E-Waste Management in India: Challenges and Agenda

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CSE Webinar
26 February 2021
a micro-multinational, boutique consultancy with offices in 4 locations
Our key domains of expertise cover six broad areas:

**Secondary Resources & Urban Mines**
- E-waste, Plastics, Textiles

**Alternative Energy**
- Climate-positive fossil-fuel alternatives

**Managing Sustainability**
- Innovation, Assessment, Reporting

**Sustainable Production**
- Resource efficiency for SMEs

**Sustainable Territories**
- Smart regional development

**Sustainable Industrial Zones**
- Industrial symbiosis
a team with global expertise and know-how on e-waste

Policy and legislation
Legal compliance
On-ground pilots
Business advisory
Capacity building
Third-party audits
Research and analysis
Project management
Targeted e-waste specific legislation is gaining momentum with policy makers.
Circular economy of electronics is gaining support with the global IT industry

Source: HP Sustainable Impact Report 2019

Source: Apple Environmental Responsibility Report 2019

Creating a circular supply chain
Reaching our goal means focusing on three key aspects of our supply chain:
1) Source strategically and make efficiently: Use recycled and renewable materials while manufacturing products efficiently to minimize use of materials.
2) Use for a long time: Design products to be durable, so they can have long lives.
3) Contribute: Ensure materials go back into the market for Apple or others to use.

Source: HP Sustainable Impact Report 2019

Source: Apple Environmental Responsibility Report 2019
Turning challenges into opportunities
Recommendation 1: Inventorize e-waste to know our urban mine

Source: ProSUM Project

Fe: ~ 40%
Plastics: ~30%
Al: ~5%
Cu: ~5%
Au: ~0.0001%
Recommendation 2: E-waste imports and data transparency

There is incomplete data on a large portion of flows globally.

Basel working groups to harmonise and digitise reporting.

World Customs Organisation looking at HS codes for used products.
E-waste management – an engine for green growth

- Inculcates responsible consumer behaviour that is applicable for other consumer goods as well
- Less waste, less pollution, better health

- Builds collection infrastructure or finances upgrades of existing infrastructure

- Drives creation of reverse logistics, transport and storage infrastructure
- Encourages investment in small and medium enterprises
- Requires skilled, semi-skilled and managerial manpower

- Triggers domestic and foreign investment/venture capital in recycling industry
Examples of green jobs in e-waste management

Consumers → E-waste → Collection Points / Service Centres → Transportation, service providers → Recycling & recovery

Highly skilled jobs:
- Communications specialists
- IT specialists for digital apps
- Enforcement officers/ auditors
- Metallurgists/ Material specialists
- Refurbishment technicians
- Repair technicians
- Logistics managers

Low skill jobs:
- Collectors
- Drivers / Fork-lift operators
- Dismanlers
thank you for your attention.