Asia Pacific Overview



Russ Martin Chief Executive Officer

Conference on Canadian Stewardship

Banff, Canada

1 October, 2015



Sustaining Members include









Corporate Members Include





































Government Members Include





Ministry of Environment













Organisation/Local Government/Industry Association/Other Members Include



































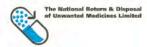












GLOBALPSC ADVISORY GROUP

David Lawes David Lawes & Associates BC Used Oil Management

Association



Jay Illingworth Electronic Products Recycling Association (EPRA)





Mark Kurschner Product Care Association



Richard Barnish **DHL** Envirosolutions



Joachim Quoden **Extended Producer** Responsibility Alliance (EXPRA) Joachim Quoden Law Firm





John Gertsakis Infoactiv Logistics Solutions



Melissa Walsh Innes Innes & Company LLC



Cheri Scholtz PET Recycling Company (PETCO)



Kylie Hughes Queensland Department of Environment and

Australian Battery

Helen Lewis Research

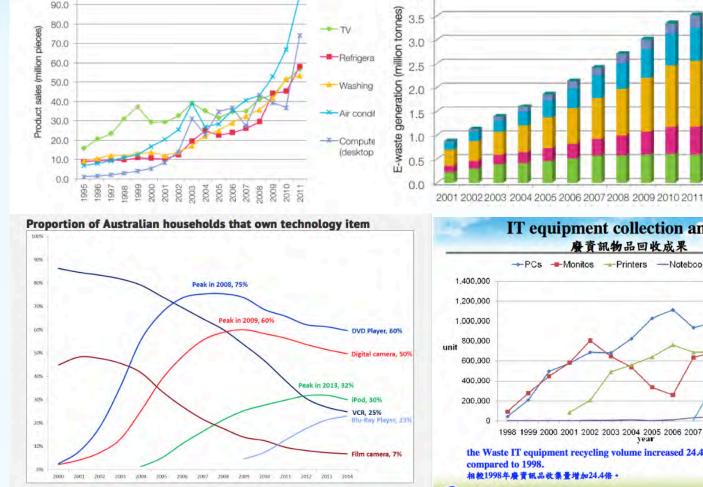


Dana Peterson New Zealand Ministry for the Environment





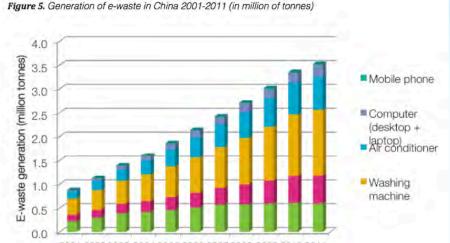
Electrical and Electronic Equipment (EEE)

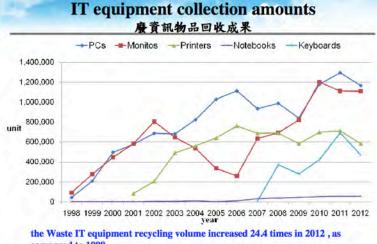


Source: Roy Morgan Single Source, January 20000 - December 2014. Average annual sample n = 54,034 Australians 14+

Figure 3. Sales of major electrical and electronic equipment in China (1995-2011)

100.0



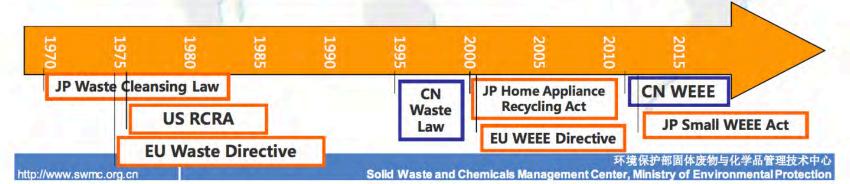




NEP

Progress of E-waste Regulations in China

Year	Legislation				
1995, 2005	Law on the Prevention and Control of Environmenta Pollution by Solid Wastes				
2002, 2012 Law on Clean Production Promotion					
2006	China RoHS (by MIIT)				
2008	Measures on E-waste (by MEP)				
2009	Law on Circular Economy Promotion				
2011-2012	China WEEE Regulation and its supporting policies				





MEP

E-waste Legislation System

Clean Production Promotion Law Solid Waste Pollution Prevention Law Circular Economy Promotion Law

Regulations on the Management of the Recovery and Treatment of Waste Electronic and Electrical Products

China RoHS

Renewable Resource Collection Measures

WEEE Collection Measures (draft) E-waste Pollution Prevention and Control Measures

WEEE Treatment Facility Qualification
Measures

WEEE Treatment Fund Management Measure

Design, Manufacture, Importation

Consumption

Collection

Transport

Dismantle, Recycle, Disposal

Catalogue, Muli-collection, Centralized Treatment, Development Plan, Qualification Licensing, Treatment Subsidies

Evolution of Producer Responsibility in Taiwan

Year	Features	Milestone
1998 - now	回收基管會成立(公辨公營) The eight recycling funds are administered by EPA Recycling Fund Management Board	 1998/03: Home appliances listed as Regulated Recyclable waste (RRW) by EPA 1998/06: Subsidize the waste appliances storage site (44 companies with 67 sites) 1998/06: Waste IT equipment collection station (Subsidize the Public) 2002: EPA promulgated standards for the methods and facilities for the collection, storage, and recycling of waste appliances and waste IT <i>equipment</i> 2007: Electrical fans and keyboards were listed as RRW by EPA 2011: EPA promulgated waste home appliance takeback system



Taiwan RRW – Product Fees, Subsidized Collections

Regulated recyclable waste (RRW)

公告應回收廢棄物

容器 Containers

1. 鐵容器 Iron container

















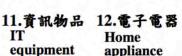






9.輪胎 Tire

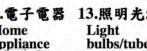


















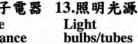
8.機動車輛 Automobile\Motorcycle



















Evolution of E-waste Recovery Options

Changing costs / availability of manual labour

Formalisation of 'informal' collections and reprocessing

Need to ensure recycling through responsible reprocessors

Potential for 'micro-recycling' and smart city growth

Importance of third-party certification









New Zealand Product Stewardship

13 accredited voluntary product stewardship schemes No mandatory schemes

Proposed prioritisation of waste streams discussion paper:

- WEEE
- 🐓 tyres
- agrichemicals and farm plastics
- refrigerants and other synthetic greenhouse gases

Ministry for Environment will focus on Resource

Management Act rather than EPR

Possible expansion of accreditation and ecolabelling roles



Australia Product Stewardship

1 mandatory scheme for used oil Co-regulatory (EPR) schemes

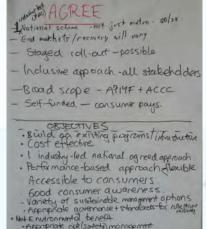
packaging and WEEE

Accredited voluntary product stewardship

- MobileMuster and FluoroCycle
- tyres, paint and vinyl possible in near future

Conditional regulatory approval for 15c/L paint levy Voluntary approach developed for handheld batteries









Product Stewardship Act 2011

Framework

Criteria for prioritisation: National markets

Hazardous substances

Business opportunities

Consumer willingness to pay

Significant costs associated with end-of-life management

Material conservation and resource recovery, and associated benefits such as reducing greenhouse gas emissions

\$147 million (CAD 139 million) net savings





Co-Regulatory Approaches in Australia

Industry support for legislation to address free riders

Australian Packaging Covenant

Australian Packaging Covenant

- National Environment Protection (Used Packaging Materials) Measure (NEPM) first adopted 2000, last amended 2011
- eligible parties face enforcement actions for not voluntarily participating
- 925 signatories with a 95% compliance rate in 2013

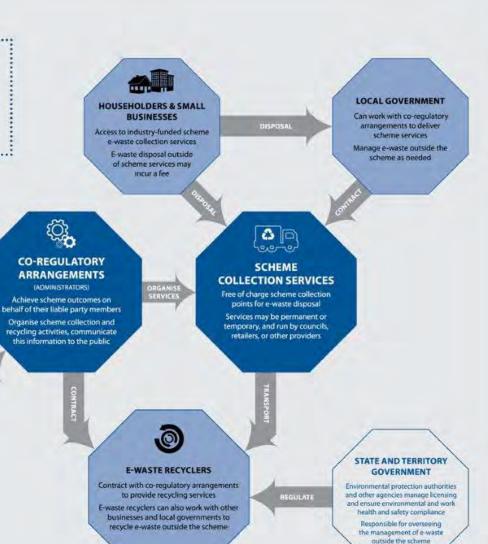
National Television and Computer Recycling Scheme (NTCRS)

- Product Stewardship (Televisions and Computers) Regulations 2011
- producers and importers of designated products over certain volumes are required to join an approved 'co-regulatory arrangement'
- 100% of liable parties complied with their obligations to join a coregulatory arrangement in 2012-13

Available if needed, but neither has had to be enforced to date







CUSTOMS BROKERS

Assist liable parties with their imports, lodge import information with the Department of Immigration and Border Protection

DECLARE

DEPARTMENT OF IMMIGRATION AND BORDER PROTECTION

Regulate imports and exports

Provide import data to the
Department of the Environment

ENSUR

DEPARTMENT OF THE ENVIRONMENT

LIABLE PARTIES

Required to join and fund a

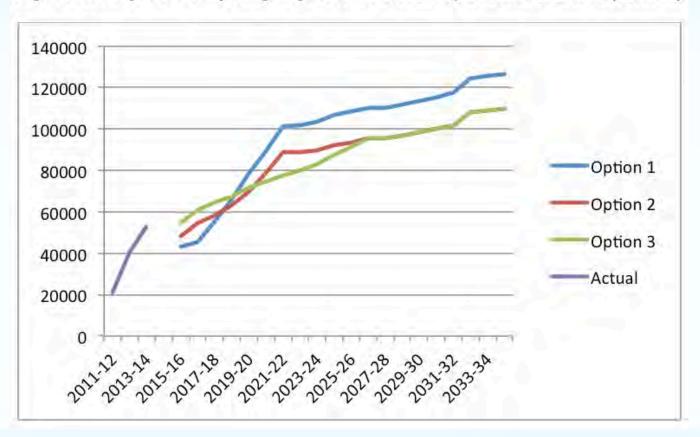
co-regulatory arrangement

FUND

Ensures compliance of liable parties Ensures co-regulatory arrangements meet scheme outcomes

Operational Review and Amended Targets

Figure 4: Projected recycling trajectories under Options 1, 2 and 3 (tonnes)





Product Stewardship for Packaging in Australia

Ongoing debate over packaging recycling, litter and deposits

Packaging Covenants and Used Packaging NEPM since 1999

Packaging Impacts Consultation Regulation Impact Statement (RIS)

Consideration of regulating packaging under the *Product Stewardship Act 2011*

National Bin Network – Industry to voluntarily fund an additional A\$20 million (CAD18.9 million) p.a. to increase recycling at home and away from home + reduce litter

Packaging Impacts Decision RIS



Australian Packaging Impacts Decision RIS

	Options Examined				
Non- regulatory	Option 1 - National Waste Packaging Waste & Litter Strategy				
Co-regulatory under <i>Product</i> Stewardship Act 2011	Option 2a - Co-regulatory packaging stewardship. No increase over current APC recycling & litter targets.				
	Option 2b – All consumer packaging. Focus on away from home beverage container recycling and litter. Packaging litter target.				
	Option 2c – Option 2b + higher packaging recycling target				
	Option 2d - Focuses solely on beverage container recycling & litter. 80% beverage container recycling rate by 2025.				
Co-regulation under NEPM	Option 2e – Keeps current APC & NEPM, with substantial increase in the level of industry funding (CAD 18.9M, CAD 33.1M, CAD 47.3M p.a. modelled)				
Mandatory	Option 3 - Mandatory Advance Disposal Fee (ADF) on all packaging				
	Option 4a – 10 cent (CAD 0.095) CDS featuring RVMs				
	Option 4b – CDS with deposit based on system costs. More collection options.				
	Option 4c – 10 cent CDS based on current South Australian model				

Australia Packaging Impacts Decision RIS Results

Option	Costs Present Value CAD million	Benefits Present Value CAD million	Net Present Value CAD million	Benefit Cost Ratio	Recycling Cost Effectiveness per Tonne CAD
1	234	304	69.9	1.3	170
2 a	404	449	45.6	1.1	158
2b	945	874	-71.4	0.9	240
2 c	1,307	1,420	112.8	1.1	215
2d	831	730	-100.7	0.9	258
2e (CAD18.9M)	444	519	75.1	1.2	163
2e (CAD33.1M)	578	670	92.6	1.2	172
2e (CAD47.3M)	693	836	143.8	1.2	174
3	1,304	1,420	115.9	1.1	215
4 a	5,025	1,449	-3,576.2	0.3	1,321
4b	5,113	1,467	-3,645.8	0.3	1,334
4c	5,708	1,418	-4,289.9	0.2	1,566

Indicative exchange rate: A\$1 = CAD 0.95



Some Trends to Consider

Product stewardship / EPR increasingly important to sustainability and increasingly expected across supply chains

Expanded range of products

- within electronics
- beyond electronics

Consolidated collections

- simplified education
- potential economies of scale

Collaborative multi-stakeholder approaches

Need for market development for recovered materials



More diverse products, blurring of categories







Not just end-of-life, but across supply chains & addressing production/usage/consumption













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