GUIDELINES FOR TARGET GROUPS (STAKEHOLDERS) IN E-WASTE MANAGEMENT

(Source: Guidelines for E-Waste Management in Kenya-2010

By NEMA)

INF 314: E-Waste Management

By

J. K. Mutai

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STAKEHOLDERS IN E-WASTE MANAGEMENT

Almost everyone is/should be a stakeholder



Important to Note that.....

• There is no system to manage the various groups involved in the management of e-waste in Kenya.

- E-waste has to be managed through a carefully organized system and existing actors should be part of the management system Process.
- Stakeholders do have a collective responsibility for managing the e-waste at different stages in electronics life-cycle.

GUIDELINES FOR PRODUCERS/ MANUFACTURERS

- There are very few (if any) manufacturers of electronic equipment in Kenya/developing world.
- Most companies have their production plants in Asia, where they have specialized equipment and methods (Means) to recover useful raw materials from e-scrap.

Producers need to?

- Establish channels to collect the waste at the end of its life-cycle.
- Implement individual take-back schemes or get organized into sectorial or sub-sector

Manufacturers....

 Producer Responsibility Organizations (PRO) that encompass Extended Producer Responsibility (EPR).

- Clearly label products for easy identification and to show the elemental constituents of electronic product.
- Comply with Kenyan (local) standards in the manufacture of electronic goods.
- Build-in the cost of product take back and disposal into the purchase product price.

GUIDELINES FOR IMPORTERS / SUPPLIERS

- Importers of electronic and electric equipment are divided into two categories;
 - >Importers of new units and
 - >Importers of used units.
- Importers need to ?
- Specify standards for products on the expected remaining lifespan of the equipment and electrical appliances.
- Notify Authorities for consent to transport ewaste through Kenya and other territories subject to stated conditions

Importers Continued.....

- State the number of years a computer has been in use before "donation". The specifications should be stated according to the regulations on importation of preowned electronic equipment.
- Ensure used electrical and electronic goods reach the pre-destined end users. A record of customers should be kept to facilitate waste collection e.g. schools, churches.
- Indicate an envisaged lifespan of used units when importing used equipment and bear responsibility for this by ensuring that take back mechanisms are in place.
- Desist from importing hazardous e-waste.

GUIDELINES FOR ASSEMBLERS

Assemblers need to?

• Clearly label products for easy identification of product constituents.

• Clearly indicate Extended Producer Responsibility on electrical and electronic equipment.

• Comply with Kenyan/local standards on the assembly of electronic goods.

GUIDELINES FOR REFURBISHERS

- The refurbisher extends the functional life of equipment and feeds it into the second-hand market.
- Refurbishers need to ?
- Ensure unusable material should go to a licensed disposer

- Ensure waste plucked out of the equipment will go to authorized recycler
- Provide incentives to the consumer to donate used devices

GUIDELINES FOR RECYCLERS

• These are organizations and individuals who dismantle, separate fractions and recover material from e-waste after the lifespan of the equipment.

Recyclers need to?

- Establish recycling infrastructure and environmentally sound technologies to manage electrical and electronic waste
- Ensure that dismantling is done in an environmentally safe manner.

Recyclers Continued.....

• Provide recycling processes to be approved and licensed by NEMA and other responsible authorities

• Ensure that revenue generated through sales of the materials recovered will support the administrative, plant and machinery and other overheads.

GUIDELINES FOR GOVERNMENT ORGANIZATIONS

- These are the organizations involved in the formulation and enforcement of regulations regarding generation, handling and disposal of e-waste.
- They include NEMA, Ministry in charge of Local Governments, Ministry of environment, KEBS, KRA, Port authorities and CA.
- Government organizations need to ?
- Prepare a framework with appropriate legislation to support e-waste management
- Monitor the processes of e-waste handling regularly

Government Continued.....

- Create a management plan with responsibilities for different target groups (Stakeholders)
- Provide incentives to entrepreneurs to set up e-waste collection and treatment facilities
- Regulate / control the number of e-waste facilities within a geographical area
- Approve innovative e-waste management technologies that are environmentally sound
- Form multi-stakeholder monitoring committees to oversee the implementation of the e-waste management guidelines

Government Continued.....

• Create awareness among all the stakeholders through the legislative frame work of e-waste management

 Develop standards to prevent the importation and donations of useless or harmful e-waste

• Determine the impact of and come up with strategies for managing technology changes such as analogue-to-digital television equipment and deciding the procedure for Strategic Environmental Assessments

GUIDELINES FOR CONSUMERS/END-USERS

• Consumer can either be: an individual or a corporate organization that owns a device which falls into one of the e-waste categories and which is considered to have ceased to be of any value.

Consumers need to?

- Separate e-waste from other wastes to facilitate collection, treatment and recycling
- Dispose e-waste generated to the e-waste collection centres

Consumers Continued.....

Sell or donate e-waste to licensed refurbishers

• Take back equipment to the manufacturer, importer or assembler, if they allow it.

• Dump e-waste at the licensed dumping site specified for the e-waste

 Be responsible for following recommended disposal methods or procedures especially dates of expiry or end of usage period of the product

GUIDELINES FOR LEARNING INSTITUTIONS

• Learning institutions can be those associated with basic education or higher education.

• They are recipients (purchase or donations) of electrical and electronic goods.

• Unfortunately, most of the second hand products are not inspected before they are donated. Coupled with poor handling and use, their lifespan becomes shorter resulting in huge amounts of e-waste in most learning institutions.

In order to manage e-waste, learning institutions need to?

- Create awareness and conduct sensitization campaigns on responsible e-waste management
- Develop Memorandum of Understandings (MoUs) with PROs for take-back, recycling and refurbishing of e-waste at life-end
- Develop mechanisms to ensure that inspection certificates clearly specify end-of-life date and who bears responsibility thereafter
- Develop and mainstream e-waste education in curricula.

GUIDELINES FOR TRANSPORTERS

Transporters need to:

• Ensure e-waste on transit is properly stored

• Ensure vehicles transporting e-waste obtain a waste transport license from NEMA.

- Ensure e-waste is disposed in licensed dumping sites
- Provide efficient transport for e-waste

GUIDELINES FOR DISPOSAL AUTHORITIES

Disposal authorities need to:

• Develop disposal standards for each type of toxic waste, including procedures for disassembling and recycling

 Develop proper infrastructure for e-waste collection and disposal

• Set manageable fees to sustain e-waste management

GUIDELINES FOR INFORMAL SECTOR E-WASTE COLLECTORS

• Informal sector e-waste collectors will only need to acquire a license if they collect e-waste from various sources.

• Follow regulations standards and guidelines as set by authorities

GUIDELINES FOR PEOPLE LIVING NEAR DUMPSITES

 People living near dumpsites need to be educated on how to detect potential health hazards, through organized workshops by the ewaste management stakeholders and environmental health practitioners

Summary

- There is need to carefully identify all potential E-waste stakeholders for effective management
- Every stakeholder should play their role efficiently as a collective responsibility.
- There is need for governments to develop a legislative framework for control and regulation
- It is the responsibility of everyone including consumers to play their roles in e-waste management

