E-Waste Recycling, Technology, EPR & Circular Economy

Venue - Vigyan Bhawan, New Delhi

Date - 25th - 27th July 2024

E-WASTE RECYCLING

The discarded and end-of-life electronics products ranging from computers, equipment used in Information and Communication Technology (ICT), home appliances, audio and video products and all of their peripherals are popularly known as Electronic waste (E-waste).

The ill effects of e-waste could be on soil through leaching of hazardous contents from landfills; in water due to recycling process, if not carried out properly, can cause damage to human being through inhalation of gases during recycling, contact of the skin of the workers with hazardous substances and contact during acid treatment used in recovery process.

CHALLANGES FOR E-WASTE RECYCLING

01. Mismanagement in Market for the end of life products

02. Environmentally unstable informal sector practices

03. Inadequate regulatory design and enforcement

04. Poor Infrastructure for E-waste recycling

05. Lack of awareness and financial incentives

06. Less information on e-waste generation rates

WAYS TO MANAGE E-WASTE IN INDIA

Strengthen the Informal Sector

Policy instruments under EPR

Regulatory Enforcement

E-waste Imports

Public Awareness

TECHNOLOGY

Modern India has had a strong focus on science and technology, realizing that it is a key element for economic growth. India ranks third among the most attractive investment destinations for technology transactions in the world. With more and more multinational companies setting up their R&D centres in India, the sector has seen an uptrend in investment in recent years.

The government has introduced multiple policies aimed at projecting India as a science and technology powerhouse and promoting both public and private sector involvement in the R&D practice. As a result, India's gross expenditure on R&D (GERD) has been consistently increasing over the years. The government has also implemented several fellowship schemes to nurture the human capacity for advanced research in the country.

> **According to National Association of Software and Service Companies (Nasscom), the Indian IT industry's revenue touched US$ 227 billion in FY22, a 15.5% growth.**

> **The IT industry accounted for 7.4% of India's GDP in FY22, and it is expected to contribute 10% to India's GDP by 2025.**

CHALLANGES IN IT INDUSTRY

- New skills shortage
- Data privacy and security
- Infrastructure challenges
- Increasing competition
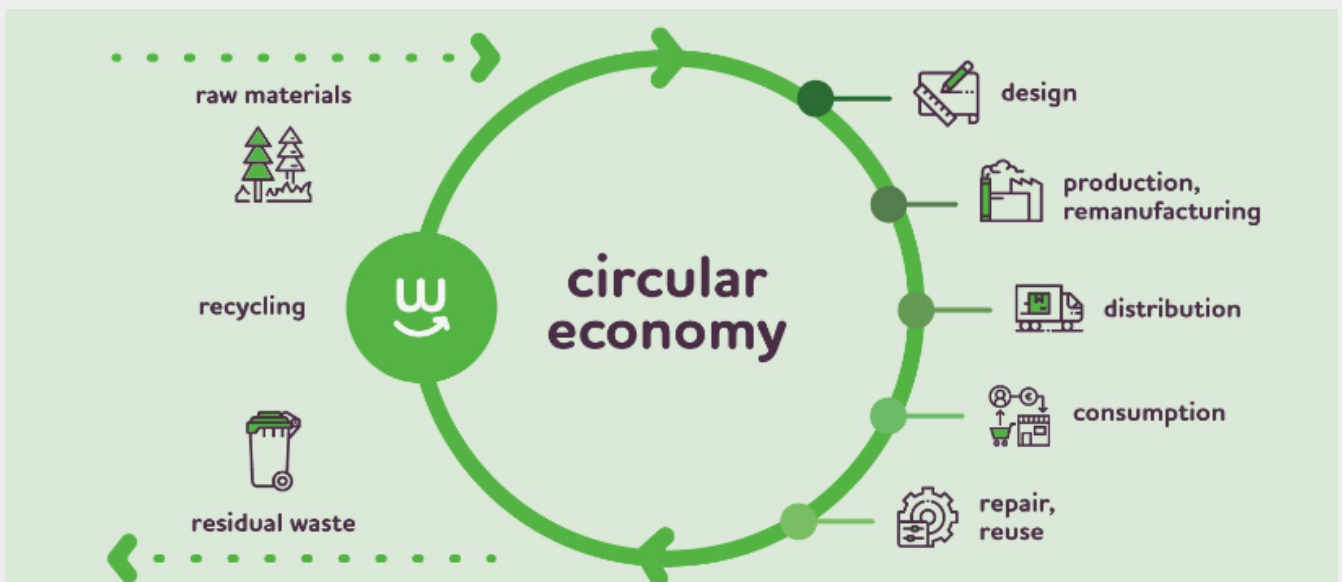- Protectionist policies

REFORMS NEEDED IN IT SECTOR

- Skilling and upskilling: India needs to focus on skilling and upskilling its workforce to meet the changing demands of the IT industry.

- Research and development: India needs to invest more in research and development (R&D) to develop new technologies and stay competitive in the global IT market.

- Data privacy and security: India needs to strengthen its data privacy and security laws to protect sensitive information and ensure trust in the IT sector.

- Regulatory environment: India needs to create a favorable regulatory environment for the IT industry to attract investment and foster innovation.

EPR & CIRCULAR ECONOMY

EPR is defined as "an environmental policy approach in which a producer's responsibility for a product is extended to the post-consumer stage of a product's life cycle".   It is a well-thought model of production and consumption that involves reusing, repairing, refurbishing, and recycling products. It is no secret that natural resources across the world are constantly depleting.

The circular economy is a model of production and consumption, which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible. In this way, the life cycle of products is extended.
In practice, it implies reducing waste to a minimum. When a product reaches the end of its life, its materials are kept within the economy wherever possible thanks to recycling. These can be productively used again and again, thereby creating further value.

BENEFITS OF EPR AND POTENTIAL OPPORTUNITIES FOR CIRCULAR ECONOMY

▶ Improvement in waste management and resource recovery as establishing efficient system for collection of end-of-life products from consumers and supporting the creation of effective recycling infrastructure and processes will reduce the amount of waste disposed in the landfills

▶ Reduced financial burden on public sector: EPR moves the cost of managing end -of-life products partially or fully from local governments to the producers.

▶ Promotion of eco-entrepreneurship and business models: that support the implementation of EPR and may generate livelihood opportunities for many.

KEY HIGHLIGHTS OF THE EXHIBITION

- 350 + eminent speakers from across the world will participate in the conference with 800 + industries from PAN India overseas.

- Apart from Middle Industries and corporates, 400+ startups, unicorn and MSME's will be participating in the event along with 6000+ participants.

- 100 + interviews will be published by various TV channels, Magazines and Newspapers.

- It will deliberate & showcase the opportunities, growth, ecosystem, emerging trends.

- Exhibition will bring forth technology solutions & new innovations for challenges faced by Indian food/pharma and flexible packaging process

WHO SHOULD ATTEND ?

- Electronics scrap processors
- Govt organizations / Ministries
- Battery manufacturers & suppliers
- Scrap buyers and brokers
- Machinery suppliers

- Refurb/reuse companies
- Recycling business managers
- Sales and Business Development
- Waste management companies
- Business analysts

WHY TO EXHIBIT ?

- Access to the newest technology across the industrial supply chain from 200+ brands.

- Explore the largest battery technology expo in India for the newest market developments.

- Gain new ideas for increased battery efficiencies and reduced manufacturing costs.

- Watch live product demos showcasing cutting-edge technology.

- It is also a good opportunity for professionals to exchange information, share knowledge and get inspirations.

- It will allow to host meetings and secure business deals on your exhibition stand along with generating new leads for your company in a highly targeted environment.