Guidelines
Collection, Storage, Handling and Transportation of Household E-waste in Malaysia

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Outline of Presentation

1. Key components of the Collection Guidelines
2. Responsibilities of the waste generators
3. Requirements for collectors / retailers
4. Requirements for transporters
5. Requirements for recycling facilities
6. Registration / Approval
7. Summary
8. Remaining Challenges
Household E-waste Flow

Generators
- Individuals/Households
- Commercials/institutions/Industries
- Other generators of household E-waste

Authorized Collection Centers / Collectors
- Recyclable Buyers (private)
- Local government recycling centers
- Concessionaire companies
- NGO / Charity Organizations
- Community / RA / Schools
- Producers’ take back initiatives

Authorized Retailers
- Shops / Chained-shops
- Hypermarkets / Malls
- Brand dealers

Mandatory Transfer of E-Waste Collected (Authorized Transporter)

Downstream Recycling Industries

Licensed Household E-waste Recycling Facilities

Informal Sector

System Boundary

Scheduled waste

Non-scheduled recyclables

Secured Disposal

Formal Treatment
Users of the Guideline
Collectors, collection centres (private companies, NGOs, CBOs, charity organizations, concessionaire companies etc.); retailers (shops and shopping mall etc.)

Key Components of the Guidelines

<table>
<thead>
<tr>
<th>Registration / Approval Procedures</th>
<th>✓ Eligibility of applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>✓ Application procedures (with application forms)</td>
</tr>
<tr>
<td></td>
<td>✓ Supporting documents required</td>
</tr>
<tr>
<td></td>
<td>✓ Registration / Processing fees?</td>
</tr>
</tbody>
</table>

| Requirements for Collection, Storage, Handling and Transportation | ✓ Lists of requirements in terms of collection, storage, handling and transportation. |
|                                                                  | ✓ Responsibility to do reporting |
|                                                                  | ✓ Other specific requirements (e.g. for repair shops, de-installers for air-conditioners) |
Responsibilities of Waste Generators

Generators

- Do not dismantle any household E-waste generated
- Give / donate / sell / discard household E-waste only to approved / authorized collectors or retailers.
- Be responsible on the household E-waste generated; make sure it ends up at licensed facilities for proper treatment.
- Do not discard / sell the household E-waste to unauthorized players / the informal sectors.
Requirements for Collectors / Retailers

Collectors / Retailers

• Obtain approval / authorization from the DOE.
• No dismantling of the household E-wastes received / collected.
• Proper storage of household E-waste received / collected.
  (e.g. store the lithium batteries and button batteries separately in containers at dry cool places; beware of creating mosquito breeding ground in storage area).
• Proper labeling at collection / storage areas.
• Deliver the collected household E-waste only to other authorized premises or licensed recycling facilities / only use authorized transporter.
• Fulfill reporting requirement (refer to the requirements in Reporting Guidelines) – manifest system.

Note: Requirements for E-waste collectors and retailers may be different
# Requirements for Transporters

<table>
<thead>
<tr>
<th>Transporters</th>
</tr>
</thead>
<tbody>
<tr>
<td>• <strong>Obtain approval / authorization</strong> from the DOE (Registration of transport vehicles).</td>
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<tr>
<td>• Transport of collected household E-waste following all the SPAD requirements.</td>
</tr>
<tr>
<td>• Fulfill transport requirements (e.g. <em>avoid overload</em>; make sure E-waste transported is <em>fully covered</em>; no temporary storage is allowed).</td>
</tr>
<tr>
<td>• <strong>No dismantling</strong> of the household E-waste is allowed.</td>
</tr>
<tr>
<td>• <strong>Proper labeling</strong> at the transport vehicle.</td>
</tr>
<tr>
<td>• Deliver the household E-waste <strong>only to authorized premises or licensed recyclers</strong>.</td>
</tr>
<tr>
<td>• Fulfill <strong>reporting requirements</strong> (refer to Reporting Guidelines) – manifest system.</td>
</tr>
</tbody>
</table>

*Note: Requirements for E-waste collectors and retailers may be different*
Requirements for Recycling Facilities

Recycling Facilities

- Obtain license from the DOE. Also to obtain approval as collectors or transporters.
- Fulfill requirements as collectors and transporters if involved in the collection and transportation activities.
- Receive household E-waste only from authorized / approved sources.
- Fulfill reporting requirement (refer to the Reporting Guidelines).
Registration / Approval

• **Eligibility**
  ✓ The applicant for authorization or registration is only applicable to company (with registration of ROC), association or society (with registration of ROS) as well as any government agencies (Local, State or Central).
  ✓ Any individual or sole proprietor, who is interested or involved in the activities of collection, storage, handling and transportation of household E-waste, shall engage any registered or authorized stakeholders for carrying out the activities.

• **Procedures:**
  ✓ Registration procedures will be decided by the DOE, registration form was drafted.
## Summary of the Key Responsibilities

### Waste Generators

Discard, donate, give, sell the household E-waste ONLY to approved / authorized collectors or retailers or licensed recyclers.

### Collectors/Retailers/Transporters/Recyclers

- Obtain approval / authorization / license from the DOE.
- Collect / receive household E-waste - no dismantling.
- Store and transport in accordance to the requirements in the collection guidelines.
- Channel the collected household E-waste only to the licensed recyclers
- Fulfill reporting requirements – manifest system
Remaining Challenges

• Some specific requirements need to be clarified:
  ✓ Determination of E-waste collected or received by different sizes / capacity
  ✓ Determination of E-waste collected or received by brands
  ✓ Determination of E-waste collected or received in complete or incomplete set

• Requirements for storage and transportation should be made different for 2 main categories of collectors:
  (1) Collectors specialized only in waste collection
  (2) Retailers

• Option of using electronic manifest instead of hardcopies.

• Implementation issues: logistic challenge in rural areas, limited storage space, small collected quantities, low buying price by authorized players etc.
TERIMA KASIH!