



*Learn Build and Connect for a Circular Mumbai
with Talks, Workshops and Networking*

EVENT REPORT

THEME: Waste Management

Monday, November 12th, 2018 9:00 am – 6:00 pm



OSCE Days Mumbai - Event Brief

About OSCE Days

The Open Source Circular Economy Days (OSCEdays) is an open group of people that started in 2015 with a global event promoting Open Source as the key driver for a Circular Economy. In the past years, OSCE days as a knowledge transfer platform has managed to gather people from politics, business, science, tech & startup scene and NGOs to share, discuss and develop circularity solutions together.

Objective of OSCE Days Mumbai

- Provide inspiration, new knowledge and showcase new possibilities of a circular economy in the Indian market.
- Train participants on how to flourish in the new global trend of sustainable economic development.
- Create awareness on circular economy, the need of recycling, anti-littering, environmental protection, and reduction of disposables, especially for students and young professionals.
- Showcase “hands-on” and easily adaptable circular economy approaches, e.g. home composting, textile upcycling, furniture upcycling, mindful design, etc.
- Allow companies and start-ups to discover new materials, new ways of operating, business opportunities, and generate competitiveness.

Speaker Profiles

	<p><u>Dr. Shrikar Dole, Founder, CEO, SDG Foundation</u> He has worked in the area of sustainability for the last 20 years in various capacities both with governments and with the private sector.</p>
	<p><u>Dr. Prasad Modak, Executive President, Environmental Management Centre</u> He worked in the Ministry of Environment and Forests and Climate Change Asian Institute of Technology has done his MTech in Environmental Science and Engg.</p>
	<p><u>Wilma Rodrigues, Founder and CEO, Saahas Waste Management Pvt Ltd</u> She worked as a Business Journalist in Mumbai with BusinessWorld magazine and the Times of India, Assistant Editor of the Indo-German Economy, an Indo-German Chamber of Commerce Publication.</p>



Dr Rajesh Manerikar, CEO, Poornam EcoVision Foundation

Impanelled expert for Municipal Solid Waste (MSW) and hazardous waste as per NABET accreditation scheme for EIA consultants.



Sumedh Bapat, Independent Consultant and Technical Expert of Waste Management

He has been Technical Director at NobelExchange Environment Solutions Pvt Ltd., Technical Director at Green Elephant Engineering Pvt Ltd, Technical GM at Excellent Renewable Private Limited, Technical VP at Spectrum Renewable Energy Pvt Ltd.



Rahul Nainani, Co-founder and CEO at RaddiConnect

A social entrepreneur with a finance background currently on a mission to overhaul the waste management system in country by finding a sustainable solution that is not only self-sufficient but also has a positive impact towards the society.

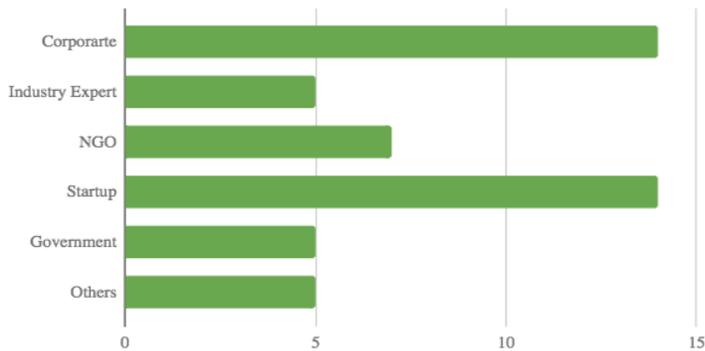


Felly Gomes, Founder, Live Happy NGO

Felly Gomes has been working in the Community development and Waste Management sector in Asgaon village of Goa from past many years. His organization works on awareness of these social issues through various interactive platforms.

Audience diversity

Audience Representation



Total Attendees: 50

The event witnessed a diverse audience representing different stakeholders in the economy, including corporates, industry experts, NGOs. Startups, government, students and others.

Session Topics and session highlights/learnings

1. Introduction to Waste Management and Circular Economy

- Transparency in manufacturing processes and material production
- Products that can be understood, taken apart and repaired
- Share knowledge of how resources flow throughout our system
- Ecological problems are shared by all of us – any solutions need to be shared too

Early Waste management was focused on collection, transport, and disposal of waste (end-of-pipe solutions). Even today, it still is about Disposal Management. The "3 R"

- Reduce, Reuse and Recycle focuses largely on point of consumption. Focus need to shift from point of consumption to point of extraction and production.

To create a complete circular economy, along with reducing, reusing and recycling, there needs to be refurbishing, remanufacturing and repairing.

Several eco-entrepreneurs are entering into the largely untapped waste management space, which is expected to be worth \$13.62 billion in India by 2025

Circular Economy is feasible only if we have viable and innovative business models encompassing the entire supply chain.

Five Business Models for Circular Economy:

- Circular Supply Chain
- Sharing Platform
- Product as a Service
- Product Life Disposal
- Recovery and Recycling

2. Sensitizing green startups and social enterprises on linking with voluntary carbon markets

- Carbon Market is one of the measures to mobilize financing for emission reductions.
- A carbon tax establishes a price on emissions whereas a cap-and-trade program issues a set number of emissions "allowances" each year that can be auctioned or traded.
- Cap and Trade offers certainty regarding emission reductions and flexibility in meeting those targets.
- One of the key tools to mitigation is adoption of market mechanisms. India had success in Clean Development Mechanism and is suited for future carbon markets.
- PAT is an existing market mechanism for energy efficiency in selected sectors. The objective is to enhance capacities of stakeholders to use existing and emerging carbon market and climate finance instruments for the implementation of mitigation activities tailored to the national contexts and help in achieving NDCs.

3. The economics of waste Management - The value chain of waste management

Saahas Zero Waste is a social enterprise that provides end-to-end waste management services to bulk waste generators based on the principles of circular economy

90% of resources can be recovered from waste given our waste management systems are strong.

Saahas uses a holistic and decentralized approach to recover most of this waste from various point of sources in Bangalore to create value added products out of waste.

These products and service revenues has made this model economical and sustainable.

4. Biogas from Waste

NobelExchange Solutions has been working on bio waste management exclusively on Anaerobic Digestion Technologies.

It is a success story of setups and processes for generating energy out of waste through bio-gas by taking proper safety measures and looping government and other local stakeholders for a sustainable model of bio-waste management.

The approach and system has shown real impact to be taken at policy level. The systems can be built for waste management with central support if proof of concept is strong enough.

5. An emerging model for paper and plastic recycling

RaddiConnect is an emerging startup in Mumbai dealing with lack of awareness, informal economy and lack of infrastructure around waste management.

The major focus is on paper and plastic waste management collected through a large informal group in India called "Raddiwalas".

6. Community Awareness for Waste Management

One of the major issues of waste being wasted is around awareness among the people on how to manage the waste at source and take a common responsibility of it as a community. This is one of the major works done by Live Happy NGO in Asagaon, Goa. Taking a path of local elements like music, poems and yoga, multiple campaigns and initiatives have been run by the organization to not only get the local people involved in the process but also bring effective push and participation of local government.