

Waste Management in Brazil

Beatriz Martins Carneiro, General Manager
Department of Industrial Competitiveness
Ministry of Industry, Development and Trade (MDIC)

LEGAL FRAMEWORK OF NATIONAL SOLID WASTE POLICY

➤ Legal Framework of National Solid Waste Policy

- Law # 12.305/2010 (National Solid Waste Policy)
- Decree # 7.404/2010

➤ Concepts

- **Joint responsibility** for the life cycle of products (manufacturers, importers, retailers, consumers, public authorities)
- **Actions:** No generation > Reduction > Reuse > Recycling > Treatment > Appropriate final disposal in landfill
- **Sectorial Agreement:** Contract to be signed by the government and manufacturers, importers, distributors aiming to implement the common responsibility for the life cycle of products
- **Take back System** for some products: electrical-electronics and devices, fluorescent lamps, lubricant oil packages, common goods packages (steel, glass, plastic, paper, styrofoam, etc.)

THE CURRENT STATUS OF WASTE TREATMENT AND RECYCLING

- Brazil is a global leader in aluminium cans recycling

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|------------------|------|------|------|------|------|------|------|
| Argentina | 78 | 88,1 | 89,6 | 90,5 | 90,8 | 92 | 91,1 |
| Brazil | 95,7 | 96,2 | 94,4 | 96,5 | 91,5 | 98,2 | 98 |
| Europe | 48 | 52 | 57,7 | N/D | 62 | N/D | 64,3 |
| USA | 51,2 | 52 | 51,6 | 53,8 | 54,2 | 57,4 | 58,1 |
| Japan | 86,1 | 91,7 | 90,9 | 92,7 | 87,3 | 93,4 | 92,6 |

- Recycling rate of other materials (CEMPRE, 2010)

| | |
|------------|-----|
| Glass | 40% |
| Paperboard | 70% |
| PET | 56% |
| Plastic | 19% |
| Steel cans | 49% |
| Tires | 92% |

CURRENT ISSUES OF RECYCLING IN BRAZIL

- Implementation of takeback system for WEEE
 - Consumer – give the products back to distributors or retailers
 - Distributors and Retailers – receive the products from consumers and give them back to producers and importers
 - Producers and importers – give proper and environmentally sound destination to the products

WEEE TAKEBACK SYSTEM - CHALLENGES



- ! Responsibility and funding to treat “orphan” waste
- ! Hazardous waste
- ! Joint responsibility – cooperation, governance and costs
- ! Promote the consumer action
- ! Promote reuse
- ! Innovation and recycling/technology transfer and development

CALLING ANNOUNCEMENT: SCOPE

- All kinds of domestic WEEE

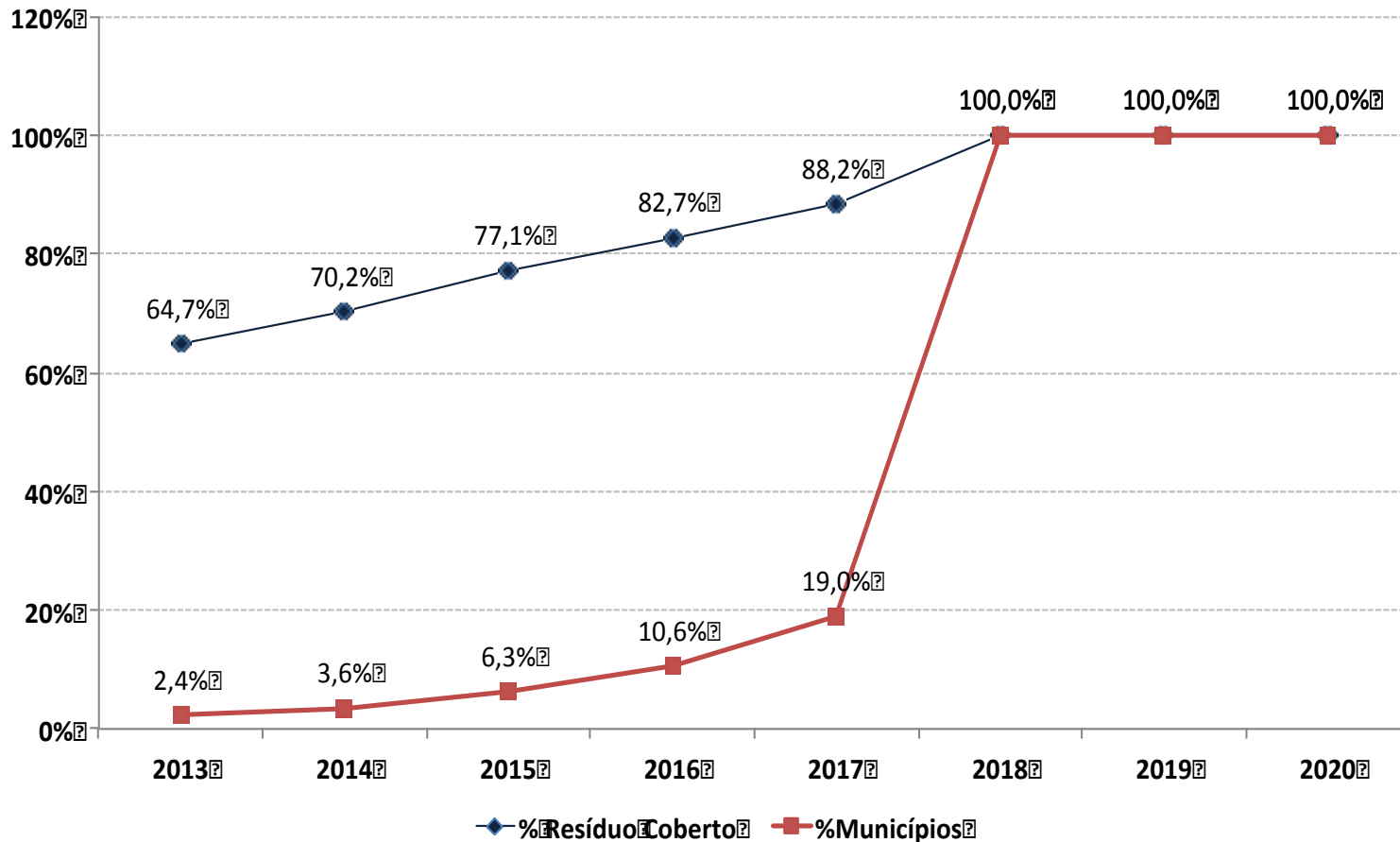
- Excludes:
 - capital goods;
 - WEEE from major generators (they need to have their own solid waste management plan);
 - Medical appliances.

CALLING ANNOUNCEMENT: GOALS FOR THE 5TH YEAR AFTER THE SECTORIAL AGREEMENT SIGNATURE

- **Implement a permanent take back system in 100% of the municipalities with a population of over 80,000 people.**
- In the municipalities with a permanent take back system, there will be a collecting point for each **25,000** people group.
- Collection and proper destination of 17% in weight, of what was sold in the internal market the year before the sectorial agreement signature.
- To be revised in 5 years.

COBERTURA GEOGRÁFICA DO SISTEMA

% Alcance do Sistema



PREMISSAS

- Até 2018, cobertura do sistema com pontos de coleta fixos, atingindo 77,1% dos resíduos em aproximadamente 350 municípios.
- A partir de 2018, campanhas de recolhimento periódico nos municípios de menor porte.

NEXT STEPS

- **CALLING ANNOUNCEMENT February 13th**
- **Proposals term – 120 days**
- **Public Consultation for the Proposals**
- **Sectorial Agreement Signed**

BRAZILIAN STANDART FOR WEEE RECYCLING



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Ministério da Ciência, Tecnologia e Inovação – MCTI
Campinas – SP - Brasil



Centro de
Tecnologia da
Informação
Renato Archer

Marcia Regina Ewald

Divisão de Qualificação e Análise de Produtos Eletrônicos

Rod. D. Pedro I (SP-65), km 143,6 - 13069-901 - Campinas - SP

Tel.: +55 19 3746-6281

www.cti.gov.br

BRAZILIAN STANDART FOR WEEE RECYCLING

Standarts for WEEE recycling



**Environmental
Protection**

ISO
14001:2004



**Occupational
Health and
Safety**

OHSAS
18001:1999



Traceability



Data Safety

BRAZILIAN STANDART FOR WEEE RECYCLING

ABNT CATÁLOGO Segurança, Qualidade, Padrão e Confiança

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Norma Técnica

| | |
|---------------------------|---|
| Código | ABNT NBR 16156:2013 |
| Data de Publicação | 18/03/2013 |
| Válida a partir de | 18/04/2013 |
| Título | Resíduos de equipamentos eletroeletrônicos — Requisitos para atividade de manufatura reversa |
| Título Idioma Sec. | Waste electrical and electronic equipment — Requirements for the activity of reverse manufacturing |
| Comitê | ABNT/CB-03 Eletricidade |
| Nº de Páginas | 26 |
| Status | Em Vigor |
| Idioma | Português |
| Organismo | ABNT - Associação Brasileira de Normas Técnicas |
| Preço (R\$) | 91,10 |
| Objetivo | Esta Norma estabelece requisitos para proteção ao meio ambiente e para o controle dos riscos de segurança e saúde no trabalho na atividade de manufatura reversa de resíduos eletroeletrônicos. |

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CONTACT INFORMATION

Thank You!

Beatriz.carneiro@mdic.gov.br

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