally sound e-waste management in Ghana**