

Circular Economy Roundtable- Ahmedabad

1.0 Organisers:

Ekonnnect Knowledge Foundation Mumbai (www.ekonnnect.net) and Faculty of Planning, CEPT University (<http://cept.ac.in/faculty-of-planning>)

2.0 Date:

12th February 2018

3.0 Time:

10:00-13:00 hours

4.0 Venue:

CEPT University



5.0 Background:

The subject of Circular Economy (CE) has evolved today as an effective strategy towards economic development and sustainability. Internationally, CE has been practiced in several countries notably in EU, Japan, Korea, South Australia and even legislated in countries such as China. In 2015, the Ministry of Environment & Forests & Climate Change (MoEFCC) established Indian Resource Panel (InRP). Based on the situation analysis and opportunities identified by the InRP, the NITI Ayog has started focusing on Resource Efficiency and Secondary Material Recycling that are the foundations of CE.

Recently, a vibrant international network of CE professionals has been established as Circular Economy Club (CEC) (<https://www.circulareconomyclub.com/>). In order to promote CE on a global basis, Circular Economy Club coordinated a Mapping Week (7th -12th February 2018) across 60+ cities in the world. Ekonnnect, an active partner with CEC, conducted roundtables on CE in Ahmedabad and Pune during the Mapping week and jointly organized a roundtable in Chennai with the Madras Chamber of Commerce and Industry.

The roundtables also provided an opportunity to introduce the Leadership Program on Circular Economy, receive feedback and establish connections.

6.0 Objectives:

Introduce the concept of CE, its benefits, challenges and the capacity development needs – especially on the leadership that needs to be built in cities, business houses, financing institutions, planners and regulators, research & academia and NGOs.

Receive inputs for the design of the E-learning and F2F Leadership programs that are proposed with Green Industries South Australia (GISA).

7.0 Summary of Sessions:

Session I:

Dr. Prasad Modak, *Director, Ekonnnect Knowledge Foundation* briefed the participants on the concept and evolution of CE and introduced the Leadership Program on CE.

Session II:

Three eminent CE practitioners : Dr. Praveen Nahar from National Institute of Design, Hardik Shah from Ministry of Environment, Forests and Climate Change and Dinesh Yadav from Arvind Envisol.

Session III:

The participants engaged in an open forum discussion on the challenges towards implementation of CE and need for capacity building. Participants were individually asked to pen down examples of CE and thoughts on how it can be implemented within the city.





8.0 Key Takeaways:

- **Redesign in Circular Economy:** The presentation was focused on the redesign component of circular economy which is not widely adopted or understood in India. The discussion revolved around the need for greater sensitization and collaborations among industries for successful product redesign initiatives.
- **Textile Industry and Water Management:** The second session emphasised on the importance of waste management and safe waste water treatment in the textile sector. The idea of water recycling and reusing in the view of the impending water scarcity was also a central discussion point.
- **Policies and Strategies:** The third presentation brought into light the significance of policies in supporting environmental initiatives. The discussion brought out cases like co-incineration, co-processing of hazardous wastes by cement industry and waste exchange platform.

9.0 Mapping of Initiatives:

Wish list:

Water	Waste	Energy	Material/ Food	Policy/ Strategies
Usage of sewage for irrigation and industrial applications	Grasses/fodder crops recycling	Improve Energy Efficiency in Industries	Materials Recycling	Awareness
Energy from Sewage Treatment Plants	Waste to usable products	Solar Rooftops to be scaled up	Product repair and recycling	Regulatory push
District cooling system of a CBD using treated waste water	Resource Recovery Systems			Government Policies

Examples:

Water	Waste	Policy/Strategies
Treated Sewage for power plants-Nagpur	Ship Recycling in Gujarat	Dual Plumbing lines for Greywater recycling for G+2
Water recycling and reuse in some Ahmedabad townships	Waste Management in Surat	Electric Vehicle Policies
	SWaCH in Pune	
	Recycling used footwear-Mumbai	
	Use of plastics in construction-Bangalore	
	Ambikapur Solid Waste Management	
	Sewage management measures by Rajkot Municipal Corporation	

10.0 Next Steps:

All participants were requested to fill in an online questionnaire for assessing Training Needs on Circular Economy. Results of the survey are expected this week. These results will be factored in the design and content development of the E-learning and F2F courses on Circular Economy.

Annex I: List of Participants

SR. NO	NAME	Organisation	EMAIL ID
1.	Mr. Hardik Shah	PS to Environment & Forests & Climate Change	ps2mefcc@gov.in
2.	Mr. Dinesh Yadav	Arvind Envisol Ltd	dinesh.yadav@arvind.in
3.	Prof. Praveen Nahar	NID	pnahar@nid.edu
4.	Dr. R Parthasarathy	GIDR	parthasarathy@gidr.ac.in , r.parthasarathy@yahoo.com
5.	Mr. Pranab Nanda	GIDB	pnanda@gidb.org
6.	Prof. Kartik Bhatt	Gujarat University, Department of Economics	kartikmbhatt@gmail .com
7.	Ms. Meghna Malhotra	UMC	meghna@umcasia.org
8.	Mr. Ravi Kalantri	Innovative Eco Care Pvt. Ltd.	ravi_kalantri@yahoo.com
9.	Ms. Kratvi Sheth	ENY	kratvi.seth@in.ey.com
10.	Mr. Vijay Kothari	WOW	wow@waspap.com
11.	Mr. Vasant D. Patel	Excel Industries Ltd. Ahmedabad	vasant.patel@excelind.com
12.	Ms. Vibha Desai	IL&FS Education	Vibha.Desai@ilfsindia.com
13.	Mr. Loveleen Garg	GIFT	loveleen.garg@giftgujarat.in

14.	Prof. Manvita Baradi	UMC	Manvita@cept.ac.in
15.	Ms. Apurva Mathur	XYNTEO	apm@xynteo.com
16.	Mr. Jitendra Lonkar	GIFT	jeetuu21@gmail.com
17.	Ms. Jaladhi Vavaliya	C-was CEPT	Jaladhi.vavaliya@cept.ac.in
18.	Prof. Urvi Desai	CEPT	urvi.desai@cept.ac.in
19.	Ms. Dipsha Shah	CEPT	dipsha.shah@cept.ac.in
20,	Dr. Mona iyer	CEPT	Mona.iyer@cept.ac.in
21	Dr. Neeru Bansal	CEPT	Bansal.neeru@cept.ac.in
22.	Prof. Subhrangsu Goswami	CEPT	Sggoswami32@gmail.com
23.	Prof. Tushar Bose	CEPT	tushar.bose@cept.ac.in

Annex II: Speakers

Hardik Shah



Hardik Shah is the Private Secretary to the Minister of State Environment, Forest & Climate Change, Government of India (I/C).

Hardik Shah is Master's in environmental engineering by qualification who also received fellowship from the Kennedy School of Government, Harvard University in 'Developing Design for Applicability of US Water Quality Trading Program in Indian Scenario'. He has also received bachelor's degree in law, Gujarat University, Master of Engineering in Environmental Management, Gujarat University and a post graduate certificate in Environment Impact Assessment from University of Manchester.

He is presently serving as a PS to the Minister of State Environment, Forest & Climate Change, Government of India. He has served as an Additional Collector, Himatnagar (Sabarkantha) district, Member Secretary, Gujarat Pollution Control Board, Government of Gujarat and Secretary, Gujarat State Expert Appraisal Committee constituted by the Government of Gujarat for implementation of EIA Notification, 2006 in State. He was appointed as a Senior Technical Officer and Under Secretary, Department of Forests and Environment, Government of Gujarat after completing his graduation. He has also received the "Special Recognition Award" as a Member Secretary, GPCB for e-Governance under 'Environment Category' by CSI Nihilente-Governance Awards 2009-2010.

Praveen Nahar



Praveen is a Product Designer, Senior Faculty in Industrial Design, heads Product Design Programme at National Institute of Design (NID) Ahmedabad INDIA. He also chairs International Programmes at NID. IIT Delhi and TU Delft Alumni, Praveen teaches and has research interests in Systems Thinking and its relation to Design Thinking, Design in the Public Domain, Sustainable Design/Green Design, Appropriate Technology. In recent years, he has been actively involved in academic projects with students that are related to Sustainability and Systems Thinking and Design that deal with complex issues ranging from healthcare to mobility.

He is one of the key contributors to School of Systems Change in UK and Relating Systems Thinking to Design (RSD) Symposiums in Norway/Canada. With over 21 years of experience in design teaching and consultancy, Praveen has been involved at both micro and strategic level in various sectors of the industry and social sector. Praveen has lectured and conducted design workshops and seminars on the subject all over the world. Praveen is also an Indian liaison for the O2 Ecological Design Global Network.

Dinesh Yadav



Mr Dinesh Yadav is the Director & chief executive officer at Arvind Envisol, a 100 % subsidiary of Arvind Limited, the 1.3 billion \$ global textile conglomerate and a flagship company of the Lalbhai group. He also acts as CEO – Projects for Arvind Limited, heading the Energy, Environment and Engineering aspects of the Lalbhai Group Companies.

Mr Dinesh, is a mechanical engineer with an MBA by education. Mr Dinesh has staunch experience of 36 years in the field of energy and environment and has handled power plant projects of 110 MW capacities and has been associated with Arvind since 1997. Mr Dinesh has been instrumental in shaping group's strategy in energy and environment space and for exponential growth of Anup Engineering, the heavy engineering business arm of Arvind Limited. Today, Envisol boasts of 22 patents in the field of waste water treatment and zero liquid discharge solutions across the globe, whose credit can be given to him. Arvind Envisol was founded by him as consulting firm and today it is India's leading EPC water Management Company with global presence. Mr Dinesh is passionate about sustainability and technologies that can make world a better place to live in. For this year 2017-18 he has been elected as Vice chairman of Confederation of Indian Industries – representing Gujarat State's more than 590 Industries.