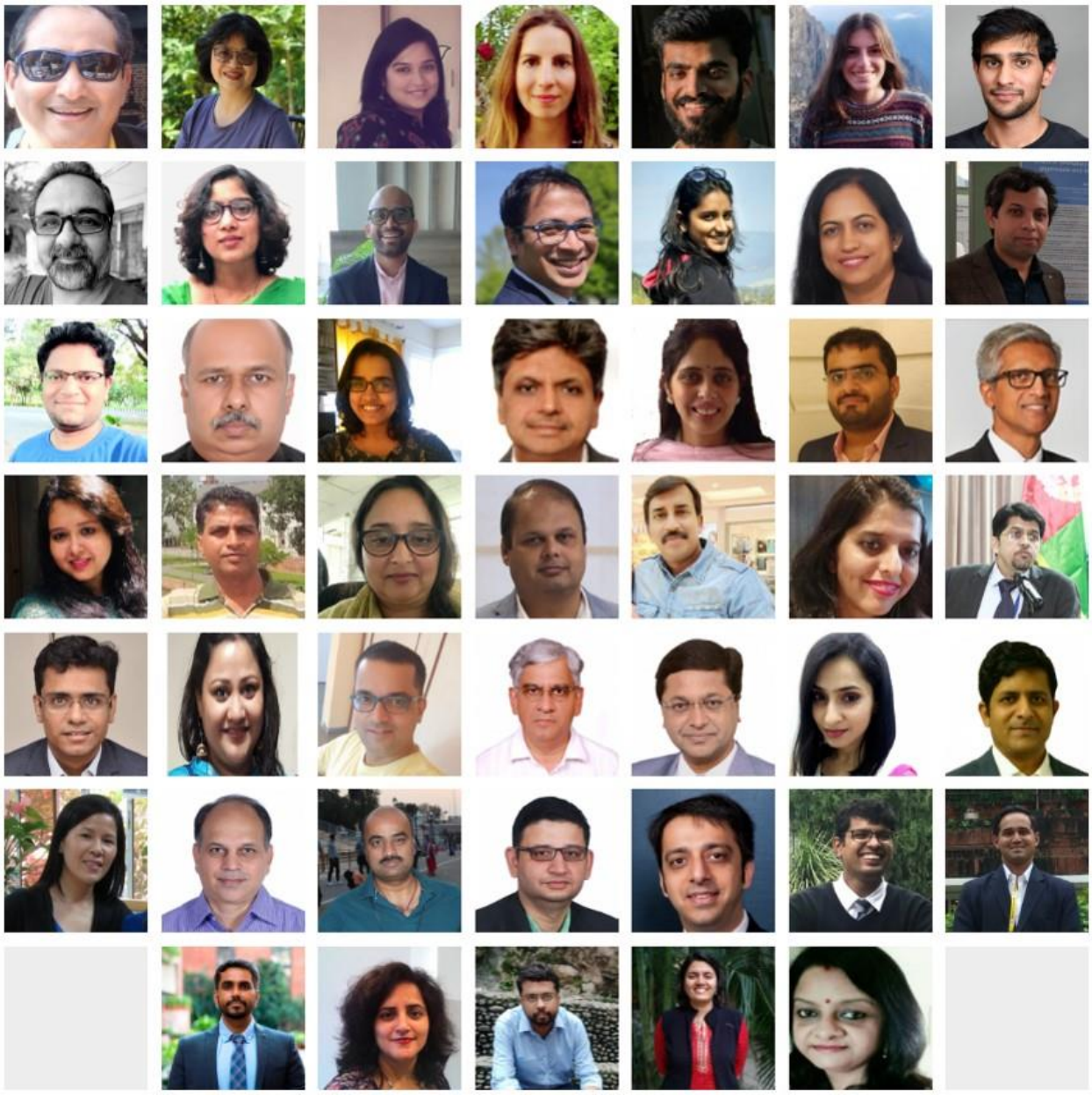
INTERNATIONAL E-SCHOOL ON CIRCULAR ECONOMY

MAY 12TH – MAY 26TH, 2020



International e-School conducted by

Ekonnect Knowledge Foundation

with support from

Indian Institute of Technology, Bombay

National Institute of Industrial Engineering (NITIE) and

Bombay Chamber of Commerce and Industry (BCCI)

ekonnect

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1. What is Circular Economy

Circular Economy (CE) presents a fundamental alternative to the currently predominant linear approach of development – "Take-Make-Dispose", that is based on uncontrolled resource extraction and consumption.

It is a regenerative system in which resource input, 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 operations and maintenance and promoting sharing, leasing, repair, refurbishing, reuse, remanufacturing and recycling.

2. About International e-School on Circular Economy

In November 2019, Ekonnect Knowledge Foundation, IIT Madras and Madras Chamber of Commerce and Industries (MCCI) conducted a three-day Winter School on Circular Economy at IIT Madras.

This School, a first of its kind in India and perhaps in the region, engaged a diverse pool of participants with eminent experts to learn, update and get inspired to promote and practice Circular Economy. The School used different elements of pedagogy and interactions such as plenary presentations, panel discussions, group work, meeting with entrepreneurs, networking and field visits. The participants consisted of a mix of 25 students and 25 professionals with 15 resource persons/speakers.

This School received an incredibly positive response. A Summer School on Circular Economy was then planned between May 12-16 at Indian Institute of Technology Bombay (IIT-B). This School was in partnership with National Institute of Industrial Engineering (NITIE) and Bombay Chamber of Commerce and Industry (BCCI) with Ekonnect Knowledge Foundation as lead. Due to the COVID-19 pandemic, the event had to be re-designed and was conducted virtually.

As the event was now planned as a virtual event, participation from other countries also became possible. An International e-School with 11 virtual learning sessions covering various topics in Circular Economy for aspirants across all countries worldwide was devised and announced. Topics covered include Evolution of CE, Life Cycle Assessment, Sustainable Public Procurement, Sustainable Product and Packaging Design, 12Rs of CE along with related policies, regulations and technology innovations. Business models in CE and Financing with role of informal sector will also be covered with case studies and interactions with CE practitioners.

2.1. Learning Objectives

The International e-School was designed keeping in mind the learning objectives for participants across a wide spectrum. The e-School was designed for participant categories like national and international students, practitioners, industry professionals, sustainability consultants, research organization, NGOs, policy makers and regulators and investors. The overall learning objectives were:

- Expose participants to the concept of circular economy and its evolution
- Provide an update on the current initiatives related to Circular Economy
- Introduce life cycle concepts in design thinking

- Present case studies on partnerships between government, business, NGOs and the informal sector
- Understand existing policies and incentives enabling transition towards CE across various sectors and value chains
- Learn approach and tools towards development of innovative CE solutions towards Smart Sustainability
- Identify opportunities to redesign, maximize value and eliminate waste streams
- Redefine conventional business offerings of products and services to attain better resource efficiency while closing the loop of material and energy flows
- Introduce participants to financing products that boost Circular Economy
- Leverage business opportunities to become a CE entrepreneur
- Help participants and their organizations become future-ready

2.2. Event Schedule

The 11 virtual learning sessions took place across a period of 3 weeks. The schedule for the e-School is presented in **Figure 1** below.

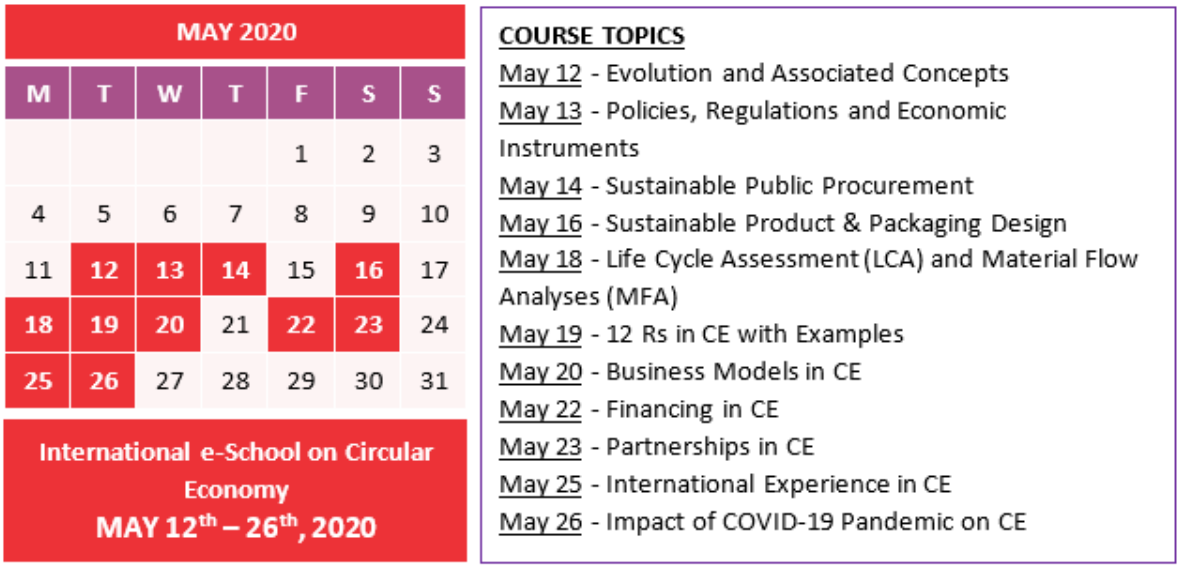


Figure 1: Schedule for International e-School on Circular Economy

3. e-School Pedagogy

The International e-School was conducted virtually via an online platform. Each session was of 90-minute duration. The time for each session was divided as follows:

- Base presentation by session moderator – 15 minutes
- Panel talks – Each Panellist 10-15 mins (maximum 2 panellists)
- Interactive Q&A – 15 mins
- Mentimeter interactions – 5 mins

For conducting 11 sessions across 3-weeks, a pool of 24 distinguished faculties of national and international repute was created. The faculties include international experts, practitioners, policy makers, academicians, researchers, consultants, industry professionals and business entrepreneurs.

Figure 2 and **Annexure 7.2** enlists the faculties of e-School.

Reading material on each topic was shared with all the participants in advance.

During the session, interactions were facilitated by e-chat and Q&A feature of the online platform. Live Q&A's were encouraged which were then answered by the faculty during the session. Sufficient time was allocated for Q&A and interactions with the faculties.

At the beginning of each session, Mentimeter tool was used to gauge the perception and expectations of participants on each topic of e-School. The tool was also used to receive real-time feedback on sessions.

Presentations were used by faculties to deliver the content on various topics of e-School. These presentations were shared with participants after each session.

In addition, video recording of sessions was shared with participants post the lecture. Towards the end of the e-School, participants were divided into 10 groups and assignments were given to them.

3.1. Mode of Delivery

The sessions were hosted on the Zoom Webinar Platform. The platform allows screen sharing and participant interaction. Mentimeter tool was used for polling and quizzing. Upon registration, participants were provided with link to join the session with all the necessary information.

Ekonnect Knowledge Foundation strictly followed the guidelines issued by the Ministry of Home Affairs, Government of India for using the Zoom platform. The participants were also informed about this and were guided towards enabling extra security layers like using password and authentications of their emails.

3.2. e-School Faculty

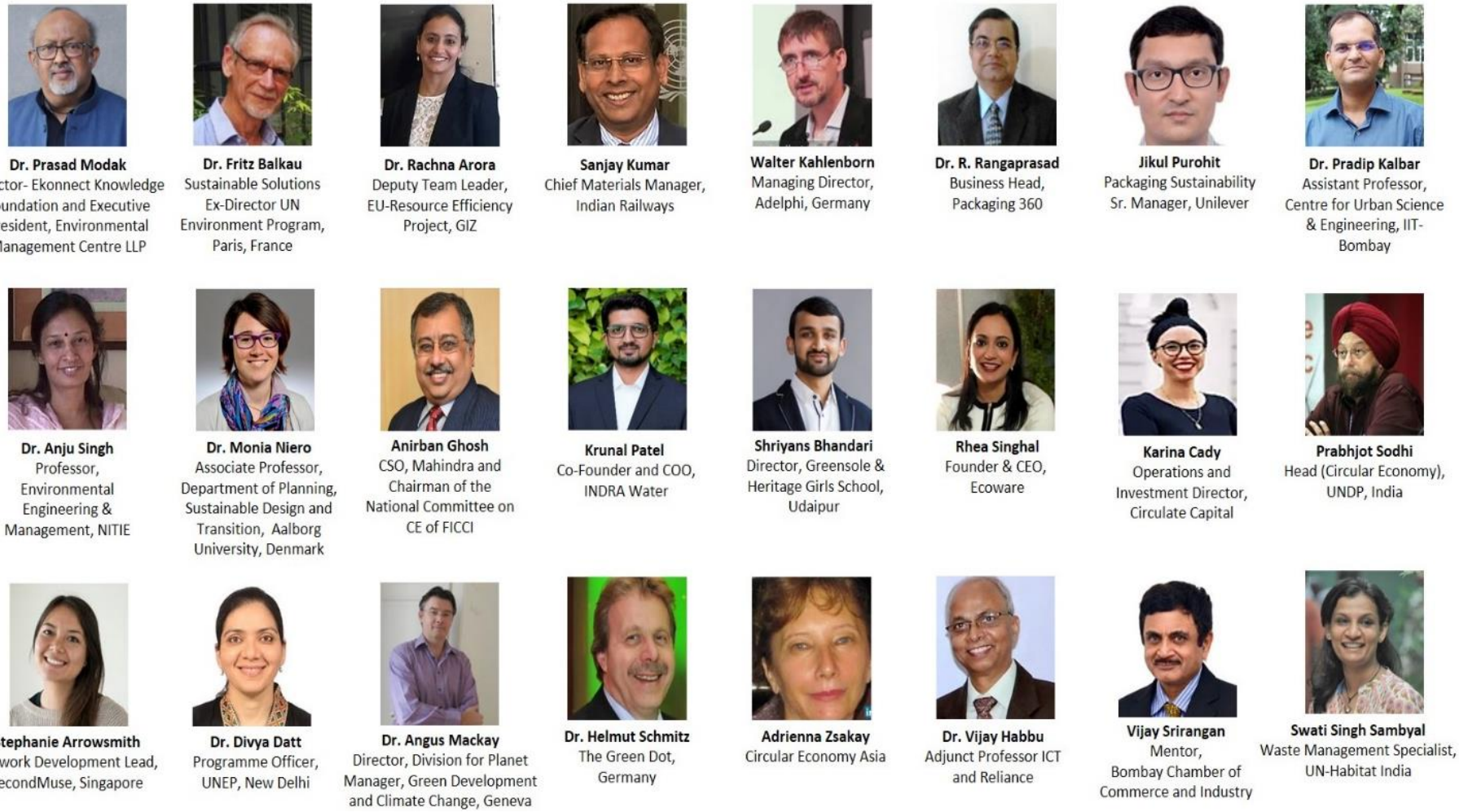


Figure 2: Faculty for International e-School on Circular Economy

3.3. Participant Profiles

A choice was offered to participants for participating either across entire e-School program (all 11 sessions) or select individual sessions based on their experience and interests. 50 participants registered for entire e-School program. In addition, many participants opted for individual or a bunch of sessions based on their interests. Average footfall per session was recorded at 65 participants.

Participation was observed from 11 countries across the world viz., India, Vietnam, Germany, France, China, Portugal, Mauritius, Pakistan, United States of America, Singapore and United Arab Emirates.

Figure 3 presents participants' professional/academic experience[1] in the field of circular economy.

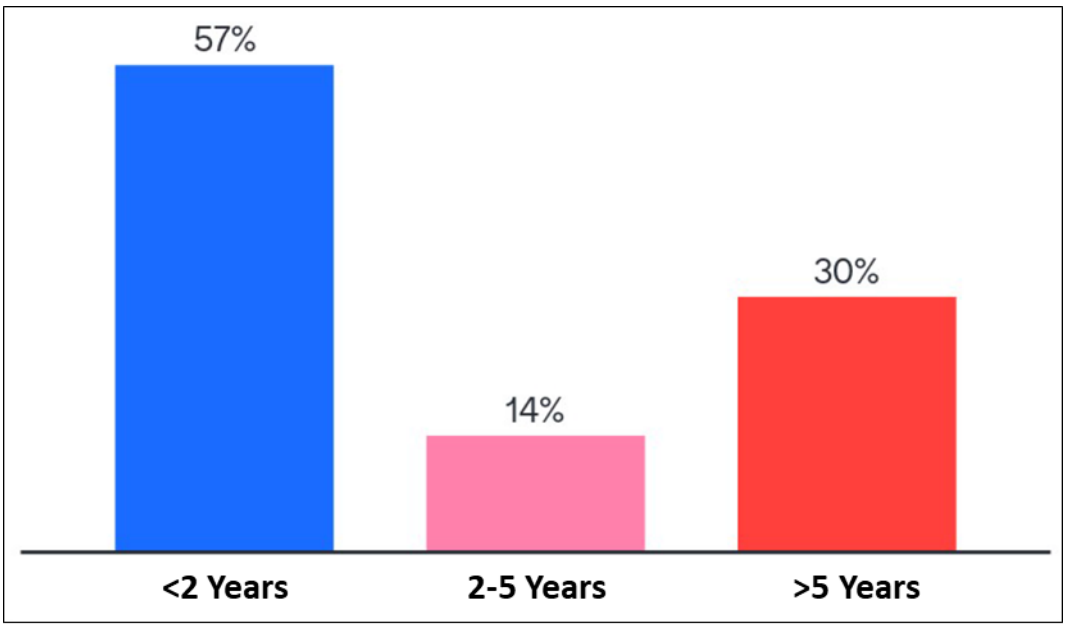


Figure 3: Professional/Academic Experience in Circular Economy

[1] 37 participants shared their experience in this online poll.

4. Outcomes of the International e-School

Through the 11 virtual learning session, 19.5 hours of learning was delivered. The faculties actively engaged with participants through e-chat feature and addressed over 295 questions on the online platform. Additionally, many other questions were addressed live at the end of each session. Certificate of Participation was provided to participants on attendance for all 11 learning sessions.

4.1. e-Compendium

For the purpose of assignment, participants were divided into 10 groups. 10 topics on circular economy were provided to each group. The participants were requested to share their thoughts on the topic assigned in an 8-10 pager note. The 10 topics include:

1. Is Circularity Achievable?
2. Should Circular Economy be legislated?
3. What are the challenges to introduce Sustainable Public Procurement?
4. Should a Circular Product cost more than a "Conventional Product"?
5. Is it always worth to recycle?
6. Should the e-retailers be forced to follow "Sustainable Packaging"?
7. Will formalizing the informal sector work to propel circular economy?
8. Will practicing and scaling-up circular economy help to reduce the impact of COVID-19 pandemic?
9. Will State level Circular Economy Action Plans work? Which agencies should steer such plans?
10. How can you make Circular Economy plans Climate sensitive?

These notes will be reviewed and edited to create an e-compendium. This e-compendium will be shared with all the participants for their further learning. Best articles will be shared on relevant platforms with due credit to the author/s.

4.2. Participants' Feedback

The International e-School on Circular Economy received an extremely encouraging response from participants and faculties alike. Participants rated overall e-School Program at a high score of 8.7 out of 10. Individual session ratings are presented in **Figure 4** below.

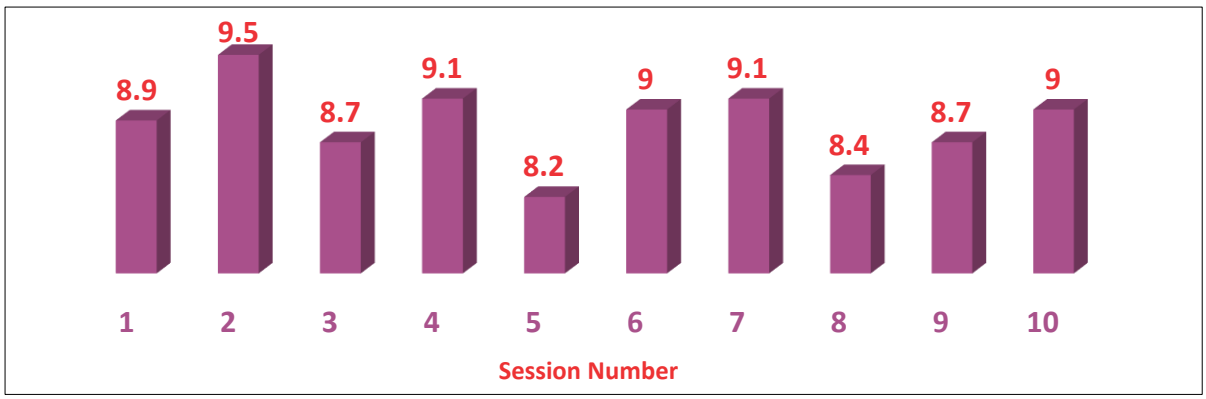


Figure 4: Individual Session Ratings (10 being the highest)

Participants' Feedback

"CE is one of the areas of expertise of Dr. Prasad Modak. I suggest he should also conduct similar webinars on topics like **environmental modeling to pollution control technologies**. If I had not registered and participated, I would have missed something which I would have always repented "

"I appreciate very much the **knowledge and valuable information** you have provided through a series of presentations. I learn a lot from the course both in term of **presenter's huge experiences** and the **methodology** through e-platform. They are real professionals and **high rank experts in CE"**

"Sir, thanks for providing such a **wonderful platform to understand CE** in detail. **Kudos to all the panelist** for presenting such great and **informative** sessions."

"This is **one of the best training courses** I have ever been, both in terms of technical sessions and also the way it has been **moderated and structured**. Thank you to the team. It is a request to **continue with e-learning courses** than physical workshops. Thank you once again."

Participants' Experience

4.3. Support towards COVID-19 Relief Operations

25% of the proceeds received against the participation fees were donated on participants' behalf towards the purchase of Personal Protective Equipment and Daily Essentials for Waste Pickers through designated agencies. Together, we could donate INR 80,000 between two NGOs viz., *Stree Mukti Sanghatana* and *Kashtakari Panchayat Trust* towards supporting 50 women with essentials and 133 waste pickers with Personal Protective Equipment (PPE), respectively for a period of 1 month.

As the e-School program was conducted virtually, we avoided approximately 6 tons of CO_2 emissions[2].

4.4. Way Forward

- An e-compendium will be released based on the assignments submitted by the participants
- A web-based collaborative platform will be created to help continue interactions with participants and mentors. This platform will aim to curate a community of circular economy professionals.
- An opportunity will be provided to participants to publish articles on circular economy in the quarterly newsletter of Bombay Chamber of Commerce and Industries titled 'Sustainability Quotient'
- Service towards providing mentorship to entrepreneurs to come up with circular business models and establish circular businesses will be initiated

5. About Ekonnect

Established in 2012 as a section 25 not-for-profit company, Ekonnect Knowledge Foundation (Ekonnect) offers awareness, training, education and entrepreneurship programs in environmental management and sustainability.

Apart from above, Ekonnect undertakes policy research and action-based projects with community-orientation to catalyse innovations and foster green investments.

We are a small group of people with a passion to build a more responsive and sustainable world.

We wish for businesses, communities and governments to work together for mutual good on a proactive basis. We aim to achieve this mission through programs designed to raise awareness and offer learning on issues and opportunities in environmental management and sustainability.

The idea of a knowledge enterprise that broadly supported diverse stakeholders began much earlier through the work being done by Environmental Management Centre LLP (EMC) founded by Dr. Prasad Modak in 1995. At the turn of the millennium, it was evident that there was a desire for implementable information among a variety of stakeholders (ranging from communities, educational institutions to businesses) on sustainability. To fill this knowledge gap, early programs were developed and delivered through EMC which eventually led to the formation of Ekonnect Knowledge Foundation.

The foundation now serves as a platform for the development of programs as well as their delivery. It draws on the strengths of its team, EMC and a network of associates with vast and deep experience from the sector.

To know more about Ekonnect Knowledge Foundation, visit www.ekonnect.net

[2] For a 3-4 days physical event, emissions would be 7 tons of CO_2 (*Including travel, stay, car travel and 2 vegetarian meals per person per day. Average air travel considered for each participant is 500 kilometres; 200 kilometres travel by road average). While for 11 webinars, the emissions would be 0.09 tons of CO_2. Both the estimates (Physical event and webinar) are for 70 participants. For webinars, only electricity consumption is considered as impact.

6. About our Partners

Indian Institute of Technology – Bombay

Established in 1958, the second of its kind, IIT Bombay was the first to be set up with foreign assistance. The funds from UNESCO came as Roubles from the then Soviet Union. In 1961 Parliament decreed the IITs as 'Institutes of National Importance'. Since then, IITB has grown from strength to strength to emerge as one of the top technical universities in the world.

The institute is recognised worldwide as a leader in the field of engineering education and research. Reputed for the outstanding calibre of students graduating from its undergraduate and postgraduate programmes, the institute attracts the best students from the country for its bachelor's, master's and doctoral programmes. Research and academic programmes at IIT Bombay are driven by an outstanding faculty, many of whom are reputed for their research contributions internationally.

IIT Bombay also builds links with peer universities and institutes, both at the national and the international levels, to enhance research and enrich its educational programmes. The alumni have distinguished themselves through their achievements in and contributions to industry, academics, research, business, government and social domains. The institute continues to work closely with the alumni to enhance its activities through interactions in academic and research programmes as well as to mobilise financial support.

National Institute of Industrial Engineering (NITIE), Mumbai

National Institute of Industrial Engineering (NITIE), formerly National Institute for Training in Industrial Engineering, is a prestigious public management institute located in Powai, Mumbai, and is often ranked among the top 10 Business Schools of India.

National Institute of Industrial Engineering offers post graduate diplomas in various fields of management and industrial engineering. It also offers doctoral level fellowship programs. Annually, NITIE trains over 2000 professionals through its various week long Management Development Programs (MDPs) and the unit based programs (UBPs) in different areas of Industrial Engineering & Management.

Bombay Chamber of Commerce and Industry

Established in 1836, the Bombay Chamber of Commerce and Industry is one of the oldest Chambers in the Country. Bombay Chamber has an illustrious history of 182 years. It is registered under Section 8 of the Companies Act, 2013 (Section 25 of The Companies Act, 1956) a non-profit organisation. Chamber has played a significant role in the development of the city. It was largely responsible for the first railway built in India-The Bombay-Thana railway completed in 1853, has representation on the Port Trust, relentless advocacy postal system led to the passing of the India Postage Act of 1854 and standardization of weights and measures, until in 1932, set up machinery for arbitration of commercial disputes in 1880, Established customs of trade.

The Chamber currently has few thousand members, including a large number of SME's, most reputed large and medium, professionally managed, corporate manufacturing and commercial companies, financial institutions, multinationals, public sector companies, auditors, architects and chartered accountants who together contribute a significant portion of India's trillion dollar economy. The Chamber provides a forum for interaction of its members and formation of considered industry

opinions and viewpoints. These are done under the aegis of the Managing Committee of the Chamber and Expert Committees.

The Chamber has played a significant role in supporting the development of industries in Mumbai over the last several decades. The Chamber serves as an effective vehicle of communication between the regulatory bodies, the corporate and the society. It collaborates with other Industry associations and thus increases its reach to the decision makers beyond boundaries of Mumbai. It also supports a large base of Micro Small and Medium enterprise members and contributes effectively towards overall development of its member companies by addressing core issues and remaining responsive to the needs of business.

7. About India Circular Economy

Awareness about circular economy is gaining momentum in the recent years. Sharing of experiences on this subject is critical. With this in mind, a WhatsApp group named 'Circular Economy' was founded by Dr Prasad Modak to discuss various topics related to a circular economy, particularly in the context of India. The WhatsApp group consists of 90+ members who have a good understanding on the topic of circular economy through years of learning and experience.

Membership to this group is to be applied on the website: www.indiacircularеconomy.com

For every week, Dr Prasad Modak, sets a discussion topic. At the end of each month, the discussions are summarised and uploaded under the 'Discussion Summaries' section on this website. In addition to that, relevant media resources shared on the group are uploaded under the ‘Resources’ section of this website.

8. ANNEXURE

8.1. International e-School Agenda

PROGRAM AGENDA

International e-School on Circular Economy

May 12th -May 26th, 2020

Time: 4:00 pm to 5:30 pm

Online Platform: Zoom Webinars

DAY	SESSION TOPIC	DATE	FACULTIES	
1	**Evolution and Associated Concepts**	**12th May 2020** (Tuesday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP "Circular Economy has evolved over years. But it is not an old wine in new bottle."	**Dr. Fritz Balkau** Sustainable Solutions Ex-Director UN Environment Program, Paris, France "Circular Economy (CE) is a management exercise and not a technology. Regional CE will make a difference."
2	**Policies, Regulations & Economic Instruments**	**13th May 2020** (Wednesday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP "How does the wheel of Circular Economy move? What are the "push" and "pull" strategies? And what works?"	**Dr. Rachna Arora** Deputy Team Leader, EU-Resource Efficiency Project, GIZ Learn about EUs Resource Efficiency Initiative that is helping India in the implementation of SDG-12 - Sustainable Consumption and Production. Visit www.eu-rei.com/index.html

DAY	SESSION TOPIC	DATE	FACULTIES		
3	**Sustainable Public Procurement**	14th May 2020 (Thursday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP What is Sustainable Public Procurement? How do we transit? What are the challenges and opportunities?	**Sanjay Kumar** Chief Materials Manager, Indian Railways SPP can be a real game changer for India.	**Walter Kahlenborn** Managing Director, Adelphi, Germany What is the international experience on SPP?
4	**Sustainable Product and Packaging Design**	16th May 2020 (Saturday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP What are the principles of sustainable product and packaging design? How does Life Cycle Thinking help?	**Dr. R. Rangaprasad** Business Head, Packaging 360 Sustainable Packaging needs to be pushed. What are the challenges and opportunities?	**Jikul Purohit** Packaging Sustainability Sr. Manager, Unilever By 2025, Unilever will halve its use of virgin plastic and accelerate its use of recycled plastic.
5	**Life Cycle Assessment and Material Flow Analyses**	18th May 2020 (Monday)	**Dr. Pradip Kalbar** Assistant Professor, Centre for Urban Science & Engineering, IIT-Bombay Life Cycle Assessment is the heart of CE and an important tool to master.	**Dr. Anju Singh** Professor, Environmental Engineering & Management, NITIE Material Flow Analyses opens up the understanding	**Dr. Monia Niero** Associate Professor, Department of Planning, Sustainable Design & Transition Aalborg University, Denmark

DAY	SESSION TOPIC	DATE	FACULTIES				
				of options on Circularity and helps set priorities.	Tools like LCA and MFA are widely used in Europe and have a great promise in CE		
6	**12 Rs in Circular Economy with Examples**	19th May 2020 (Tuesday)	**Dr. Prasad Modak** Director, Ekonnect Knowledge Foundation Executive President, Environmental Management Centre LLP				
7	**Business Models in Circular Economy**	20th May 2020 (Wednesday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP Business Models in CE	**Anirban Ghosh** CSO, Mahindra and Chairman of the National Committee on CE of FICCI Business Opportunities in CE	**Krunal Patel** Co-Founder and COO, INDRA Water	**Shriyans Bhandari** Director, Greensole & Heritage Girls School, Udaipur	**Rhea Singhal** Founder & CEO, Ecoware
					Listen to the success stories of some of the young entrepreneurs doing business in CE		
8	**Financing in Circular Economy**	22nd May 2020 (Friday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP How to do you raise finance for CE? What are the sources of financing?		**Karina Cady** Operations and Investment Director, Circulate Capital Listen to the experiences of Circulate Capital that focuses on investing in plastic recycling to reduce plastic flows to the oceans		
9	**Partnerships in Circular Economy**	23rd May 2020 (Saturday)	**Prabhjot Sodhi**	**Stephanie Arrowsmith**	**Dr Divya Datt** Programme Officer,	**Dr. Angus Mackay**	

DAY	SESSION TOPIC	DATE	FACULTIES			
			Head (Circular Economy) UNDP, India CE can be best implemented through partnerships between local bodies, businesses, and the informal sector.	Network Development Lead, SecondMuse, Singapore You need to create innovation platforms for promoting entrepreneurship and knowledge exchange in CE.	UNEP, New Delhi Listen to the plans on setting up of a Centre of Excellence on CE – A Joint Presentation	Director, Division for Planet Manager, Green Development and Climate Change, Geneva
10	**International Experience in CE**	25th May 2020 (Monday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP	**Dr. Helmut Schmitz** The Green Dot, Germany The Green Dot is one of the most successful programs in CE as an inspiration to the World.	**Adrienna Zsakay** Circular Economy Asia A lot is happening in CE in the Asia Pacific Region. You need a coalition to take the advantage	
11	**Impact of COVID-19 Pandemic on CE**	26th May 2020 (Tuesday)	**Dr. Prasad Modak** Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP	**Dr. Vijay Habbu** Adjunct Professor, ICT and Reliance	**Vijay Srirangan** Mentor, Bombay Chamber of Commerce & Industry	**Swati Singh Sambyal** Waste Management Specialist, UN-Habitat India

8.2. List of Faculty

Sr No.	Faculty Name	Organization
1	Dr. Prasad Modak	Director- Ekonnect Knowledge Foundation and Executive President, Environmental Management Centre LLP
2	Dr. Fritz Balkau	Sustainable Solutions, Ex-Director UN Environment Program, Paris, France
3	Dr. Rachna Arora	Deputy Team Leader, EU-Resource Efficiency Project, GIZ
4	Sanjay Kumar	Chief Materials Manager, Indian Railways
5	Walter Kahlenborn	Managing Director, Adelphi, Germany
6	Dr. R. Rangaprasad	Business Head, Packaging 360
7	Jikul Purohit	Packaging Sustainability Sr. Manager, Unilever
8	Dr. Pradip Kalbar	Assistant Professor, Centre for Urban Science & Engineering, IIT-Bombay
9	Dr. Anju Singh	Professor, Environmental Engineering & Management, NITIE
10	Dr. Monia Niero	Associate Professor, Department of Planning, Sustainable Design & Transition, Aalborg University, Denmark
11	Anirban Ghosh	CSO, Mahindra and Chairman of the National Committee on CE of FICCI
12	Krunal Patel	Co-Founder and COO, INDRA Water
13	Shriyans Bhandari	Director, Greensole & Heritage Girls School, Udaipur
14	Rhea Singhal	Founder & CEO, Ecoware
15	Karina Cady	Operations and Investment Director, Circulate Capital
16	Prabhjot Sodhi	Head (Circular Economy), UNDP, India
17	Stephanie Arrowsmith	Network Development Lead, SecondMuse, Singapore
18	Dr Divya Datt	Programme Officer, UNEP, New Delhi
19	Dr. Angus Mackay	Director, Division for Planet Manager, Green Development and Climate Change, Geneva
20	Dr. Helmut Schmitz	The Green Dot, Germany
21	Adrienna Zsakay	Circular Economy Asia
22	Dr. Vijay Habbu	Adjunct Professor ICT and Reliance
23	Vijay Srirangan	Mentor, Bombay Chamber of Commerce and Industry
24	Swati Singh Sambyal	Waste Management Specialist, UN-Habitat India

8.3. List of Participants

Sr No.	Name	Organization
1	Dr. Tanisha Dutta	-
2	Vijay Kulkarni	-
3	Atik Sheikh	CII Godrej GBC
4	Dr Anand Palkar	Ignite Creative Ventures
5	Vijay Shivapur	Greenko
6	Swapnil Sonajirao Lahane	Sardar Vallabhbhai National Institute of Technology
7	Karun Tyagi	-
8	Sohaib Aslam	FC College, Lahore
9	Rakesh Vazirani	-
10	Mahesh Harhare	-
11	Dheeraj Nakra	-
12	Anthony Raivellur	Ex Bank of America Employee
13	Surojit Bose	AVP Sustainability and Climate Change ICP
14	Isha Rohan Bhate	SWaCH Co-operative, Pune
15	Sanket Shah	-
16	John Thomas	Alef Eco Consulting LLP
17	Rahul Datar	-
18	Monica Shetty	-
19	Chandrakant Tambe	-
20	Abhijit Padhye	-
21	Kaustubh Phadke	GCCA India Private Limited
22	Manan Pahwa / Shashank Nimkar	Earth Tatva
23	Prahlad Kumar Tewari	The Energy and Resources Institute (TERI
24	Dr. Shilpi Kapur	The Energy and Resources Institute (TERI
25	Dr. Seema Mishra	SIES Indian Institute of Environment Management
26	Lovish Ahuja	TOMRA SORTING INDIA PRIVATE LIMITED
27	Tapan Wagle	TA&P EHS Consultants Pvt Ltd
28	Bhalchandra V. Bailur	Expert Engineering Enterprises
29	Tarun Shesh	BlackForest Solutions
30	Hamsa Iyer	Maharashtra Knowledge Corporation Limited
31	Indrani Ghosh	-
32	Promila Sharma	Pure Earth
33	Chaitanya Sathe	-
34	Rajiv RAMLUGON	Omnicane Management & Consultancy Limited
35	Morgane Lassaux	-
36	Mrs. Nguyen Thi Bich Hoa	Asian Institute of Technology in Vietnam (AIT-VN
37	Mrs. Pham Thi Thanh Thuy	Asian Institute of Technology in Vietnam (AIT-VN
38	Sofia Pereira	APDES - Agência Piaget para o Desenvolvimento
39	Lekha Thakkar	-
40	Pawan Mulchandani	Siemens Ltd
41	Sharad Tandon	-
42	Sakshi Gore	Grassroutes Journeys
43	Sumskrutha Talupula - Kutti	ICLEI South Asia
44	Shantanu Roy	-

45	Meghna Sharma	-
46	Zoya Versey	-
47	Rajiv Indimath	-
48	Jyoti Palekar	STEP Private Limited
49	Vaibhav Adhyaru	Umicore India Private Limited

8.4. International e-School Report Card

International e-School on Circular Economy

May 12th – May 26th, 2020

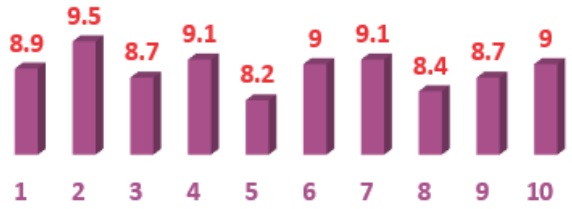
e-School Report Card

- **11** COUNTRIES#
- **50*** PARTICIPANTS FOR ALL SESSIONS
- **24** DISTINGUISHED SPEAKERS
- **11** SESSIONS
- **19.5** HOURS OF LEARNING
- **295+**** Q&A ADDRESSED

Participation from 11 countries viz. India, Vietnam, Germany, France, China, Portugal, Mauritius, Pakistan, USA, Singapore, UAE

***15 Additional Participants per Session**

****Questions addressed live across 11 sessions, not included**



Session Ratings (10 being the highest)

Participants' Overall Feedback

8.7/10

Effectiveness of e-School as rated by Participants

Participants' Experience

"CE is one of the area of expertise of Dr. Prasad Modak. I suggest he should also conduct similar webinars on topics like **environmental modeling to pollution control technologies**. If I had not registered and participated, I would have missed something which I would have always repented "

"I appreciate very much the **knowledge and valuable information** you have provided through a series of presentations. I learn a lot from the course both in term of **presenter's huge experiences** and the **methodology** through e-platform. They are real professionals and **high rank experts in CE"**

"Sir, thanks for providing such a **wonderful platform to understand CE** in detail. **Kudos to all the panelist** for presenting such great and **informative** sessions."

"This is **one of the best training course** I have even been, both in terms of technical sessions and also the way it has been **moderated and structured**. Thank you to the team. It is a request to **continue with e-learning courses** than physical workshops. Thank you once again."

"360-degree coverage in 11 sessions , really great sessions"

Together, we donated **INR 80,000** between two NGOs towards supporting **50 women** with essentials and **133 waste pickers** with Personal Protective Equipment (PPE) for a period of 1 month

Through this e-School, we avoided ~6 tonnes of CO_2 emissions

Stree Mukti Sanghatana (Women's Liberation Organization)

Stree Mukti Sanghatana

Kashtakari Panchayat

International e-School conducted by
Ekonnect Knowledge Foundation
with support from
Indian Institute of Technology, Bombay
National Institute of Industrial Engineering (NITIE) and
Bombay Chamber of Commerce and Industry (BCCI)

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8.5. Participants' Feedback

- *"It was a wonderful experience and learnt many aspects related to the subject. It has helped me to understand key challenges and solutions for Circular Economy. And it was different from many programs, as we had speakers who were sharing their experience from the work they do pertaining to CE. Many congratulations to you and Sivaranjani Ma'am also for managing it so well."* - Atik Sheikh

- *"I would like, on behalf of our team, to thank you Dr. Prasad Modak, Sivaranjani and your team very much for the opportunity you brought us to the e-course in CE. We appreciate very much the knowledge and valuable information you have provided through a series of presentations. I learn alot from the course both in term of presenter's hug experiences and the methodology through e-platform. They are real professionals and high rank experts in CE.I am very happy and honoured to receive the certificate in International E-school in CE. I appreciate very much the value of the course brought to me."* - Nguyen Thi Bich Hoa

- *"It was a good exposure to me on Circular Economy and many good learning apart from just 3R which we used to follow in a very small way."* - Bhalchandra Bailur

- *"The e-school on the circular economy was insightful and I came across a lot of new ideas and learned new concepts. The handpicking of topics by Dr. Modak and the Ekonnect team was very much evident. A big thank you to Dr. Modak and you all at EMC (attended classes after a while ☺) along with your supporting institutes of IIT - Mumbai, NITIE, and Bombay Chamber of Commerce."* - Kaustubh Phadke

- *"Thank you for the wonderful opportunity to learn about circular economy. Apart from subject learning, school gave an opportunity to understand thoughts, actions and funding opportunities at the national and international level and provided an opportunity to interact with multiple stakeholders & leaders in the area. Today when shared values and collaborations are necessary components of successful projects, the school provided huge knowledge database and a networking platform."* - Jyoti Palekar

- *"I would like to express my sincere gratitude for organising this e-School on Circular Economy. I have been truly benefited by attending this school and it would go a long way in my professional career. I also plan to pursue my doctoral research leading to PhD in resource efficiency and circular economy. I humbly seek your kind guidance and support in my academic pursuit. I look forward to be in touch with you and thank you once again for such an insightful well organised Summer School."* – Prahlad Kumar Tewari

Contact

Prasad Modak
Director, Ekonnect Knowledge Foundation
prasad.modak@ekonnect.net

Sivaranjani Subramanian
Associate Vice President
sivaranjani@ekonnect.net

Ekonnect Knowledge Foundation

504/505, 5th Floor, Balarama Building,
BKC, Near MMRDA Office,
Bandra (East) Mumbai – 400051
www.ekonnect.net

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