

Parallel Roundtable 4: Economic Opportunities through 3R ~ Waste Electrical and Electronics Equipment (WEEE)

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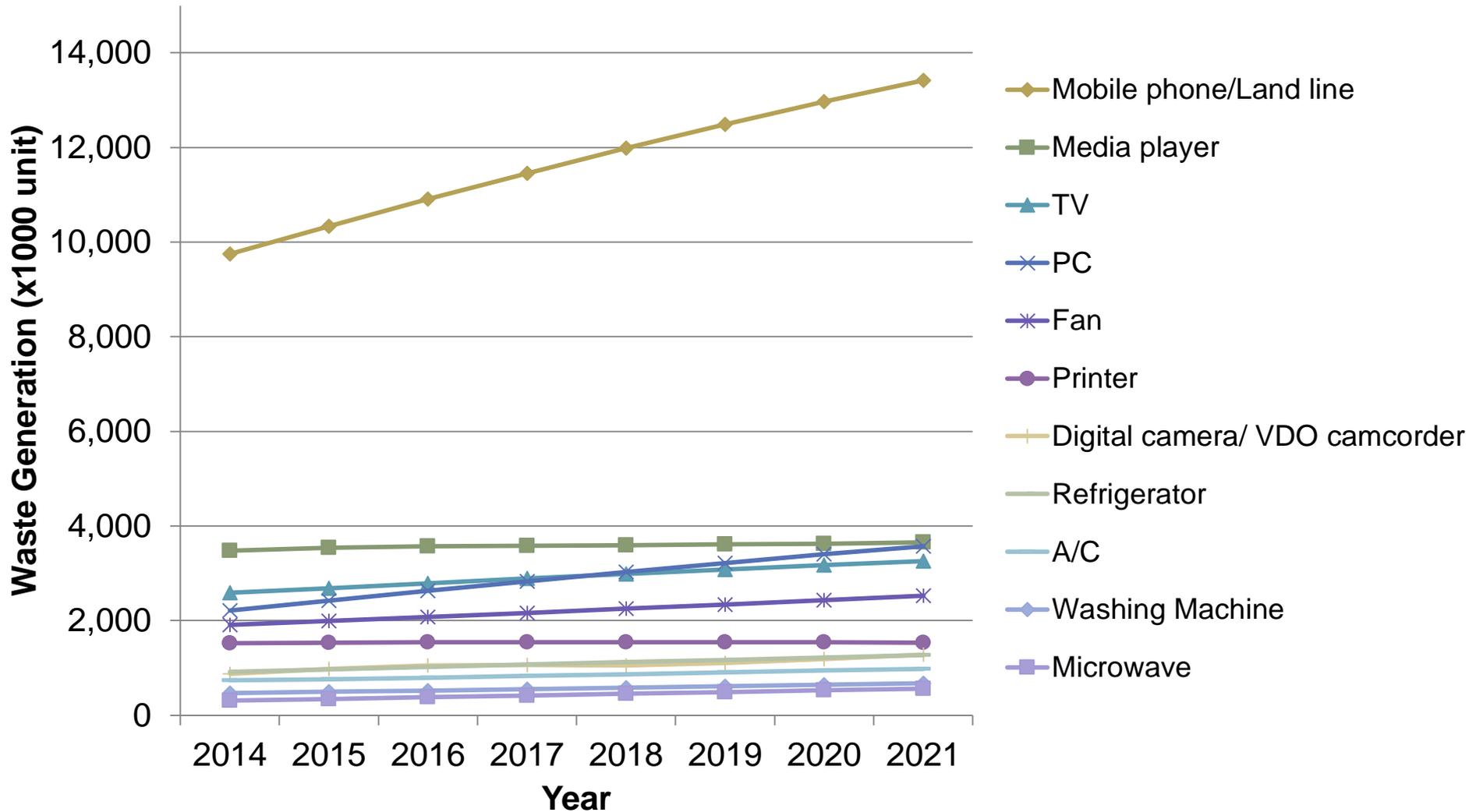
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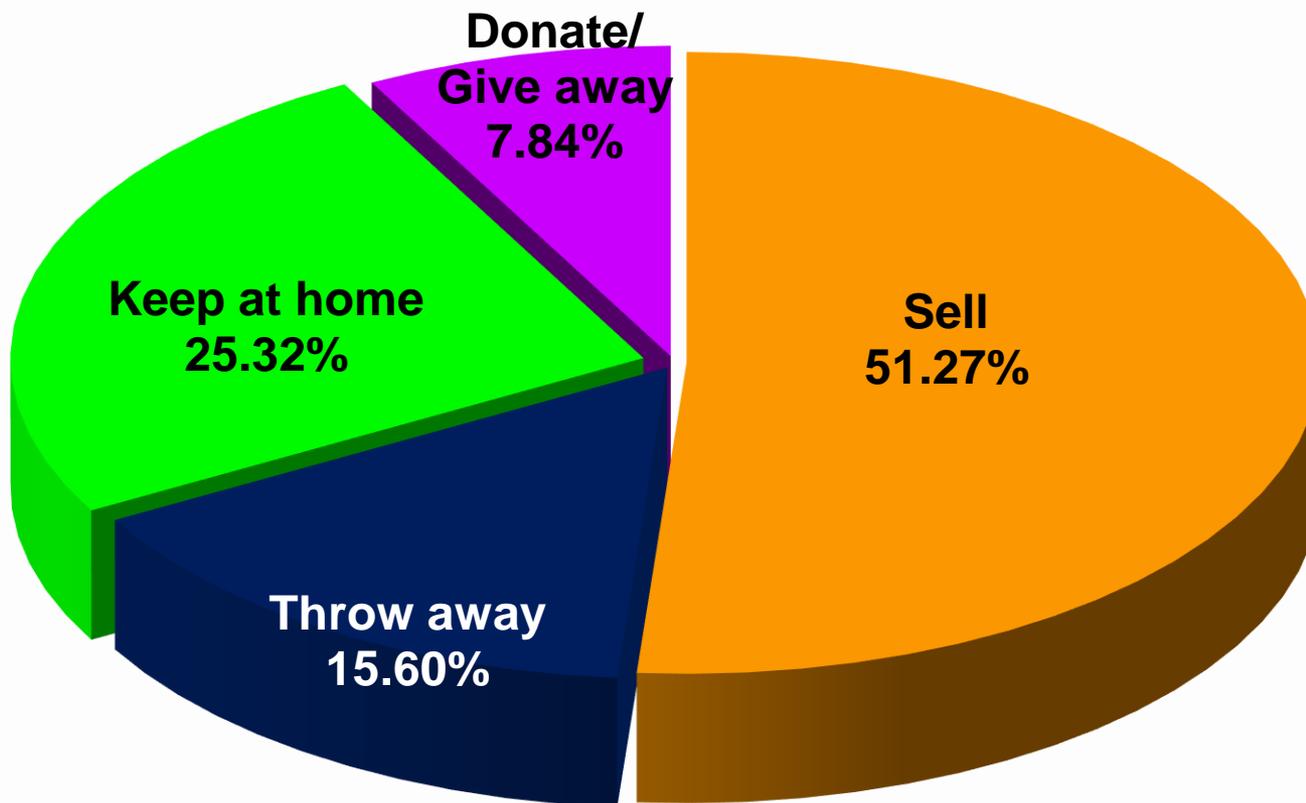
Outline

- **WEEE situation**
- **Thailand WEEE Policy and Legislation**
- **E-waste Management : Trend and Opportunity**

Estimation of WEEE Generation



Pathway of WEEE



PCD (2012)

Management Problems

1. Lack of WEEE laws and regulations

- No specific laws and regulations
- Lack of enforcement

2. Lack of awareness/knowledge

- No waste segregation/mixed waste
- Keeping e-waste at home/office – loss of recycling opportunity



Management Problems (cont'd)

3. Lack of supporting mechanism/ environmentally sound infrastructure

- Only few environmentally sound recycling facilities
- Centrally distributed location of waste processors
- Lack of good collection practice



Ref: Carbon Reduction Technologies

4. Illegal import

- presumed to be some source of e-waste for non-environmentally sound recycling and disposal facilities



Management Problems (cont'd)

5. Existing and active “informal sector”

- A lot of junk shops across the country
- Non-environmentally sound recycling
- Lack of pollution control/ environmental protection measures
- Residues from recycling and non-valuable components/parts are discarded with municipal solid waste



Thailand WEEE Policy and Legislation

National Integrated WEEE Management Strategy

Strategy (2014-2021)

1. Strengthening of import/export control
2. Promotion of eco-friendly e-products with the focus on public procurement
3. Development of WEEE database
4. Development of WEEE segregation, collection, storage and transport for local government
5. Upgrade of dismantling and recycling facility
6. Promotion of public awareness on WEEE

- Preventive measures
- Implementation of Extended Producer Responsibility (EPR)
- Use of economic instruments in the WEEE management
- Prepare all stakeholders for WEEE law

Draft Act on the Management of WEEE, B.E.

Specific law on WEEE management based on **Extended Producer Responsibility (EPR)** principles

Producer/Importers

- Provide take-back and collection channels
- Register and submit in compliance with National WEEE management plan

Consumer

- Return e-waste to the distributor, take-back center or authorized factory
- Not allowed to discard end-of-life product in the public place, abandoned site or in MSW stream

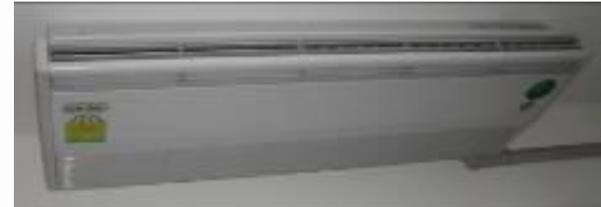
Take-back Center

- refrain from product dismantling, except inspection purposes
- send the collected end-of-life products to authorized factory

Proposed Types of WEEE to be Regulated



1. TV



2. Air Conditioners



3. Refrigerator



4. Desktop & Laptop



**5. Mobile phone
/Land line**

E-waste Management :

Trend and Opportunity

- **Increasing of WEEE**
- **Promotion environmental-sound management of E-waste and WEEE for effective recovery, recycling and disposal by the national WEEE plan and WEEE law development**
- **Opportunity to establish WEEE processing and recovery plants in nationwide**
- **Incentives for WEEE business such as BOI, tax incentives for green products and recycling technology**

Thank you

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