

IGCW2025 - Technical Session on "Sustainability & Green Chemistry Metrics"

Venue for IGCW2025: Hotel Westin Mumbai Garden City, Goregaon (E), Mumbai, India

Date for this Technical Session: **7th November'2025 (Tuesday)**

Expected Participants: Chief Sustainability Officer, Head-EHS, VP-EHS, GM-EHS, GM-Production, LCA Professionals, Sustainability Professionals, etc

Expected No. of Participants: approx. 25 - 30

Objectives:

1. Decoding Key Sustainability Terminologies

- Provide clear definitions and contextual examples for essential terms such as net zero, carbon footprint, decarbonization, Science-Based Targets initiative (SBTi), life cycle assessment (LCA), and circularity. Enable participants to interpret sustainability language in business and regulatory contexts.

2. Fundamentals and Industrial Applications of Life Cycle Assessment (LCA)

- Introduce the core principles and methodologies of LCA for measuring environmental impacts across product and process lifecycles. Showcase real-world case studies.

3. Understanding and Applying Sustainability Metrics

- Examine vital sustainability metrics, including Science-Based Targets (SBTi), Product Carbon Footprint (PCF), and other benchmarks critical to tracking progress toward environmental goals. Equip participants to interpret, implement, and communicate these metrics effectively within their organisations.

4. Leveraging Digital Tools, AI, and Machine Learning in Sustainability Metrics and Reporting

- Explore and highlight the potential of AI and machine learning in efficient data collection, management, enhancing data accuracy, predictive analytics, automated sustainability assessments and reporting.

5. Building Partnerships with Sustainability Solution Providers

- Create opportunities to network with providers of innovative sustainability tools, platforms, and consulting services. Facilitate exchanges of best practices, new technologies, and collaborative approaches.

Timing	Speaker, Designation, Company	Topics	Context & Content/Comments
8:30 - 9:30 hr	Registration, Tea/Coffee, Networking, Visiting IGCW Expo		
9:30 - 9:40 hr	Mentors for the Session	Welcome, Acknowledgement, Self-Introduction & sharing work, Creating Context for the workshop, Introducing Keynote Speaker	

9:40 - 10:15 hr	Mr. Ananda Sekar, Leader, LCA Global Centre of Excellence, SABIC Mr. Rajesh Mehta, Senior Consultant - Energy & Materials Transition, TNO Ms. Avantika Shastri, Manager, Centre for Sustainability, Eaton	Decoding Sustainability Terminologies / Demistifying Carbon Jargon	30 min PPT, 5 min Q&A
10:15 - 10:45 hr	Mr. Jaikishan Venkat, Chief Strategy Officer, Hindustan Platinum (Invited)	Title of Talk awaited (Topics - Sustainability Initiatives at Hindustan Platinum)	25 min PPT, 5 min Q&A
10:45 - 11:30 hr	Tea/Coffee Networking Break, Visiting IGCW Expo.		
	Session on Life Cycle Assessment (LCA)		
11:30 - 11:55 hr	Prof. Dubey Professor, Circular Engineering (Dept. of Civil Engg.) and Chairperson, School of Water Resources, IIT-Kharagpur	Title of Talk awaited (Topic - Basics of LCA)	25 min PPT
11:55 - 12:20 hr	Dr. Rajesh Singh, Vice President - Sustainability Consulting, Sphera	Title of Talk awaited (Topic - LCA Automation Tools and other Sustainability Tools)	25 min PPT
12:20 - 12:45 hr	Mr. Sunil Kumar, Head, SIPL Pvt. Ltd.	ERA LCA-Chem - Sustainable solution for Chemical and Pharma domains	25 min PPT
12:45 - 13:10 hr	Mr. Gulab Malunekar, Research Scientist - LCA, Dow India Technology Center	Beyond the Surface - A Journey through Life Cycle Assessment	25 min PPT
13:10 - 13:30 hr	Moderator: Prof. Brajesh Kumar Dubey	Q&A and Open Discussion	20 min Open Discussion
13:30 - 14:30 hr	Lunch Break, Visiting IGCW Expo.		
14:30 - 15:00 hr	Ms. Ashwini Higne, Associate Program Director - Climate Program, World Resources Institute (Invited)	Title of Talk awaited (Topic - Road to Net Zero / Carbon Markets)	25 min PPT, 5 min Q&A
15:00 - 15:30 hr	Mr. Mike Danielson, Industry Lead, SBTi	Climate Action and Science-based Target-setting in the Chemicals Sector	25 min PPT, 5 min Q&A
15:30 - 16:00 hr	Mr. Masaaki Toma, Research Planning & Coordination and Dept. of Carbon Neutral Strategy Cross-Functional Team, Sumitomo Chemicals Co, Ltd.	Title of Talk awaited (Topic - Carbon Footprint of Product)	25 min PPT, 5 min Q&A

16:00 - 16:20 hr	Mr. Pater Saling, Director - Sustainability Methods, Together for Sustainability (TFS) (Invited)	Title of Talk awaited (Topic - Product Carbon Footprint PCF / Tfs5.1)	15 min PPT, 5 min Q&A
16:20 - 16:40 hr	Mr. Biju Baby, Co-Founder, Bacuti Inc.	Modernizing PCFs	15 min PPT, 5 min Q&A
16:40 - 17:00 hr	Moderator: Ms. Avantika Shastri, Manager, Centre for Sustainability, Eaton Panel Members: 1. Mr. Rajesh Srinivasaraghavan, Co-Founder, Bacuti 2. Mr. Rajesh Mehta, Senior Consultant - Energy & Materials Transition, TNO 3. Ms. Hiranmayee Kanekar, Consulting Manager - ESG & LCA Consulting, Ramboll 4. Ms. Hetal Udas, Manufacturing Success Team Leader, One Click LCA	Panel Discussion: AI Deployment for Sustainable Metrics in the Chemical Industry	15 min PPT, 5 min Q&A
17:30 - 17:40 hr	Mentors for the Session	Closing Remarks & Acknowledgements	
17:40 - 18:00 hr	Tea/Coffee Break, Visiting IGCW Expo		

Academia Mentor: Prof. Brajesh Kumar Dubey, Professor - Circular Engineering (Dept. of Civil Engg.) and Chairperson - School of Water Resources, **IIT-Kharagpur**

Industry Mentors: Mr. Anand Sekar, Leader, LCA Global Centre of Excellence, **SABIC**
Mr. Rajesh Mehta, Senior Consultant, Energy & Materials Transition, **TNO**
Ms. Avantika Shastri, Manager, Centre for Sustainability, **Eaton**