

Conference Agenda

Sustainable Future: Technology & Policy Action to Mitigate Climate Change

October 15, 2024 | Hotel Westin, Goregaon East, Mumbai

10.00 hrs - 10.30 hrs Inaugural Session

Track I –

**Resolving India's Water &
Wastewater Management**

Track II –

**Rethinking Solid Waste
Management in India**

Financing and Digital to deliver Scale, Speed and Savings for the Water Sector in India

10.30 hrs - 11.20 hrs: Panel Discussion

Discussion Points:

- Deployment of smart water management systems in commercial and institutional settings to monitor & control water usage efficiently.
- AI in analyzing water usage patterns & predicting future needs to improve efficiency
- Blockchain technology to enhance transparency & traceability in water management processes
- How sensor tech detects leaks, monitors water quality, and automates controls in commercial & institutional facilities
- Leveraging advanced technologies to cut operational costs & to optimize water management in businesses & institutions



EPR – Extended Producers Responsibility - Key enabler to achieve circular economy in India

10.30 hrs - 11.20 hrs: Panel Discussion

Discussion Points:

- How well-designed EPR legislation incentivizes innovation & investment in sustainable design of products & packaging
- Role of ambitious yet pragmatic EPR targets in advancing solid waste circularity & responsible waste management
- Evolving producer sentiment since enactment of EPR rules – Look at behaviour, outlook, approach, & intent
- How implementation of successful EPR schemes offer multifaceted contribution to sustainable waste management
- Assessing broad applicability of EPR guidelines: Impact of incentives like design-for-recycling & percentage of recycled fibres used on textiles, electronics, tyre waste reduction
- Benefits for Indian companies in ensuring EPR compliance
- Looking ahead: How will EPR policies drive manufacturer strategies in future



Advanced membranes and materials for water and wastewater treatment

11.30 hrs - 12.20 hrs: Panel Discussion

Discussion Points:

- With 18% of world's population holding only 4% freshwater resources, India's freshwater shortage requires policy, regulatory, & innovation-led redressal
- Need for wastewater treatment in solving for the water crisis with emphasis on tech-led modernization
- Adoption of chemical-free, low energy demand, small physical footprint, & ecofriendly approaches to water treatment
- Examining gaps & opportunities for research of membrane-based tech
- Assessing viability of commercialization of membrane-based tech to treat & reuse wastewater
- Understanding current market size & scope of opportunities for membrane tech adoption



Reimagine the way we Produce, Consume & Dispose plastics

11.30 hrs - 12.20 hrs: Panel Discussion

Discussion Points:

- Role of enabling environment for phasing out single-use plastics
- Impact of EPR guidelines in combatting the plastic waste problem
- Reimagining plastic waste as energy solutions & construction materials
- Need for infrastructure modernization and upgradation to collect & dispose plastic waste in environmentally-sound manner
- How innovative packaging & creative recycling systems are combatting plastic pollution
- Reinventing waste recycling management systems globally to keep abreast with waste generated
- Encouraging consumer awareness & consumer participation in combatting plastic pollution
- Role of educational campaigns, public awareness events, & Government initiatives in influencing producer & consumer behaviour towards India's plastic waste problem



Smart Water Management in Commercial and Institutional Market Segments

12.30 hrs - 13.30 hrs: Panel Discussion

Discussion Points:

- Deployment of smart water management systems in commercial and institutional settings to monitor & control water usage efficiently.
- AI in analyzing water usage patterns & predicting future needs to improve efficiency
- Blockchain technology to enhance transparency & traceability in water management processes
- How sensor tech detects leaks, monitors water quality, and automates controls in commercial & institutional facilities
- Leveraging advanced technologies to cut operational costs & to optimize water management in businesses & institutions



Fostering Circular Fashion in Textile & Apparel sector

12.30 hrs - 13.30 hrs: Panel Discussion

Discussion Points:

- Deploying sustainable materials to improve product design & reduce wastage
- Need for investments in recycling facilities & collection centres to improve infrastructure supporting circularity
- Value chain education & awareness: L&D for stakeholder members on benefits of circularity & how to contribute to it
- Government as enabler: Providing incentivization for adoption of sustainable practices and industry regulation to mitigate environmental impact
- Role of industry investment in R&D to develop new technologies & manufacturing practices to support circularity
- Role of consumer engagement & awareness: Simplifying identification & purchase of sustainable products & recycled clothes
- End-of-Life management of post-consumer waste – Need for recycling, upcycling, donation, & other practices in waste mitigation



Advanced Technologies for Sewage Treatment Plants

14.30 hrs - 15.20 hrs: Panel Discussion

Discussion Points:

- Role of digital transformation in improving efficiency & quality of treated water
- Advanced treatment methods to improve wastewater treatment process efficiency
- Future of decentralized treatment systems, smart monitoring tech, & renewable energy integration in Sewage Treatment Plants (STPs)
- Tech-led innovation in combatting theft, leakages, breakages, blockages, & outages
- Retrofitting obsolete STPs with tech solutions in collaboration with Govt & EPCs



E Waste & Solar Panel Recycling

14.30 hrs - 15.20 hrs: Panel Discussion

Discussion Points:

- Recycling old electronic items for resource recovery & mitigation of landfill waste
- Best practices for recycling & disposal of old solar panels to manage waste & recover useful components
- Adopting circular economy principles in resource recovery
- How new-age technology helps process old e-waste & solar panels efficiently & in environmentally friendly manner
- How to adopt sustainable methods in handling electronic & solar waste to minimize environmental impact

* Timings are unconfirmed & are subject to change



Circular Economy & ZLD Solutions for Industrial Water Management

15.30 hrs - 16.20 hrs: Panel Discussion

Discussion Points::

- Adopting circular economy principles in recycling & reuse of water
- ZLD tech illustrations in treatment & reuse of wastewater
- Understanding ways to reduce amount of water wasted in industrial processes.
- Recovery & reuse of water and resources in factories & plants
- Role of ecofriendly technologies in helping industries manage water sustainably and within environmental benchmarks



Used Oil Recycling – An opportunity for Circularity & Material Efficiency

15.30 hrs - 16.20 hrs: Panel Discussion

Discussion Points:

- EPR on waste oil management: How timely policy action brings transparency in collection & utilization of waste oil
- Prioritizing implementation of EPR: Importance of monitoring, oversight & defaulter accountability to avoid environmental contamination
- Government role in organizing India's waste oil disposal system: Demarcating producer, importer, collection agent, recycler, bulk generator, CPCB, SPCB, & municipality responsibility to formalize tracing of oil generated
- Awareness building: Best practices for waste oil management
- Need for establishment of standards for re-refined oil in collaboration with refineries, industrial partners, & producers
- Role of preventative measures: Improvement of circularity of waste oil within the system & husbandry of fresh oil consumption



Innovative technologies & business models for resource recovery in Sludge Management

16.30 hrs - 17.30 hrs: Panel Discussion

Discussion Points:

- Prioritising India's future industrial landscape: harmonizing growth with sustainable development principles
- Innovations for effective sludge management: transforming sludge into useful by-products
- Understanding need for industry: specific solutions
- Capacity building & skilling: Role of skills inculcation, training programs, & educational initiatives to realise circularity in sludge management
- Need for public awareness campaigns in inculcating responsible sludge management measures
- International collaborations & Knowledge Sharing: Exposure to global Best Practices on safe disposal modes & resource recovery



Hazardous Waste Management

16.30 hrs - 17.30 hrs: Panel Discussion

Discussion Points:

- Safe Handling Practices: Working with explosive, flammable, & corrosive materials to prevent accidents & injuries
- Effective Treatment Methods: Techniques for treating hazardous waste to reduce danger before disposal
- Role of advanced tech in safely transporting hazardous waste & anticipating spillages, leakages, breakages, & accidents
- Disposal Solutions: Best practices for safe & environment-friendly modes of disposal of hazardous materials
- Emergency Response Plans: Preparing for & responding to hazardous waste accidents or spillages

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