Badlaav - Agents of Change:

Circular Economy Training Workshop for Youth

Date: January 21-22, 2023 | Time: 09.30 -17.30 IST
Venue: Jaypee Vasant Continental, Vasant Vihar

Between 1970 and 2015, India registered a six-fold increase from 1.18 billion to 7 billion tonnes in annual material consumption. It is estimated that in 2022 India is the most populous nation in the world, and it's expected that by 2030, its annual material consumption would double to 14.2 billion tonnes due to population growth, urbanization, economic mobility, and the resulting growth in per-capita resource consumption. Currently, India's resource extraction of 1,580 tonnes/acre is 251% higher than the world average of 450 tonnes/acre. While Europe recycles 70% of its consumption items, India recycles only 20%. Further, India is the third-highest emitter of greenhouse gases (GHG) and accounts for 9.2% of total global emissions. Given India's aspiration to become a global manufacturing hub, we are likely to witness higher levels of consumption of raw materials than what's required to meet India's domestic needs. Therefore, India's traditional 'take-make-waste' linear economic approach will cause severe ecological damage with untoward economic and social ramifications especially for the future generations including the country's youth population.

Maximised, resource efficient extraction of utility from raw materials, produced goods, and perishables, throughout their life cycle, is central to building a circular economy. Given that India currently recycles only 20% of its consumption, there is enormous scope for improvement in this area, and is an opportunity for both innovation and employment. Hence, the journey from the current linear economic model to a circular economic model sees both ecological and economic benefits.

It is important to note that the growing population in India is young, with half of India's population underage of 30, and approximately 25% of the population under the age of 15. Young people are at the highest risk of facing consequences of environment degradation and climate change in the future and therefore have a critical role to play in the journey towards a circular economy. The country's youth represents the future generation of citizens, professionals and consumers with potentially increased expectations toward sustainability, and is an important constituency for consideration to transition to circular economy.

EU's Resource Efficiency Initiative (EU-REI-II) aims to support India in the implementation of the United Nations global sustainable consumption and production (SCP) agenda to foster the efficient and sustainable use of natural resources by way of adopting international standards and best practices in business on resource efficiency. EU-REI has three results, which are:

- R1: Assessment of India's current and future needs for resources;
- R2: Facilitating partnerships between European and Indian businesses and stakeholders on

resource efficiency; and

● R3: Raising awareness on the need for resource-efficient approaches in India among key government and non-governmental organizations, businesses, students, media, and the public through the promotion of standards and business best practices on resource efficiency

As part of the third result area (R3), EU-REI-II along with Indian Youth Climate Network is organising Training on Circular Economy to sensitize and disseminate knowledge on the circular economy to the youth in the country with an aim to empower them to take action by identifying key areas of engagement, where youth can play a catalytic role, and developing circular innovative ideas and initiatives for uptake including Lifestyle for Environment (LiFE) to promote responsible consumption.

What is Resource Efficiency and Circular Economy?

Resource efficiency (RE): *Reduced resource consumption in the production process and lower waste generation. In general, resource efficiency is "producing more with less".*

Circular economy (CE): *a regenerative system in which resource input and waste, emission and energy leakages are minimized by reducing, closing and narrowing material and energy loops. This is achieved through long-lasting and environmentally sensitive design, requiring lean maintenance and promoting repair, refurbishing, reuse, remanufacturing and recycling.*

The objective of capacity building is to enhance the knowledge and understanding on the overarching sustainable consumption and production approaches, RE&CE concepts, policies, approaches and tools and achieve the following:

- Develop a sound understanding of fundamentals, principles, approaches and tools for RE and CE
- Understand the importance and opportunities associated with the concepts of RE & CE in India;
- Identify opportunities and implement activities within their scope of responsibility for RE & CE; and undertake action
- Introduction to range of different tools, standards and indicators which support the decision-making process for implementing RE &CE solutions

The training workshop would cover topics such as the fundamentals, principles, approaches and tools for transitioning to a circular economy, its benefits for the environment and the economy, and identify resource efficiency and circular economy measures for implementation at different levels and in varied contexts. The participants would have the opportunity to learn from academic and industrial experts through interactive exercises and group discussions. This would provide them an wholesome experience and inspire them to take an active role in building a more sustainable and circular future. The participants can share their own ideas and try to solve the problems with the help of peer discussion and experts knowledge. The workshop would also focus on empowering youth to become agents

of change in their communities. This could include sharing success stories of young people who have already implemented circular practices, providing knowledge resources (Presentations, Case Studies etc), and creating opportunities for networking and collaboration.

Following is the broad outline of the workshop that will be divided into 2 days:

- Introduction to the workshop and the concept of circular economy
- Presentation on the benefits of a circular economy for the environment and the economy
- Interactive exercises: Identifying linear and circular measures
- Group discussion: Sharing ideas on how to implement circular practices in different settings
- Presentation on the role of youth in the transition to a circular economy
- Interactive exercise: Brainstorming ways that youth can take action in their communities
- Group discussion: Sharing success stories of youth who have implemented circular practices
- Presentation on resources and support for youth to take action on circular economy including adopting sustainable lifestyle
- Networking and collaboration opportunities for youth
- Conclusion and next steps

January 21, 2022: 09.30am – 5:30 pm IST	
Time	**Draft Agenda***
9:00 am - 09:30 am: Registration	
09:30 am -10:10 am (40 mins)	• **Welcome** - IYCN/ EU-REI • **Opening Remarks –** Dr Michael Bucki, Head of Section, EU Delegation to India* • **Special Remarks -** Representative, MoEFCC • **Special Address –** Mr Ravi Agarwal, Founder & Director, Toxics Link
10:10 am -11:30 am (80 mins)	• **Introduction to EU-REI** • **Circular Economy and Youth's role and Perception** • **Introduction and Foundations of Resource Efficiency (RE) & Circular Economy (CE) -** Dr Rachna Arora/Dr Reva Prakash, EU-Resource Efficiency Initiative - What is linear and what is a circular economy? - Principles of CE - Introduction to RE, Basic technical concepts (with examples) - Strategies of CE with contextual examples - Lifecycle and Systems Thinking Quick debrief
11:30 am– 11:50 am (20 mins)	**Group Exercise 1** **+ (Tea will be served on table)**
11:50 am -12:30 pm (40 mins)	**Panel Discussion on Circular Economy Policies:** Dr Rachna Arora, EU-REI* - **Circular Economy and Resource Efficiency Policies in India – Mr** Souvik Bhattacharyjya, EU-REI - **Circular Economy and Resource Efficiency Policies in EU and the world –** Mr Anshul Jain, Founder, Nordic Consult* **Q&A**
12:30 pm – 1:00 pm (30 mins)	**Group Exercise 2**
1:00 pm - 2:00 pm: Lunch Break	

2:00 pm - 3:45 pm (105 mins)	**Panel Discussion on Circular Economy in Practice – Policies, Opportunities & Challenges in Selected Sectors –** Moderated by Dr Reva Prakash, EU-REI - **Circular Economy in Building & Construction –** Mr Ajay Agarwal, Superintendent Engineer, Municipal Corporation of Delhi - **Circular Economy in Municipal Solid Waste –** Mr Shivam Gupta, Project manager, SAAHAS - **Circular Economy in Plastics Packaging and SUP Ban–** Mr Ankur Yadav, Environmental Policy & Resources Efficiency Advisor, GIZ - **Circular Economy in Electrical and Electronics Sector –**Ms Mehar Kaur, Technical Expert, EU-REI, GIZ - **Circular Economy in Textiles Sector –** Ms Pavithra Mohanraj, Expert, Infinitive - **Q&A**
3:45 pm - 4:00 pm: Tea Break	
4:00pm – 4.20 pm (20 mins)	**Group Exercise 3**
4:20pm – 5:00 pm (40 mins)	**Circular Economy, Sustainable Consumption and Lifestyle for Environment: Youth Action** - **Input Presentation on Sustainable Consumption** – Ms Shubhi Sachan, Founder and Director, Material Library of India - **Group Work – Youth Action on Circular Economy –** IYCN (Identifying action at Macro, Micro, Meso, Community, Individual level)
5:00 pm – 5:15 PM (15 mins)	**Group Exercise 4 (Homework for Day 2)**
Closing Day 1 (5:15 pm – 5:30 pm**)**	

January 22, 2023: 09.30am – 5:30 pm IST	
Time	**Draft Agenda***
9:30 am –10:15 am (45 mins)	**Recap of Day 1 and Highlights of Group Exercises:** Moderated by IYCN & EU-REI
10:15 am –11:10 am (55 mins)	**Tools for RE and CE: Material Flow Analysis –** Mr Pankaj Khanna, Expert, Material Flow Analysis
11:10 am – 11:30 am (20 min)	**Group Exercise 5 –** Moderated by IYCN and EU-REI
11:30 am –12:30 pm (60 mins)	**Tools for RE&CE: Life Cycle Assessment –** Dr Vivek Kumar, Professor, IIT Delhi
12:30 pm – 1:00 pm (30 mins)	**Group Exercise 6**
1:00 pm - 2:00 pm: Lunch Break	
2.00 pm – 3:30 pm (90 mins)	**Panel Discussion: Business Models, Green Jobs and Opportunities for Youth in CE & RE –** Ms Pavithra Mohanraj, Founder and Director, Infinitive (tbc) - **Input presentation on Fundamentals for Business based on Circular Economy –** Ms Anita Ahuja, President, Conserve India - **Gaps and Skill Needs for Circular Transition –** Ms Shalini Goyal Bhalla, Managing Director, International Council for Circular Economy - **Large Industry –** Mr D.K. Singhal, Chandpur Enterprises - **CE innovation and start-up –** Mr Ankur Kumar ,Co-founder & CEO, Kriya Labs - **Research, Innovation and CE Solutions** – Dr Akanksha Tyagi, Programme Associate, CEEW - **Innovation & Action -** Deepak Menaria, Founder, Lemon Ideas - **CE and Youth Solutions –** Mr Ashish Pahwa, President, IYCN - **Q&A**
3:30 pm - 4:00 pm: Tea Break	

4:00 pm - 5:00 pm (60 mins)	**Group Exercise 7: Youth Action & LiFE**
Closure and Call to Action (5:00pm - 5:15pm)	