



Online Workshop/Webinar on Role of Standards & Policy in Resource Efficiency and Circular Economy Transition in India and the EU

January 21, 2022, at 14:00 – 17:00 Hrs. (IST) / 09:30 – 12:30 Hrs. (CET)

Circular Economy & Resource Efficiency: MeitY's perspective

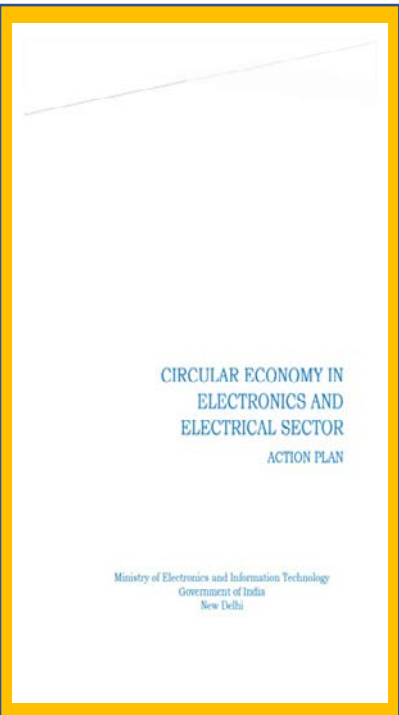
Dr. Sandip Chatterjee



Circular Economy in E-waste sector



NITI Aayog



- CE approach plays an important role in resource efficiency, reduction in pollution & waste, longer product-life, recovery of precious & rare materials, minimization of occupational and health hazards & boost recycling industry, helps formalization, job creation
- E-waste management in India follows downstream (EoL of products) only, upstream (materials security, design for easy reparability, longer life of products) also require
- Necessitates policy shift towards circular approach for resource efficiency and proper waste management.

'Circular Economy for EEE Sector' : Action Plan, prepared by MeitY submitted to NITI Aayog on July 2021



Key Action Plan- highlights

- Design and other CE principles for electronics & electrical sector
- Bring out a “Sustainable Product Policy”
- Green Skill Development Programme,
- Green public procurement (GPP) in-line with global frameworks & BPs.
- Tracking SRM and encourage manufacturing to use them
- Institutional arrangement to track critical materials
- Set up material sampling labs to assess the SRM presence in products,
- Incentivize manufacturers for recyclable design, SRM use in future products
- Adopt internationally harmonized resource efficiency/circular economy.
- Adopt international standards: EU’s CEN/CENELAC in entire value chain
- Upgrade informal sector to formal economy to boost collection & better segregation and enrich materials value
- Create infrastructure, affordable technology, local machines to ensure RE in recycling

***MeitY has been entrusted for overall coordination
Other Stakeholder Ministries : MoEF&CC, MoUHA, M/Skill Dev., MSME, CPCB
NITI Aayog to carry out monthly review***



Action Initiated so far- highlights

Action pertaining to MeitY

Awareness Creation

Skill, Capacity development & technology proliferation (2A (1 & 2)
Skill development of informal sector, **repairing centres** etc.(2C (6 to 8)-
Upgradation of informal sector in the value chain (2C(11)
Conduct **awareness programmes on e-waste management, RE/CE label** to make consumers responsible towards product usage and safe disposal (2A (7)

**NIELT, Ind.Ass.,
Producers etc.**

Skill development at NIELIT, P.U. CMET, Hyd. (~ 900) is in progress
Another project/programme for skilling, capacity building technology handholding is being conceptualized

Study Global BAT

Studies on **Global BAT**, identifying Critical Raw Materials **CRM & tracking SRM** (2A (4)
Techno-financial analysis, **comparison of local/global recycling/ refurbishment technologies** and Compilation of best practices 2C(12 & 13)
Adoption of best practices i.e Create value chain, Trading, Integration of SRM with global supply chain 2D (1 to 3)
Integration & upgradation of informal sector- joint collaboration initiatives with GIZ DPP (2D (7)

A study proposal with GIZ/EU REI to be initiated
Discussion with EU REI is being done

**EU REI GiZ MeitY
MoEF&CC, etc.**

Sustainable Products

Sustainable product policy to promote design for recyclable and longer lasting products (B 11)
Adopt design for recyclability, disassembly, repair-ability and long lasting products (2C(14)
Incentive Structure for Manufacturer under PLI scheme (2D (4 to 6)

Committee formed to evolve Sustainable Product Policy
Stakeholder: **Industry, Environmentalist, GiZ**



Action Initiated so far- highlights

Action pertaining to MeitY

Subscription
model

Product subscription/lease model 2C (4)

Industry,
Environmentalists, GiZ

Committee formed to evolve a strategy to roll out product subscription and lease model in Govt. offices

BAT for
recycling

Incentive plans to promote best available technologies 2C (9)

EU REI GiZ MeitY
MoEF&CC, etc.

Setting up of Eco-Parks was earlier proposed.
Now decided to initiate capital equipment subsidy scheme for PCB. Li Ion, magnet etc. for existing recyclers under existing SPECS scheme of MeitY
Approval is in progress

Sustainable
Products

Develop new cost effective indigenous technologies to encourage start-ups, innovators 2D (10)

To be taken under On-going scheme

Industry driven R&D projects to be initiated for different e-waste items.



Action Initiated so far- highlights

Action pertaining to MoEF&CC

Short Term

Recycler capabilities to recover material- 2A(5)
EPR finance analysis- 2A(6)
RE/CE label awareness - 2A(7&8)
Regulatory Measures, e-waste management rules and compliance- 2B (1 to 10)

MeitY, CPCB, Industry,
Environmentalists, EU
REI

Audits by regulatory authority

To obtain capability status report from authorized recyclers

To collect data from manufacturers on EPR spending on awareness creation, e-waste, collection, transport, processing etc.

Being followed up with MoEF&CC

Medium Term

Digital track of uses of critical materials & RE/CE labels/online dissemination of information and Alignment to the products complying best practices 2C (1 to 3)
Training and capacity building of CPCB/SPCB- 2C (5)

MeitY, CPCB, Industry,
Environmentalists, EU
REI

CPCB to introduce the software developed by CDAC

MoEF&CC to upgrade system further to quality RE/CE

MoEF&CC may mandate regular training for CPCB/SPCB/PCC officials.

Being followed up with MoEF&CC

Long Term

Adoption of best practices i.e Create value chain, Trading, Integration of SRM with global supply chain- 2D (1 to 3)
Guidelines to promote Eco-design with global best practices,
Criteria for identifying products with best environmental performance-2D (8 & 9)

Action plan clubbed with 2A(4), Global BAT study

MoEF&CC to initiate e-waste policy amendments.

Being followed up with MoEF&CC



Action Initiated so far- highlights

Action pertaining to MSME

Short Term

For the informal sector, including the small aggregators investments to made to strengthen their skills in dismantling, machinery and systems approach to bring materials efficiency.

MSME, MeitY,, CMET CPCB,
Technology aggregators

Suitable CFC scheme to be developed to support informal sector with indigenously developed technology

Action pertaining to MoUHA

S & M Term

Conduct training sessions to develop capacities of the ULBs. (3m)
MoEF&CC /Ministry of Housing and Urban Affairs to develop necessary system and process at ULBs to aid integration with EPR systems (6m)

MeitY, CPCB may support
Being followed up with MoUHA

Long Term

Adoption of best practices i.e Create value chain, Trading, Integration of SRM with global supply chain- 2D (1 to 3)
Guidelines to promote Eco-design with global best practices,
Criteria for identifying products with best environmental performance-2D (8 & 9)

Action plan clubbed with 2A(4), Global BAT study
MoEF&CC to initiate e-waste policy amendments.
Being followed up with MoEF&CC



Conclusion

- Products to design for longevity or for repairing
- Design for Environment (DfE) to Reuse/ refurbished/ minimize e-waste
- To create awareness on RE & CE benefits
- To track SRM (secondary raw materials) or CRM (critical raw materials)
- Consider RE from manufacturing to extraction of SRM
- Motivation or incentive producers for Green design and innovation
- Legislative and regulatory framework: Right to Repair, Echo-level to promote circular economy
- Standards for refurbishments, Dismantling, Segregation & Recycling
- Encourage “Sustainable Product Policy”, Green Skill Development Programme, Green public procurement (GPP)
- Consumers to provide choice for safety/ quality std. for refurbished products



Thank you!

Contact Details



Insert your logo here
right click > change picture