Overview

- ISRI
- Snapshot: US Recycling Industry
- Domestic & International Policy
- Certification
Institute of Scrap Recycling Industries, Inc.

1,700 Member companies
7,000+ Recycling facilities worldwide
34 Countries
Institute of Scrap Recycling Industries, Inc.

- Ferrous & non-ferrous metals
- Paper
- Plastics
- Glass
- Rubber
- Textiles
- Electronics
Industry Snapshot: $90 Billion Industry in U.S.

135,000,000
Tons processed annually

2012 U.S. Scrap Exports

47.3
Total exported (million metric tons)

$28B
Value of materials exported

160
Number of countries exported to
Electronics Recycling in US

$5+B

Industry in U.S.

4+M

Tons processed annually in the U.S.

400+

E-scrap ISRI members
Electronics Recycling in US

Of the UEPs collected in the US each year,

80+% Recycled, reused or refurbished domestically

17.2% Exported (by weight)

March 2013: US ITC reported on significant positive changes in US & intl e-recycling since initial NGO reports on the informal sector more than 10 yrs ago
Electronics Recycling in US

Of the UEPs collected in the US each year,

12.1% Exported as
- Testing & working UEPs
- Working UEPs
- Commodity grade scrap
- Repair through warranty programs

5.1% Recycling/disposal at export destination
Final disposal
Unknown
Domestic & International Policy

• Efforts to Ban Export of UEPs to non-OECD Countries
  – CAER
  – BAN

• 2012 US Govt Interagency Task Force

• US ITC Report

• CRTs: Cooperative Efforts with OEMs
Restrictions on export of UEPs with FM s for repair, refurbishment, and recycling

• No geographic distinction (OECD vs non-OECD)
• 1-time notification + register with EPA
• Due diligence
Ban export of UEPs for landfill & incineration

No restrictions on export of -

• commodity-grade scrap

• fully tested & working UEPs for reuse
Certification Trends

Independent certifications

• Competitive advantage
• Customer requirement
• Operational improvement
Recycling Industry Operating Standard™

ANSI-ASQ National Accreditation Board (ANAB) supported QEH&S management system

Third-party certification

Voluntary

ISO 9001

ISO 14001

OHSAS 18001
Why RIOS™?

• Designed by and for recycling industry
• Globally accepted
• Customer confidence
• Regulatory compliance
• Improves reputation
86
RIOS™ and R2/RIOS™ facilities

110+
Facilities in certification process
Effective July 1, 2013

Stringent, accountable standard

- EHSMS requirement (ISO 14001 and OSHAS 18001 or RIOS)
- Explicit compliance with laws of all exporting, importing and in-transit countries
- Extensive downstream due diligence through each downstream vendor until it is sold for reuse or as a commodity
- Data security and destruction
Multi-Stakeholder Review & approval
  - Best Buy, Dell, Microsoft, etc.
  - Overseen by independent body: R2Solutions.org

400 E-Recyclers Currently Certified to R2
18 month Transition Period
Global in its reach: facilities certified in Australia, China, Costa Rica, Canada, England, Germany, Hong Kong, India, Ireland, Malaysia, Mexico, New Zealand, Singapore, and South Africa
“By ...2025 the developing world will generate double the developed world’s used and EOL computers.”

Journal of Environmental Science and Technology, 2010
Thank You

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