# "Current Status on Generation, Collection, Treatment and Facilities of E-Wastes in the Philippines"









## **OUTLINE**

- **GENERAL INFORMATION ON E-WASTES**
- **POLICIES, RULES AND REGULATIONS** 
  - Law and Policies on Hazardous Waste Management
- DATA AND INFORMATION
  - Hazardous Waste Generators & Generation Data
  - Import and export data
- PROGRAMS/PROJECTS/STUDIES
  - Philippine studies
  - Basel Convention and Stockholm convention
- CONCERNS AND CHALLENGES
- MEASURES TO ENSURE THE STABLE SUPPLY OF WEEE TO E-WASTE TSD FACILITIES



## **GENERAL INFORMATION ON E-WASTES**

## **Current Situation and Practice**



## "E-waste: Poisons, Metals and Ethics Adrift

Workshop on Hazardous substances within the life-cycle of electrical and electronic products

Vienna, 29-31 March 2011

**Source: Basel Action Network** 



### **OMG: What have we Done?**



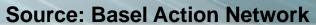
**Source: Basel Action Network** 













Geri-Geronimo R. Sañez
Chief, Hazardous Waste Management Section
Environmental Quality Division
Environmental Management Bureau
Department of Environment and Natural Resources



## Hyper-Obsolescence in IT Consumption

- Today's computer industry brings new technology and 'upgrades' to market every 18 months.
- Reasons:
  - Rapid Innovation.
  - No \$\$ incentive for "longevity". Much \$\$ incentive for rapid, <u>planned</u> obsolescence churning product.
- Average life span of use of a personal computer for the original consumer is now 2 years.

**Source: Basel Action Network** 



## E-Waste is Hazardous Waste



**Source: Basel Action Network** 



## Hazardous e-Waste Constituents

- Toxic Metals
   Lead, Cadmium, Mercury, Beryllium, Selenium,
   Lithium, Antinomy, Arsenic
- Brominated Flame Retardants
   TBBA (tetrabromo-bisphenol-A)
   PBDE (polybrominateddiphenyl) etc.
- Other Halogenated Hydrocarbons PVC (polyvinyl chloride) CFCs (chloroflourocarbons)
- Rare Earth Elements
   Yttrium, Europium, Americium

Source: Basel Action Network



## Divert from landfill to...recycling?



**Source: Basel Action Network** 





**Source: Basel Action Network** 



In Europe, 54% of WEEE is thought to go to substandard treatment...



Source: Basel Action Network

**Exporting Harm: The Dirty Little Secret** of the High-Tech Industry



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Chief, Hazardous Waste Management Section
Environmental Quality Division
Environmental Management Bureau

**Department of Environment and Natural Resources** 



## Away is a Place.....



**Source: Basel Action Network** 



## POLICIES, RULES AND REGULATIONS

# The Law and its Implementing Rules and Regulations



# RA6969: Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990

## **Declaration of Policy**

"to ensure that importation, manufacture, distribution, use, transport, and disposal of toxic substances and hazardous waste will not present unreasonable risk to public health and the environment"

Geri-Geronimo R. Sañez

Chief, Hazardous Waste Management Section
Environmental Quality Division

Environmental Management Bureau
Department of Environment and Natural Resources



## Policy Statement of RA 6969

"Regulates the importation, manufacture, processing, handling, storage, transportation, sale, distribution, use and disposal of chemical substances and mixtures in the Philippines including the entry, even in transit, as well as the storage and disposal of hazardous and nuclear wastes into the country for whatever purpose"

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## DAO 92-29: The Implementing Rules and Regulations

- provides for the regulation of all chemical substances that may pose threat to public health and the environment whether through import, manufacture, sale, use, distribution, and disposal
- provides for the regulation of all hazardous wastes from generation, transport, storage, re-use and recycling, treatment and disposal

## RA 6969: Toxic Substances and Hazardous and Nuclear Waste Control Act of 1990

- DAO 92-29: The Implementing Rules and Regulations
  - Title II- Toxic Substances (Chemicals) Management [PICCS, PMPIN, PCL, CCO-Hg, CN, Asbestos, ODSs, PCB]
  - Title III- Hazardous Waste Management
- DAO 2004-36: Procedural Manual for Hazardous Waste Management
  - Classification of Hazardous Wastes
  - Registration of Hazardous Waste Generator
    - Registration of Hazardous Waste Transporters
  - Categories of Treatment, Storage and Disposal (TSD) Facilities

## PRESCRIBED HAZARDOUS WASTES

### Table 1-1 Classification of Hazardous Wastes

	CLASS	WASTE NUMBER
-	Plating wastes (Waste with cyanide)	A101
	Acid wastes	B201 to B299
	Alkali wastes	C101 to C399
•	Wastes with Inorganic Chemical	D401 to D499
	Reactive Chemical Wastes	E501 to E599
	Paints/Resins/Latices/Inks/Dyes	F601 to F699
•	Waste Organic Solvents	G703 to G704
	Putrescible/Organic Wastes	H801 to H802
•	Oil	1101
	Containers	J201
	Immobilized Wastes	K301 to K303
•	Organic Chemicals	L401 to L499



## PRESCRIBED HAZARDOUS WASTES

Table 1-1 Classification of Hazardous Wastes (Proposed)

CLASS WASTE NUMBER

Miscellaneous Wastes

Pathological or Infectious Wastes	M501
Asbestos Wastes	M502
Pharmaceuticals and Drugs	M503
Pesticides	M504
POPs (Persistent Organic Pollutants)	
Pesticides	M505
Waste Electrical and Electronic	M506
Equipment (WEEE)	
	Asbestos Wastes Pharmaceuticals and Drugs Pesticides POPs (Persistent Organic Pollutants) Pesticides Waste Electrical and Electronic

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# DENR Administrative Order No. 28, Series of 1994: THE INTERIM GUIDELINES ON THE IMPORTATION OF RECYCLABLE MATERIALS CONTAINING HAZARDOUS SUBSTANCES

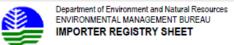
- Allows the importation of the following recyclable materials:
  - scrap metals (lead-acid batteries & metal bearing sludge)
  - solid plastic materials
  - electronic assemblies and scraps
- All importation must follow the requirements and procedures of the Basel Convention:
  - Notification and Consent between Parties
  - Wastes to be Imported must have a definite receiving facility with the essential environmental permits and clearance



#### **IMPORTATION CLEARANCE**

#### **GENERAL INFORMATION**

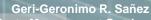
Name ( Addres	of Importer: s:					
	importer Registry					
Check	list of Information Requirements					
<u> </u>	Official Letter of Request Duly notarized Affidavit attesting to the truth, accuracy and					
	genuineness of all information, documents and records contained and attached in the application Accomplished Application Form					
	Environmental Compliance Certificate (ECC) Permits to Operate  O Air Emission Source Installation					
	<ul> <li>Wastewater Treatment Facilities</li> <li>Treatment, Storage, Disposal Facility</li> </ul>					
	Notification/Consent of Exporting Country Registered/Accredited Recycler  DENR ID No.					
	Insurance (shipment)					
	Purchase Order					
	Last Bill of Lading					
	Affidavit of Joint Undertaking of Exporter/Importer					



Form No. Sheet No.

(to be filled out in triplicate)

A. IMPORTER INFORMATION Name of Importer Address Contact Person Telephone No: Fax No Reason for Import  B. WASTE GENERATOR/SHIPPER INFORMATION Generator/Shipper Name: Facility Address (site of recyclable material generation): Generator Company Name: CITY, STATE/PROVINCE, COUNTRY Technical Contact: Phone No: Fax No: Fax No: C. RECYCLING FACILITY INFORMATION Name of Company: Address: Telephone No: Contact Person: Method of Processing: Description Process:   • Methods for handling, including collection, packaging, labeling, transportation, and route which must comfort with internationally accepted standards;	Pleas	e read in	structions before filling up this application.	
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			(Please use separate sheet if necessary)	_







## **IMPORTER REGISTRY SHEET**

Geri-Geronimo R. Sañez







Form No. Sheet No.

(to be filled out in triplicate)

Name of Importer Address Contact Person Telephone No:	IMPO	RTER INFORMATION	
Address			
Contact Person Telephone No:	Addre	229	
Pax No. Fax No			
WASTE GENERATOR/SHIPPER INFORMATION Generator/Shipper Name: Facility Address (site of recyclable material generation): Generator Company Name: CITY, STATE/PROVINCE, COUNTRY  Technical Contact: Phone No: Fax No:  RECYCLING FACILITY INFORMATION Name of Company: Address: Telephone No: Contact Person: Method of Processing: Description Process:  Method of Processing: Description Process:  Methods for handling, including collection, packaging, labeling, transportation, and route which must comfor with internationally accepted standards;  Listing of personnel who will be responsible for supervising the collection, transport and unpacking of the recyclable materials and their respective qualifications; and  Emergency response plan describing steps to be taken by parties concerned in case of spill/accident which	Telep	hone No:Fax No	
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## **IMPORTER** REGISTRY SHEET

Geri-Geronimo R. Sañez





	Recyclab Original F Amount/U Frequenc	ABLE MATERIAL IN: le Material's Name: com of the Recyclab Inits to be imported f by of the importation:  ORTATION INFORM	le Material: or the whole year:   Weekly   Monthly	Quarterly   Semi-Annual	Others, specify	
	Types of	Packaging	☐ Bulk Liqui ☐ Drum/Box	d □ Bulk Sludge □ Tanked	☐ Bulk Solid ☐ Others, specify_	
	Mode of S	Shipment	□Air	□ Sea		
F.		is to be completed p		-		eting this form are attached.
٥	olor	2. Does the recyclable material have a strong incidental odor?  No Yes, if so, Describe:  Describe:	3. Physical State® 708Fi21800:    Solid   Semi-Solid   Liquid   Powder   Other.	4. Layers  Multi-layered  Bi-Layered  Single Phase	S. Density Range:	6. Free Liquids  Yes No Volume:  %
H□<2	□<24	O 47 O 7	7.10	□ 10 < 12.5 □	12.5	nge 🗆 NA
lash Point	None	< 140°F / 60° C	140-199°F/ 60-93	°C □ > 200°F1 93°	C Closed Cup	☐ Open Cup
НЕМІС	CAL COMP	POSITION	RANGE (MIN-MAX)	2. is PCBs	(Provide concentration if NO or LESS THA	N or ACTUAL
				Sulfides	50 p	omppm
					50 p	pmppm
l'applicable	, a certified laborat	ary analysis from the country of origin	should be effected.			
		IFICATION file sheet, the import	er verifies:			
1.	This recy	clable material is not	"Hazardous Waste"	as defined by GOP:	s RA 6969 and/or int	ernational regulations.
2.	This recy	clable material does	not contain regulate	d radioactive materia	als or PCBs (Polychi	orinated Biphenyls).
3.	The recyc	clable material does r	not contain regulated	d concentration of ba	inned and controlled	pesticides.
4.		clable material does lylene chloride, 1, 2-0				ylene, trichloroethylene, nt concentration.
5.		et and the attachment on regarding known o				
6.		rter has read and un amounts have been			s of Hazardous subs	stances provided in
7.		rtical data presented ce with RA6969, if re			sting a representativ	e sample taken in

# IMPORTER REGISTRY SHEET

Geri-Geronimo R. Sañez





9. Signature:	10. Title:
10. Name (Type or Print)	12. Date:
Don	ot write below this line
ENVIRONMENTAL MANAGEMENT BUREAU  Date:	REGISTRY REFERENCE CODE
□ Accept □ Reject	
AUTHORIZED NAME: (Print or type)	
AUTHORIZED SIGNATURE:	
Title	Place EMB seal here

## **IMPORTER** REGISTRY SHEET

Geri-Geronimo R. Sañez







#### Department of Environment and Natural Resources ENVIRONMENTAL MANAGEMENT BUREAU

Form No. Sheet No.

IMPORTATION CLEARANCE FOR RECYCLABLEMATERIALS

to be filled out in triplicate

Α.	IMPORTER INFORMATION:
	Name of Importer
	Registry Reference Code
	3. Address
	Contact Person     Fax no.
	5. Telephone No Fax no
В.	WASTE GENERATOR/SHIPPER INFORMATION:
	Generator (Shipper Name)
	Facility Address
C.	RECYCLING FACILITY INFORMATION:
-	1. Name
	2. Address
D.	RECYCLABLE MATERIAL INFORMATION:
U.	
	Type of Material     Volume of Material Imported
	Volume of Malerian Imported
	Types of Packaging
	4. Intended Carriers  5. Mode of Shipment
	5. Mode of Snipment PAIR PSEA
	Port of Entry     Expected Date of Arrival
	7. Expected Date of Arrival
E.	ATTACHMENTS: To be attached to this IC are the following affidavits of undertaking specifying the following:
	<ol> <li>Liabilities for clean up operations in case of oil spill and emergencies;</li> <li>Responsibility of the exporter to retrieve/return the waste when denied entry by the</li> </ol>
	Government of the Philippines.
	Copy of insurance coverage for the shipment; and
	<ol> <li>Liabilities of parties top compensate for damage to properties and life in case of emergencies and accidents.</li> </ol>
F.	Signature Title
	Name (Type or Print) Date
	Do not write below this line
(To be fill	ed up by EMB)
☐ DISA	PPROVED:
□ APP	ROVED: Pursuant to DAO which hereby grants you clearance to imports only the above
	cited material subject to the conditions stated hereunder:
	Date Director, Environmental Management Bureau
(Place EN	MB Seal here)



#### IMPORTATION CLEARANCE FOR RECYCLABLE MATERIALS

#### APPLICATION SHEET INSTRUCTIONS:

Information on this form, is used to determine if the recyclable material is pemitted under the Republic Act No. 6969. This information shall be validated with the Registry information previously submitted and shall be held in strict confidence. Any information disclosed that are found grossly inconsistent with the Registry can be ground for non- issuance of this clearance or suspension/ cancellation of the registry.

#### PART A IMPORTER INFORMATION

- NAME OF IMPORTATION: Enter the business name of the importer.
- REGISTRYREFERENCE CODE: Enter the Registry Reference Code as designated by the Environmental Management Bureau for the Company.
- 3. ADDRESS: Enter the business address of the importer.
- CONTACT PERSON: Enter the name of the representative of the company who can respond to quiries
  and questions on the imported materials.
- TELEPHONE NO.: Enter the business phone number. FAX NO.: Enter the business fax number.

#### PART B RECYCLABLE MATERIAL GENERATOR INFORMATION

- GENERATOR (SHIPPER NAME): Enter the name of the generator of the recyclable material and the shipping firm that was contacted to transport the material.
- FACILITY ADDRESS: Enter the address of the facility where the imported recyclable materials have been generated.

#### PART C RECYCLING FACILITY INFORMATION

- NAME: Enter the business name of the firm that will recycle the imported material.
- 2. ADDRESS: Enter the business of the recycling facility.

#### PART D RECYCLABLE MATERIAL INFORMATION

- 1. TYPE OF MATERIAL: Indicate the type of recyclable material that is intended to be imported.
- VOLUME OF MATERIAL IMPORTED: Indicate the estimated volume of the recyclable material covered material covered by this particular shipment.
- TYPE OF PACKAGING: Indicate in what type of packaging will the material be shipped by checking the appropriate box.
- INTENDED CARRIERS: Indicate the shipping firm that will carry the shipment.
- 5. MODE OF SHIPMENT: Check the appropriate box in what mode the shipment shall be made.
- 6. PORT OF ENTRY: Enter the port of entry of shipment in the Philippines.
- 7. EXPECTED DATE OF ARRIVAL: Enter the expected date of arrival of the shipments.

#### PART E ATTACHMENTS

Other informational requirements requested by EMB that is to be attached to the application.

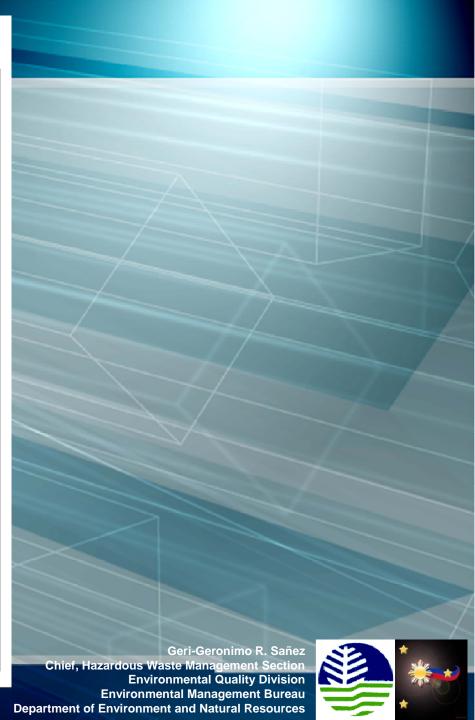




#### ENVIRONMENTAL MANAGEMENT BUREAU

	Republic	of the Phil	ippines	
Department	of Enviro	nment and	Natural	Resource

TRANSBOUNDARY MOVEN	IMENT OF WASTE - Notification				BASEL CON	IVENTION
1.Exporter (name, address)		3.Not	ification Concerning(1)	Notification Numb		PH
Contact Person Te	d: ux / Telex:	A. [ ] (I) Single B. [ ] (I) Disposal (no recovery)   [ ] (II) General Notification [ ] (II) Recovery operation   (multiple movements) [ ] Yes C. Pre authorized for a recovery   Facility (1)				
Reason for Export		(To	be completed for a recov	ery facility located	inan OECO	) state)
2. Importer (name, address)	)	4. To	tal intended No. shipments.	5. Estimated	quantity (3)	
Contact person: Te	i: x / Telex:	6. Inte	ended date(s) or period or	f shipment(s)		
7.Intended carrier(s)(name,	address) (2):	8. Dis	poser (name, address)			
Contact person: Te	el: ax / Telex:	Conta	nct person:	Tel: Fax / Tel	ex:	
10. Waste generator (name	, address( (2):	Actua	Il site ofdisposal			
Contact Person: To	el: ax/Telex:	D o	thod(s) of disposal code / R code (4) chnology Employed tached details if necessar	ry)		
Site of generation & process	5:	11. M	leans of transport(4)		12. Packag	ing type(s) (4)
13. (I) Designation & chemi	cal composition of the waste:	(II) Sp	ecial handling requiremen	nts	14. Physica	al characteristics (4)
15. Waste identification cod					17. Y. num	ber (4)
in country of export. In country of import. Customs code:	IWIC: EWC: Other (specify):				18. N. num	ber (4)
16. OECD Classification Co []amber []red []ether (attached details)	acid no.	UN S	19. (i) UN identification No. UN Shipping name:			5 (4)
20. Concerned states, code	number of competent authorities	, and s	pecific points of entry and	l exit:		
State of export			States of transit			State of import
21. Customs offices of entry Community) Entry:	y and/or departure (European	cer and		is complete and co le written contract rance of other fina	ual obligatio	best knowledge. I also ns have been entered into stees are or shall be in force
Departure:						
	22. No. of annexes attached:	_	me: ter	Signature:		
			COMPETENT AUTHORI	TIES		
24. To be completed by competent authority	-import (ECC, OECD) -transit(Basel)		25. Consent to the mov Consent given on,	vement provided b	y the compe	tent authority of (country)
Notification received on:  Arknowledgement cent on:			Specific conditions(1)	_ Yes, see bid	ock 26 overle	eaf/ annex
Acknowledgement sent on: Name of competent authori			Name of competent au Stamp and/or signature	thority,		
Stamp and/ or signature: /1) Enter V in appropriate by	v (2) Attach list if more than one	(3) Att:	ch detailed list if multiple	shinment	(4) See code	s on the reverse



	List of abbreviations us			
DISPOSAL (NO RECOVERY) (Block 9)		RECO	OVERY OPERATIO	NS (Block 9)
D1 Deposit into or onto land (e.g. landfill, D2 Land treatment (e.g. biodegradation of discards in soils, etc)	of liquid or sludgy		energy	her means to generate
D3 Deep injection (e.g. injection of pump wells, salt domes or naturally occurri		R2 R3	Solvent reclamation Recycling/reclamation	
D4 Surface impoundment (e.g. placemer		1.00		are not used as solvents
discards into pits, ponds, or lagoons	etc.)	R4	Recycling/reclama	ation of metals and metal
D5 Specially engineered landfill (e.g. pla		l	compound	e
cells which are capped and isolated the environment, etc.)	from one another and	R5	Recycling/reclama materials	ation of other inorganic
D6 Release into a water body except sea	as / oceans	R6		cids or bases
D7 Release into seas / oceans including		R7		onents used for pollution
D8 Biological treatment not specified else		l	abatement	
which results in final compounds mixt discarded by means of any of the op				onents from catalysis g or other reuses of
to D12	Crassis Hambered 5 1	"	previously used o	
D9 Physicochemical treatment not specif		R10	Land treatment re	
list which results in final compounds		B44		logical improvement
discarded by means of any of the op to D12 (e.g. evaporation, drying, col		I KIII		naterials obtained from ons numbered R1 to R10
D10 Incineration in land		R12	Exchange of wast	es for submission to any
D11 Incineration at sea	ant of containous in a	P40		numbered R1 to R11
D12 Permanent storage (e.g. emplacem mine, etc)	ent of containers in a	KIS	operation number	naterial intended any red R1 to R12
D13 Blending or mixing prior to submissi	on to any of the	1	operation in a second	
operations numbered D1 to D12		1		
D14 Repackaging prior to a submission t numbered D1 to D12	o any or the operations	1		
D15 Storage pending any of the operatio	ns numbered D1 to D12	1		
		ـــــ		
MEANS OF TRANSPRT (Block 11)	PACKAGING TYPE  1. Drum	I II NIII	MREP (Block18) At	ND UNCLASS (Block19)
R. Road	Wooden Barrel	l III	MDER (BIOCK 10) A	eo discosos (block 19)
T. Train / Rail	<ol><li>Jemcan</li></ol>	UNC	lass H Number	Designation
5. Sea	4. Box	١.	H1	
A. Air W. Inland Waterways	<ol> <li>Bag</li> <li>Composite packaging</li> </ol>	3	H3	Explosive Inflammable liquids
	7. Pressure receptacle	4.1	H4.1	Inflammable Solids
	8. Bulk	4.2	H4.2	Substances or wastes
PHYSICAL CHARACTERISTICS (Block	9. Other (specify)	-		liable to spontaneous combustion
Powdery / powder	5. Liquid	4.3	H4.3	Substances or waste
2. Solid	6. Gaseous	1		which in contact with
Viscous / paste     Studgy	7. Other (specify)	1		water emit inflamma-
4. Study		5.1	H5.1	ble gases Oxidizing
		5.2	H5.2	Organic peroxides
		6.1	H6.1 H6.2	Poisonous (acute)
		8	H8	Infectious substances Comosives
		9	H10	Liberation of toxic
		1		gases in contact with
		9	H11	air or water Toxic (delayed or
		1		chronic)
		9	H12	Ecotoxic
		9	H13	Capable by any means after disposal
				of yielding another
				material e.g. leach
		1		ate which possesses any of the
		1		characteristics listed
				above
Whitehan Black 47 1	of annual of field in Annual and the state of the	0.00	des Personal	
be found in an instruction Manual availat	of waste listed in Annex I and II of the Basel ale Secretarial, of the Basel Convention	Conver	mon, These codes,	as well as more detailed information can
26. SPECIFIC CONDITIONS OF CONSE	ENTING TO THE MOVEMENT			



## EXPORT CLEARANCE & PERMIT TO TRANSPORT HAZARDOUS WASTE/RECYCLABLE MATERIALS

#### **GENERAL INFORMATION**

Name	of Exporter:
Addres	s:
Tel. No	o./Fax No.:
Name	of Waste Generator:
Addres	s:
Tel. No	o./Fax No.:
Check	list of Information Requirements
CIICCI	anse of Information Requirements
	Official Letter of Request
	Duly notarized Affidavit attesting to the truth, accuracy and
	genuineness of all information, documents and records
	contained and attached in the application
	Accomplished Notification Form
	Notification / Consent of Importing Country
	Hazardous Waste Registration of the Generator(s)
	o DENR I.D. Number
	<ul> <li>Latest Quarterly Report</li> </ul>
	Insurance (Shipment)
	Purchase Order
	Last Bill of Lading
	Movement Document / Manifest of previous export (if
	applicable)
	Affidavit of Joint Undertaking of Exporter/Importer

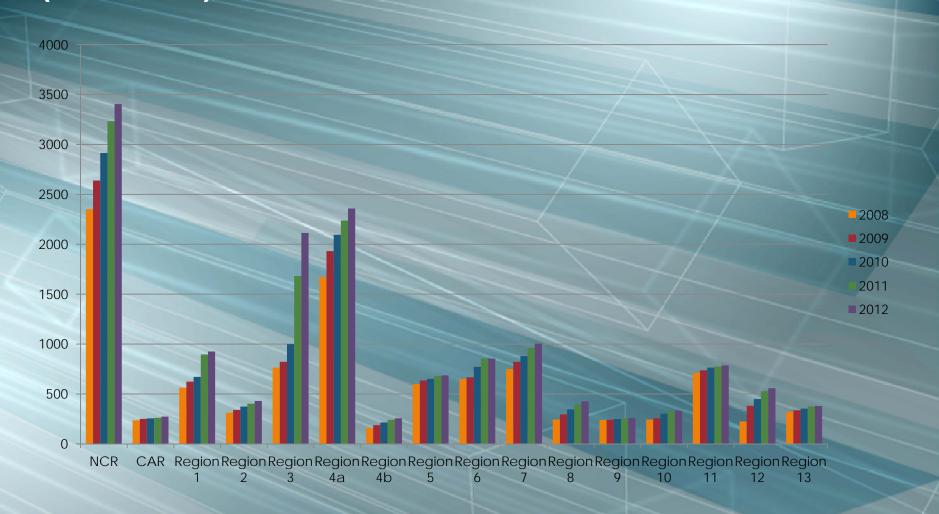


# Hazardous Waste Data and Information

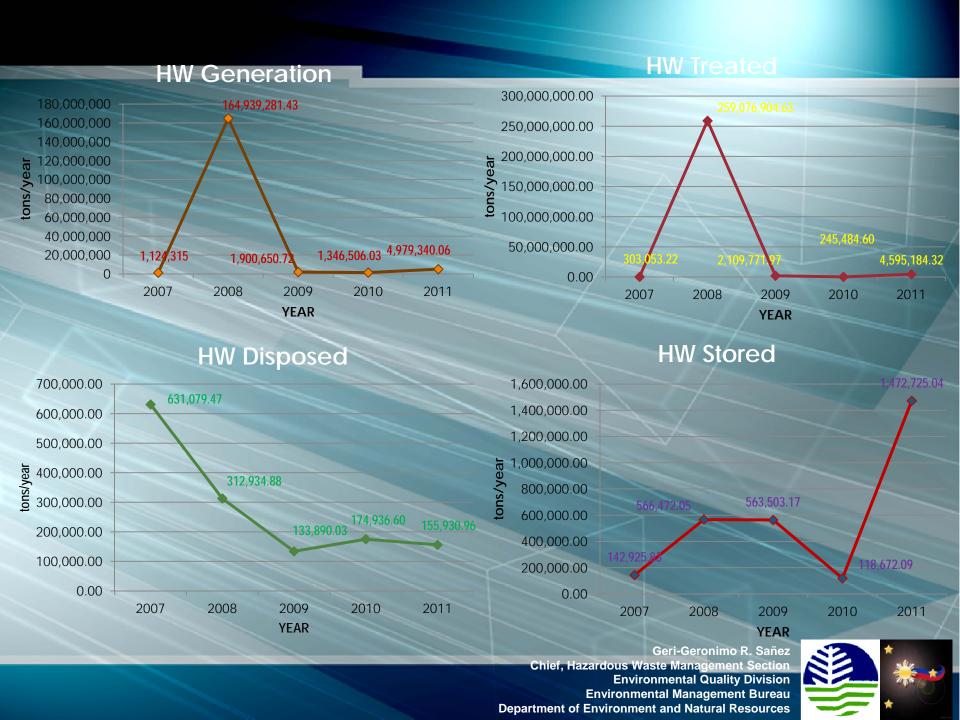
Geri-Geronimo R. Sañez



## Regional Hazardous Waste Generators Registration (2008-2012)







# IMPORTATION DATA Geri-Geronimo R. Sañez Chief, Hazardous Waste Management Section Environmental Quality Division **Environmental Management Bureau**

**Department of Environment and Natural Resources** 

## **IMPORT CLEARANCE ISSUED – January – June 2013**

MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
Electronic assemblies and scrap	Used computer monitor, CPU & used computer accessories	2,080.00	kgs	Korea
Used electrical and electronic equipment	Used TV sets	15,000.00	units	Japan
Used electrical and electronic equipment	Used computer and used monitor	36,000.00	units	Japan
Used electrical and electronic equipment	Used TV setsa	26,000.00	units	South Korea
Used electrical and electronic equipment	Used TV sets	32,000.00	units	South Korea
Electronic assemblies and scrap	Used Televisions and othe household electrical appliances	670.00	units	Korea
Used electrical and electronic equipment	Used colored TV sets	650.00	units	Korea
Used electrical and electronic equipment	Used colored TV sets	650.00	units	Korea
Used electrical and electronic equipment	Used colored TV sets	3,250.00	units	South Korea
Used electrical and electronic equipment	Used colored TV sets	1,950.00	units	Korea
Used electronic equipment	Used TV sets	24,000.00	units	Korea
Electronic assemblies and scrap	Assorted electronics component, aluminum, computer; PCB and	500.00	tons	Thailand
	battery; printed circuit board (PCB); and solder materials			
Used electrical and electronic equipment	Used TV sets	229.00	units	Japan
Used electrical and electronic equipment	Used airconditioner	37.00	units	Japan
Used electrical and electronic equipment	Used refrigerators	60.00	units	Japan
Used electrical and electronic equipment	Used CPUs	4,000.00	units	Korea
Used electrical and electronic equipment	Used monitors	3,000.00	units	Korea
Used electrical and electronic equipment	Used laptops	2,000.00	units	Korea
Used electrical and electronic equipment	Used laptops	2,000.00	units	Korea
Used electrical and electronic equipment	Used monitors	3,000.00	units	Korea
Used electrical and electronic equipment	Used CPUs	4,000.00	units	Korea
Electronic scraps	Electronic motor scrap	1,000.00	MT	Costa Rica
Used electrical and electronic equipment	Used TV sets	887.00	units	Japan
Used electrical and electronic equipment	Used mini refrigerator	31.00	units	Japan
Used electrical and electronic equipment	Used TV sets	796.00	units	Japan
Used electrical and electronic equipment	Used monitor	700.00	units	Japan
Used electrical and electronic equipment	Used CPU	600.00	units	Japan



MATERIALS	DESCRIPTION	QUANTI	SOURCE	
WINTERIN LES	BESOKII NOW	Volume	Unit	SOURCE
Used electronic equipment	Used computer parts	908.00	units	Japan
Used electronic equipment	Used monitor	2,000.00	units	Japan
Used electronic equipment	Used monitor	1,600.00	units	Korea
Used electronic equipment	Used computer parts	1,230.00	units	Korea
Used electrical and electronic equipment	Used TV sets	1,200.00	units	Japan
Used electrical and electronic equipment	Used mini refrigerators	79.00	units	Japan
Used electrical and electronic equipment	Used CRT monitors	302.00	units	Japan
Used electrical and electronic equipment	Used TV sets	601.00	units	Japan
Used electrical and electronic equipment	Used CRT monitor	399.00	units	Japan
Used electronic equipment	Used TV sets	501.00	units	Japan
Used electronic equipment	Used washing machine	12.00	units	Japan
Used electronic equipment	Used refrigerator	44.00	units	Japan
Used electronic equipment	Used refrigerator	62.00	units	Japan
Used electronic equipment	Used TV sets	969.00	units	Japan
Used electronic equipment	Used speaker	1.00	unit	Japan
Used electronic equipment	Used refrigerator	92.00	units	Japan
Used electronic equipment	Used TV sets	441.00	units	Japan
Used electrical and electronic equipment	Used colored TV sets	1,300.00	units	Korea
Used electronic equipment	Used air conditioner	550.00	units	Korea
Used electronic equipment	Used washing machine	300.00	units	Korea
Used electronic equipment	Used refrigerator	700.00	units	Korea
Used electronic equipment	Used computer	6,000.00	units	Korea
Used electronic equipment	Used monitor	12,000.00	units	Korea
Used electronic equipment	Used computer parts	300.00	units	Japan
Used electronic equipment	Used monitor	1,914.00	units	Japan
Used electroni equipment	Used TV sets	1,056.00	units	Korea
Used electronic equipment	Used TV sets	447.00	units	Japan



MATERIALS	ALS DESCRIPTION QUANTITY			SOURCE
WATERIALS	DESCRIPTION	Volume	Unit	JOURGE
Used electronic equipment	Load refrigerator	70.00	units	lonon
Used electronic equipment	Used refrigerator	41.00		Japan
Used electronic equipment	Used refrigerators		units	Japan
Used electronic equipment	Used amplifier and speaker	66.00	units	Japan
Used electronic equipment	Used TV sets	458.00	units	Japan
Used electronic equipment	Used electric piano	2.00	units	Japan
Used electrical and electronic equipment	Used digital camera	38.00	units	Japan
Used electrical and electronic equipment	Used exhaust fan	1.00	unit	Japan
Used electrical and electronic equipment	Used airconditioner	4.00	units	Japan
Used electrical and electronic equipment	Used refrigerator	21.00	units	Japan
Used electrical and electronic equipment	Electric rice cooker/ pod	275.00	units	Japan
Used electrical and electronic equipment	LCD TV	1.00	unit	Japan
Used electrical and electronic equipment	Used computer	234.00	units	Japan
Used electrical and electronic equipment	CRT monitor	665.00	units	Japan
Used electronic equipment	Used washing machines	8.00	pcs	Japan
Used electronic equipment	Used laptop	114.00	pcs	Japan
Used electronic equipment	Used refrigerator	83.00	pcs	Japan
Used electronic equipment	Used TV sets	382.00	pcs	Japan
Electronic assemblies	Used computer	110.00	units	USA
Electronic assemblies	Used televisions	48.00	units	USA
Used electrical and electronic equipment	Used electric print machine motors and parts	4.00	units	USA
Used electronic equipment	Used refrigerator	64.00	units	Japan
Used electronic equipment	Used washing machine	24.00	units	Japan
Used electronic equipment	Used TV	480.00	units	Japan
Used electronic equipment	Used TV	356.00	units	Japan
Used electronic equipment	Used washing machine	12.00	units	Japan
Used electronic equipment	Used refrigerator	75.00	units	Japan



MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
Used electronic equipment	Used TV	638.00	units	Japan
Used electronic equipment	Used CRT monitor	242.00	units	Japan
Used electronic equipment	Used TV	2,703.00	units	Japan
Used electronic equipment	Used CRT monitor	834.00	units	Japan
Used electronic equipment	Used CRT monitor	2,989.00	units	Japan
Used electronic equipment	Used TV	138.00	units	Japan
Used electronic equipment	Used TV	922.00	units	Japan
Used electronic equipment	Used TV	353.00	units	Japan
Used electronic equipment	Used refrigerator	56.00	units	Japan
Used electronic equipments	Used TV sets	15,500.00	units	Japan
Used electronic equipments	Used refrigerator	7,000.00	units	Japan
Used electronic equipments	Used aircon	5,000.00	units	Japan
Used electric equipment	Used colored TV sets	15,600.00	pcs	Korea
Electronic assemblies and scrap	Used Televisions, refirgerators, household sewing machines and other used electrical appliance	511.00	pcs	Japan
Used electrical and electronic equipment	Used electric print machine motors and parts	1.00	unit	USA
Used electrical and electronic equipment	Used electric print machine motors and parts	2.00	units	USA
Used electrical and electronic equipment	Used tv sets	700.00	units	Korea
Used electronic equipment	Used monitor	1,200.00	units	Japan
Used electronic equipment	Used computer	1,200.00	units	Japan
Used electrical and electronic equipment	Used LCD monitor	704.00	units	Japan
Used electrical and electronic equipment	Used rice cooker	258.00	units	Japan
Used electrical and electronic equipment	Used CRT monitor	525.00	units	Japan
Used electrical and electronic equipment	Used electric pod	84.00	units	Japan
Used electrical and electronic equipment	Used computer	353.00	units	Japan
Used electrical and electronic equipment	Used laptop	530.00	units	Japan
Used electrical and electronic equipment	Used computer monitor	128.00	units	Japan



MATERIALS	DESCRIPTION	QUANTI	ΙY	SOURCE
		Volume	Unit	
Used electrical and electronic equipment	Used computer parts	214.00	units	Japan
Used electrical and electronic equipment	Used laser printer	100.00	units	Japan
Used electrical and electronic equipment	Used refrigerator	32.00	units	Japan
Used electrical and electronic equipment	Used TV	213.00	units	Japan
Used electronic equipment	Used colored TV sets	15,600.00	pbs	Korea
Used elctronic equipment	Used colored TV sets	15,600.00	pcs	Korea
Used electronic and electrical products	Graphic card	600.00	units	Korea
Used electronic and electrical products	Motherboards	1,650.00	units	Korea
Used electronic and electrical products	Mouse	2,000.00	units	Korea
Used electronic and electrical products	Power supply	1,000.00	units	Korea
Used electronic and electrical products	Keyboard	2,000.00	units	Korea
Used electronic and electrical products	Used computer (LCD)	700.00	units	Korea
Used electronic and electrical products	Hard disk	2,000.00	units	Korea
Used electronic and electrical products	Notebooks	100.00	units	Korea
Used electronic and electrical products	CCTV (camera)	40.00	units	Korea
Used electronic and electrical products	DVD	250.00	units	Korea
Used electronic and electrical products	LAN card	1,500.00	units	Korea
Used electronic equipment	Used colored TV sets	19,500.00	pcs	Korea
Used electronic equipment	Used washing machine	5.00	units	Korea
Used electronic equipment	Used airconditioner	10.00	units	Korea
Used electronic equipment	Used refrigerator	8.00	units	Korea
Used electronic equipment	Used computer	2.00	units	Korea
Used electrical and electronic equipment	Used TV sets, mini refrigerators, household sewing machines and othe	342.00	units	Japan
	used electrical appliances			
Used electrical and elecetronic equipment	Used TV sets, mini refrigerator, household sweing machines and other	3,040.00	units	Japan
	used electrical appliances			



MATERIALS	DESCRIPTION	QUANTITY		SOURCE
<u> </u>		Volume	Unit	
Used electrical and electronic equipment	Used TV sets	10,810.00	kgs	Japan
Used electronic equipment	Used copier machines	100.00	pcs	Singapore
	Used TV	650.00	pcs	Korea
Used electronic equipment	Used TV	411.00	units	Japan
Used electronic equipment	Used washing machine	24.00	units	Japan
Used electronic equipment	Used refrigerator	26.00	units	Japan
Used electronic equipment	Used CRT tube	578.00	units	Japan
Used electronic equipment	Used TV	3,318.00	units	Japan
Used electronic equipment	Used TV	470.00	units	Japan
Used electronic equipment	Used refrigerator	47.00	units	Japan
Used electronic equipment	Used colored TV sets	650.00	pcs	Japan
Used electrical and electronic equipment	Used computer sets and other used electrical appliances	6,429.00	units	Laos
Used electrical and electronic equipment	Used colored TV	1,300.00	pcs	Korea
Used electrical and electronic equipment	Used colored TV	2,600.00	pcs	South Korea
Used electrical and electronic equipment	Used colored TV	2,600.00	pcs	South Korea
Used electrical and electronic equipment	Used colored TV	1,950.00	pcs	South Korea
Used electronic equipment	Used TV sets, refrigerators, washing machines, air conditioners	557.00	units	Japan
Used electronic equipment	Used TV sets, used refrigerators, used washing machines and used air	470.00	units	Japan
	conditioners			
Used electronic equipment	Used TV sets	1,805.00	units	Japan
Used electronic equipment	Used CRT monitor	998.00	units	Japan
Used electronic equipment	Used TV	2,884.00	units	Japan
Used electronic equipment	Used television	700.00	units	Japan
Used electronic equipment	Used TV	786.00	units	Japan
Used electric equipment	Used television	832.00	units	Japan



MATERIALS	DESCRIPTION	QUANTI	QUANTITY	
6		Volume	Unit	
Used electric equipment	Used CRT monitor	129.00	units	Japan
Used electronic equipment	Used television	757.00	units	Japan
Used electronic equipment	Used refrigerator	39.00	units	Japan
Used electronic equipment	Used television	346.00	units	Japan
Used electronic equipment	Used refrigerator	78.00	units	Japan
Used electronic equipment	Used television	660.00	units	Japan
Used electronic equipment	Used CRT monitor	306.00	units	Japan
Used electronic equipment	Used television	754.00	units	Japan
Electronic and electrical scraps	Electronic and electrical products	4,536.00	pcs	USA

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Chief, Hazardous Waste Management Section Environmental Quality Division





MATERIALS	DESCRIPTION	QUANTITY		SOURCE
WW WEIGH 128		Volume		JOURGE
Electronic assemblies and scrap	Solder dross, solder paste and tuner	500	tons	Thailand
Electronic assemblies and scrap	Electronic assemblies (used television sets)	700	units	Japan
Used and surplus computer parts and accessories	LCD 15", 17",19", CPUs P4 3.0, 3.2 ghz, HDD (80GB, 120GB, 160GB, 250GB IDE), (80GB, 120GB, 160GB, 250GB, 320GB, 500GB SATA), 478& 775 Motherboards, and 400 watt power supply	8500	kgs	Korea
Used and surplus computer parts and accessories	LCD 15", 17", 19", CPUs P4 3.0, 3.2 ghz, HDD (80GB, 120GB, 160GB, 250GB IDE), (80GB, 120GB, 160GB, 250GB, 320GB, 500GB SATA) 478&775 Motherboards, and 400 watt power supply	5840	kgs	Korea
Used and surplus computer parts and accessories	Used Laptops	2000	units	Korea
Used and surplus computer parts and accessories	Used Monitors	3000	units	Korea
Used and surplus computer parts and accessories	Used CPU's	4000	units	Korea
Used electrical and electronic equipment	Used Laptops	2000	units	Korea
Used electrical and electronic equipment	Used Monitors	3000	units	Korea
Used electrical and electronic equipment	Used CPUs	4000	units	Korea
Used electrical and electronic equipment	Used CPUs	4000	units	Korea
Used electrical and electronic equipment	Used Laptops	2000	units	Korea
Used electrical and electronic equipment	Used Monitors	3000	units	Korea
Used electrical and electronic equipment	Computer parts/accessories	20000	pcs	Korea
Used electrical and electronic equipment	LCD monitors	12000	pcs	Korea
Used electrical and electronic equipment	Used CPUs	10000	pcs	Korea
Used electrical and electronic equipment	Used speakers	5	units	Japan
Used electrical and electronic equipment	Used musical keyboards	10	units	Japan
Used electrical and electronic equipment	Used refrigerators	40	units	Japan
Used electrical and electronic equipment	Used TV sets	316	units	Japan



MATERIALS	DESCRIPTION	QUANT	ITY	SOURCE
		Volume	Unit	
Electronic Scraps and Assemblies	Televisions	97	units	Japan
Electronic Scraps and Assemblies	Refrigerators	15	units	Japan
Electronic Scraps and Assemblies	Washing Machine	16	units	Japan
Electronic Scraps and Assemblies	Other Electric Equipment	34	units	Japan
Electronic Scraps and Assemblies	Electronic assemblies (Used Television sets)	935	units	Japan
Electronic Scraps and Assemblies	Electronic assemblies and electrical appliances	437	units	Japan
Electronic assemblies and scrap	Electronic assemblies and electrical appliances	1,460	tons	United Kingdom
Electronic Parts and Assemblies	Electronic parts and assemblies containing Lead and other metals	2,000	MT	New Zealand
Electronic Scrap	Assorted Scrap Electronic parts and materials	500	MT	Thailand

MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
Used Electrical and Electronic Equipment	Used CPU's	4,000	units	Seoul, Korea
Used Electrical and Electronic Equipment	Used Monitors	3,000	units	Seoul, Korea
Used Electrical and Electronic Equipment	Used Laptops	2,000	units	Seoul, Korea
Used Electrical and Electronic Equipment	Used Monitors	3,000	units	Seoul, Korea
Used Electrical and Electronic Equipment	Used CPU's	4,000	units	Seoul, Korea
Used Electrical and Electronic Equipment	Used Laptops	2,000	units	Seoul, Korea
Electronic Assemblies and Scrap	Electronic Assemblies (Used television sets)	765	units	Japan



MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
Electrical and electronic assemblies	used mobile phones	9,000	pcs.	USA
Electrical and Electronic Assemblies	used mobile phone parts	50,000	pcs.	Korea
Electrical and Electronic Assemblies	used mobile phones	300,000	pcs.	Hongkong
Electrical and Electronic Assemblies	used mobile phones parts (LCD)	50,000	pcs.	Hongkong
Electrical and Electronic Assemblies and Scrap	assorted electrical and electronic components (A1180)	1,100	tons	Thailand
Electronic Scraps	used computer sets	10,000	sets	Seoul, Korea
Scrap Electronic and Electrical Appliances	Used monitors	12	pcs	Japan
Scrap Electronic and Electrical Appliances	Used television sets	10	pcs	Japan
Used electrical and electronic equipment	Used computer parts (motherboard, hard disk, memory)	40	boxes	Korea
Used electrical and electronic equipment	Used monitors (2-3 pcs/box)	500	boxes	Korea
Used electrical and electronic equipment	Used dektop computers (1pc/box)	560	boxes	Korea
Used Electrical and Electronic Equipment	used CPUs	290	boxes	Korea
Used Electrical and Electronic Equipment	used monitors	1,008	boxes	Korea
Used Electrical and Electronic Equipment	computer parts and accessories	58	boxes	Korea

MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
electrical and electronic assemblies or scraps (B1110)	assorted electrical and electronic components	200	MT	Thailand
electronic scraps	used computer sets	8,000	sets	Korea
used electrical and electronic equipment	used CPUs	3,000	units	Korea
used electrical and electronic equipment	used laptops	2,000	units	Korea
used electrical and electronic equipment	used monitors	2,500	units	Korea
used electronics and electrical appliances and equipment	used game machine	112	pcs	Japan
used electronics and electrical appliances and equipment	used LCD monitor	88	pcs	Japan
used electronics and electrical appliances and equipment	used PC	23	pcs	Japan
used electronics and electrical appliances and equipment	used PC parts	1	рс	Japan
used electronics and electrical appliances and equipment	used televisions	784	pcs	Japan
used electronics and electrical equipment and appliances	used television sets	409	pcs	Korea
used electronics and electrical equipment and appliances	used television sets and computers	3,000	pcs	Japan

MATERIALS	DESCRIPTION	QUAN	TITY	SOURCE
		Volume	Unit	
Scrap Electronics	Used computers	8,000	units	South Korea

### **IMPORT CLEARANCE ISSUED - 2006**

MATERIALS	DESCRIPTION	QUANTITY		SOURCE
		Volume	Unit	
Electronic Scraps	Assorted electronic components/plastics/solder paste	2,000	MT	Thailand

MATERIALS	DESCRIPTION	QUAN	TITY	SOURCE
		Volume	Unit	
Plastic/Electronic Scrap	Recyclable VHS tapes	21.3	MT	Korea
Scrap Electronics	Used Computers units with accessories	240	Sets	Korea
Scrap Electronics	Used refrigerators	20	pcs.	Japan
Scrap Electronics	Used TV	66	units	Japan
Scrap Electronics	Used TV sets	472	pcs.	Japan





TYPE OF MATERIALS	QUANT	TTY	DESTINATION	
TIPE OF MATERIALS	Volume	Unit	DESTINATION	
solder dross, microsolder balls, lead frame scrap (partial solder plating),	1,000.00	MT	Japan	
Ag paste syringe and bottles, electronic assemblies scrap and ferrous			·	
waste scrap				
Scrap/ obsolete electronic components	400,000.00	kgs	Japan	

Geri-Geronimo R. Sañez

Chief, Hazardous Waste Management Section Environmental Quality Division



TYPE OF MATERIALS	QUAN	TITY	DESTINATION	
TIPE OF WATERIALS	Volume	Unit	DESTINATION	
Crushed printed circuit boards	840.00	tonnes	Korea	
Electrical Parts Scrap	2,400.00	MT	Korea	
Printed Wiring Board (PWB)	2,000.00	tons	Japan	
Scrap/obsolete electronic components	80.00	MT	Korea	
Used electrical and electronics parts and accessories (computer and mobile phones, lithium-ion batteries)	300,000.00	kg	Singapore	
Used electrical and electronics parts and accessories (networking eqipment, handphone parts and accessories)	800,000.00	kgs	Singapore	
Used Metal Electronic Materials	20,000.00	kgs	Singapore	
Used Office Equipment (copier, printers, facsimile)	90,000.00	kgs	Thailand	
Used Supplies containing residual toner	80,000.00	kgs	Thailand	
Used toners and ink cartridges	200,000.00	kgs	Singapore	

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Chief, Hazardous Waste Management Section Environmental Quality Division



TYPE OF MATERIALS	QUANT	TTY	DESTINATION	
TTPE OF WATERIALS	Volume	Unit	DESTINATION	
Electronic components	100	MT	Korea	
Printed Wiring Board (PWB)	1,000	tons	Japan	
Printed Wiring Board (PWB) with and without components	100	MT	Korea	
Scrap computer monitors	50	MT	Korea	
Scrap Printed Wiring Board (PWB) (Y22)	1,000	tons	Japan	
Used electrical and electronic parts & accessories (networking equipment, hand phone parts and accessories)	300,000	kgs	Singapore	
Used Xerox Office Equipment	90,000	kgs	Thailand	
Used Xerox Supplies containing residual toner	80,000	kgs	Thailand	

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TYPE OF MATERIALS	QUANI	TITY	DESTINATION
TIPE OF WATERIALS	Volume	Unit	DESTINATION
Computer monitors	30	MT	Korea
Electronic components	100	MT	Korea
Electronic scrap and wastes containing metals	1,000	MT	Japan
Printed Wiring Board (PWB) with and without components	100	MT	Korea
Used electrical and electronic parts and accessories (networking equipment, handphone parts and accessories)	300	tons	Singapore
Used electrical and electronics parts and accessories (networking equipment, handphone parts and accessories)	800,000	kgs	Singapore
Used toners and ink cartridges	150,000	kgs	Singapore
Used xerox office equipments	90,000	kgs	Thailand
Used Xerox Supplies (Toner/drum cartridge containing residual toner)	80,000	kgs	Thailand

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TYPE OF MATERIALS	QUANT	ITY	DESTINATION	
TTPE OF WIATERIALS	Volume Unit		DESTINATION	
electric assembly and scrap	1,000	MT	Japan	
Scrap Printed Wiring Board (PWB) (Y22)	1,000	tons	Japan	
Scrap printed wiring boards (Y31)	1,000	tons	Japan	
semiconductor scrap with solder/lead	10,500	kgs.	Belgium	
Used electrical/electronic parts and accessories (A1180)	800	tons	Singapore	
Used xerox equipment (printer, copier, facsimile)	50,000	kgs	Thailand	
used xerox supplies (toner/drum cartridge containing residual toner)	84,000	kgs.	Thailand	

# **EXPORT GLEARANCE ISSUED - 2008**

TYPE OF MATERIALS	QUANT	ITY	DECTINIATION	
TYPE OF MATERIALS	Volume	Unit	DESTINATION	
printed wiring board (PWB) edges/trimmings	70,000	kgs	South Korea	
printed wiring board (PWB) with and without components	100,000	kgs	South Korea	
scrap computer	30,000	kgs	South Korea	
scrap printed wiring board (PWB) (Y22)	1,000,000	kgs	Japan	
scrap printed wiring board (PWB) (Y31)	10,000	kgs	Japan	
used electrical/electronic parts and accessories (A1180)	150	tons	Singapore	
used xerox supplies containing residual toner	84,000	kgs	Thailand	



TYPE OF MATERIALS	QUANT	ITY	DESTINATION	
TYPE OF WIATERIALS	Volume	Unit	DESTINATION	
Electronic Assembly and Ferrous Waste Scrap (D406/D499)	600	tons	Japan	
Printed Circuit Board (PCB)	50,000	kgs	Japan	
Printed wiring board (with or without components)	100,000	kgs	South Korea	
PWB trimmings	70,000	kgs	South Korea	
Scrap computer equipment	5,000	kgs	South Korea	
Scrap Printing Wiring Board(PWB)(Y22)	1,000,000	kgs	Japan	
Used Xerox Office Equipment	50,000	kgs	Thailand	

### **EXPORT CLEARANCE ISSUED - 2006**

TVDE OF MATERIALS	QUAN	TITY	DECTINIATION	
TYPE OF MATERIALS	Volume	Unit	DESTINATION	
Assorted electronic components/plastics/solder paste	2,000	MT	Thailand	

TVDE OF MATERIALS	QUANT	ITY	DESTINATION	
TYPE OF MATERIALS	Volume	Unit	DESTINATION	
Printed Circuit Board edges/trimmings, Printed circuit board with components and liquid crystal display	86,500	KGS	Korea	
Printed Wiring Boards	800,000	KGS	Japan	
Used xerox supplies (toner/drum cartridge, reclaim bottle, CRU) containing residual toners	84,000	KGS	Thailand	



# SUMMARY OF E-WASTE RECYCLERS AND IMPORTERS

		YEAR										Total			
1	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	
TSD															
Facility	19	14	4	3	0	1	2	2	1	3	0	1	0	0	
				·											
Importer	9	2	4	8	5	1	2	3	3	4	1	2	1	1	46

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# Refurbishing Shops of Used EEE







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# Refurbishing Shops of Used EEE



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# Shops selling 2<sup>nd</sup> Hand or Used EEE





# Shops selling 2<sup>nd</sup> Hand or Used EEE



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TELEVISION · REFRIGERATOR · WASHING MACHINE · AND MANY MORE...



### PROGRAMS/PROJECTS/STUDIES

- Philippine Studies
- Regional Programs and Projects
- Basel Convention and Stockholm Convention

# Importation, Reuse and Disposal of Used **Electronic Appliances in the Philippines**

### Melissa May F. Cardenas

Environmental and Sustainable Agri-Planners and Managers, Inc. (SAGIP-Environment)

Geri-Geronimo R. Sañez

Chief, Hazardous Waste Management Section

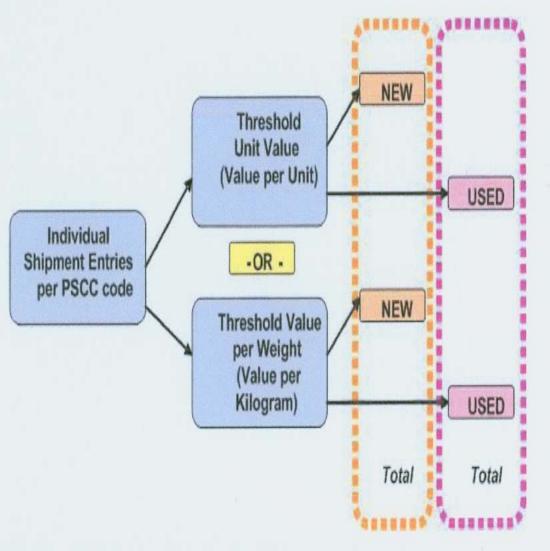
**Environmental Quality Division** 

**Environmental Management Bureau Department of Environment and Natural Resources** 



Figure 1.

Importation data processing using threshold values





Chief, Hazardous Waste Management Section

**Environmental Quality Division** 







Table 2. Unit price for distinction of Brand New vs. Used EEE

EEE Type	Brand-new		Second-hand		
	Price/unit	Price/kg	Price/unit	Price/kg	
Televisions (all types)	\$25-800+	\$3-11	\$2-7	\$0.11-2.9	
Refrigerator	\$100 up	\$2 up	\$10-85	\$0.2-1.9	
Personal Computer	\$300-7500	\$2-820	\$26-200	\$2 less	
Washing Machines	\$ 61.9 - 144	\$ 8-10+	\$ 2-6	\$0.3 - 2+	
Air conditioners	\$ 88-425	\$ 8-12	\$ 4-12	\$ 0.2 – 3+	

Source: Foreign Trade Statistics Section, National Statistics Office. March & May 2007



Figure 2.

Distribution of Imported

Used EEE Types by Weight

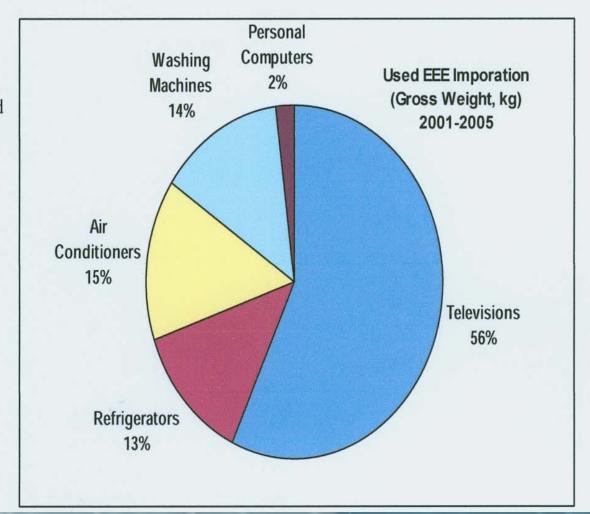




Figure 6.

Flow of Used EEHA by Port of Entry, 2002-2005

Source: BIS data processed by SAGIP-Environment

Used EEHA/ EEE E-scrap/ E-waste Exporters Importers Export for treatment Collection of Defective units **EEE Parts** SPECIALIZED Local Recyclers: PARTS Electronics Main Office Televisions & Monitors Local Recyclers: Broken Return of Defective units Plastics and Metals Recovery GENERAL EEHA/ EEE Shops Picture Tube/ CRT COMPONENTS Recovery LCD Screen **Bulky Metal** components Recovery Junkshops or Material Disposed\_ Recovery Facilities Refurbishment, Hard Plastic Casings Released Refrigerators & Air Repair, Conditioners Reuse of Re-injected Electric Motor Functioning Refrigerant **Parts** Compressor Copper and other Wires Insulation Materials Circuit Board, Transistors, Capacitors, other E-parts Personal Computers Recovery Computer Selling of peripherals refurbished/ Reuse repaired items Used EEHA/ EEE Shops for Electronic/ Consumers Computer Parts Disposal Municipal Waste Dumpsite -Disposal-Collectors Storage and eventual disposa Summarized EEE flow based on key informant interviews conducted by SAGIP-Environment in 2006 to 2007 under studies funded by the Japanese Ministry of Economics, Trade and Industry (METI) and the Japan International Cooperation Agency (JICA)

Figure 7. General Flow of Used EEHA: Importation, Repair, Recovery & Disposal



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Environmental Quality Division
Environmental Management Bureau

Department of Environment and Natural Resources



GTZ -AHT-Support Project
Solid Waste Management for Local Government Units
(SWM4LGUs)

# Gathering Basic Data on Electronic Waste in Metro Cebu: A Case Study on the Philippine Setting

Presented by:

Engr. Consolacion I. Sumalinog STE ,GTZ-AHT

Geri-Geronimo R. Sañez



### Metropolitan Cebu E-Waste Situation and Data Research

### Metro-Cebu Household Generation per Year

(Cebu, Mandaue, Lapu-Lapu, Talisay)

Commodity	Average Weight, kg	Medium Life Span, yr	Obsolete Rate, yr/HH	# of Household	# of Eqpt/ HH	Generation/yr. T/yr
Computers	27.00	10	8	317,855	1	6,866
Televisions	24.00	15	15	317,855	2	15,257
Refrigerators	30.00	10	10	317,855	1	9,536
Cellular Phones	0.10	5	3	317,855	3	57
FixedLines	0.20	10	8	317,855	1	51
Tube Lights	0.30	2	2	317,855	2	191
Bulbs	0.10	1	3	317,855	3	477
Total					4	32,434

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### Major Players/ Sector Category

Households/Commercial Business/Institutions

#### **Management and Practices**

- still resort to dumping as a common mode of garbage disposal even electronic wastes
   (Data from WACS Mandaue & Cebu)
- Households keep obsolete or defective appliances and gadgets
- Waste pickers collects, sells & disposes garbage ewastes
- MRF of Lapu-Lapu City is now operational
- none to low protection in handling e-waste

### Major Players/ Sector Category

#### **Management and Practices**

**Industry Generators** 

- Data collection is reflected in PCO Self Monitoring Report (Mercury Bulbs) as disposed thru accredited TSD
- MEZ 1 reported 3.22T total generation of busted bulbs (Data from MEZ 1 Annual Report2009),
- Households and other Commercial, Business Enterprises and Academe still considers Busted Bulbs as part of Garbage
- Most industries enters into lease contracts on IT & Telecommunication suppliers/service providers including upgrading & disposal at most every 2 years
- Industries in Cebu classify e-wastes under hazardous scraps and contracted with Buyers/Contractors

### Major Players/ Sector Category

Scrap Buyers/Contractors/ Repairers/ Refurbishers/ Recyclers

#### **Management and Practices**

- Data is based on mixed e-waste with IT & Telecommunication equipment topped the list followed by HH equipment and Consumer Goods
- Generally, scrap buyers conduct site dismantling but with minimum awareness on risk/hazard of specific waste
- Classifies dismantled wastes into plastics, metals, saleable to non-saleable
- Dismantled/recovered parts usable for same purpose goes to repairer for refurbishing registered or non-registered recyclers/repairers/refurbishers/recycler/ treater
- residues including busted bulbs with no commercial value ends up in illegal dumping or burying as means of disposal

### Major Players/ Sector Category

Scrap Buyers/ Contractors/ Repairers/ Refurbishers/ Recyclers

#### **Management and Practices**

- some key informants data and monitoring responses are based on sales and purchases in bulk, memory recall or trending
- Informants are aware of hazards of e-wastes. Receiving are common activity of workers but handling & protection is not given priority
- This sector normally cannot/will not give data; Some are not listed in EMB Region 7

#### **Electronic Waste Recycling Challenges in Metro Cebu**

Translating the Gaps into Project Management Tool

#### **SWOT Analysis**

Strengths	Weaknesses	Opportunities	Threats
<ul><li>low cost of service</li><li>competent and professional</li></ul>	<ul> <li>high cost of investment</li> <li>lack of access to e-waste recycling technologies</li> </ul>	<ul> <li>Additional profit and growth</li> <li>foreign technical assistance</li> <li>on technologies</li> </ul>	<ul> <li>emerging recycling and treatment facilities</li> <li>presence of scrap buyers of</li> </ul>
membership and personnel	nip and	e-wastes and informal sectors	
<ul> <li>accessibility to clients/customers</li> </ul>		regulations	Social Acceptability
<ul> <li>DENR-EMB/ Businessmen/Stock- holder's Support</li> </ul>	limited operation     personnel	access to funding institutions	Insufficient regulation on e- waste
Maintained Data and Recording System	<ul> <li>Accessibility and Cost of Final disposal of residual wastes</li> </ul>		Political Ascendancy
			<ul> <li>Vulnerability of location to risks and hazards</li> </ul>



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# NETWORKING AND AWARENESS

### **National Perspectives**

A PRESENTATION BY

#### MAJOR NICOMEDES P. ENAD

CHIEF

ENVIRONMENTAL PROTECTION UNIT
ENFORCEMENT & SECURITY SERVICE
BUREAU OF CUSTOMS
PHILIPPINES





# NETWORKING

National

International

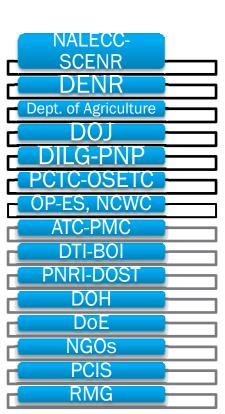
Customs Focal Point



Internal

#### **National**

#### **International**



Customs Focal Point



#### Internal

Dep.Com. IG

Dep.Com. EG

Dep.Com. AOCG

Director, ESS

Director, CIIS

Director, IAS

**UNEP-ROAP WCO-ROAP** Interpol **UNODC** World Bank **UNIDO UNDP USDOE USAID** Basel Conv. Secretariat Stockholm Conv. Secretariat Montreal Conv. Secretariat **NGOs District Collectors.** 

17 Collection Districts

XIP

Value Classification

Division

# AWARENESS

Internal



Customs Focal Point

**National** 

International

#### **ITDD-IAG**

• Import Assessment Service

CIIS

## Internal

Customs Focal Point

#### 17 Collection Districts

• 34 Sub-ports of Entry

### **National**

International

**NALECC-SCENR** 

• DENR

Dept. of Agriculture

DTI-BOI

• DOH

and others

WCO-ROCB

environet

**RILO-AP** 

Interpol

**UNEP-CAP** 

and others



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#### Ongoing DENR-EMB Projects

- UNIDO-GEF-DENR: "Non-Com POPs Project" Global Program to Demonstrate the viability and
  removal of barriers that impede adoption of available
  non-combustion technologies for destroying
  Persistent Organic Pollutants (POPs)in the
  Philippines
- WB-GEF-DENR: "Integrated Persistent Organic Pollutants (iPOPs) Management Project"
- ADB-DOE: "Philippine Energy Efficient Project" (PEEP)



## **Concerns and Challenges**

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Department of Environment and Natural Resources





#### **Policy Concerns**

- At present, RA 6969 does not have provisions on the following:
  - Direct provision classifying E-Wastes as Hazardous Waste
  - Contaminated sites assessment inventory, and
  - Remediation and Clean-up Standards
  - Extended Producers' Responsibility (EPR) on products and commodities containing hazardous substances not in place

#### How are these concerns being addressed?

- Proposed policy revising the present Procedural Manual on Hazardous Waste Management to specifically include Waste Electrical and Electronic Equipment (WEEE) as one of the prescribed hazardous wastes. WEEE from households collected by Materials Recovery Facility will now be regulated to ensure that these do not end up in municipal sanitary landfills.
- A proposed Guidelines on the Environmentally Sound Management of Waste Electrical and Electronic Equipment (WEEE) will be drafted by next year.
- A Joint policy between DENR-DOE on the Lighting Industry Waste Management Guidelines has been issued in September 2013 implementing EPR for lighting products. This could be replicated for WEEE.

### Challenges

- Approval of House Bill [HB] (consolidated) 4812 substituting HB #7: "The Philippine Hazardous and Radioactive Waste Management Act of 2011"
- Successful implementation of DENR-EMB projects addressing health risk and contaminated sites assessment resulting to issuance of DENR Policy and Standards
- Strengthening regulation of Recycling (Collection)
  Events conducted by LGUs (Makati and
  Mandaluyong), Ecozones and Malls



## Challenges (cont.)

the challenge of importers importing into the country second-hand electrical and electronic equipment without securing Import Clearance from EMB



# Measures to ensure the stable supply of WEEE to the E-Waste TSD Facilities

- Implement EPR, not only for lighting products but other types of WEEE
- Strict enforcement of policies on hazardous wastes including WEEE
- Strengthen coordination with other government agencies such as the Bureau of Customs to prevent illegal shipments of second-hand EEE
- Enhance IEC activities on the hazards posed by WEEE on human health and the environment



# Measures to ensure the stable supply of WEEE to the E-Waste TSD Facilities

The Philippines has not ratified the Basel Ban Amendment because it will affect local industries that recover/recycle HW, among others as, recovery of precious and non-precious metals (lead, gold, selenium, tellurium, etc.), production raw materials (plastics for construction or sanitation pipes and tarpaulins; scrap metals for foundries and sand blasting (slag); and for cement production (slag & fly-ash), alternative fuel (used oil); and electronic assemblies and scraps for direct re-use and remanufacturing.

## **Maraming Salamat Po!**





# THANK YOU VERY MUCH FOR YOUR ATTENTION

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