



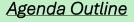


India's Leading Conference on Water, Sewage, Solid Waste and Recycling

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Solid Waste Management Track

Water & Wastewater Management Track

DAY 1









THEME: Rebooting legacy systems in waste movement

THEME: Advancing resilient urban & rural water infrastructure through Integration, Innovation, & Inclusion

Inaugural Session

Harnessing the power of data to revolutionize waste management

Discussion points:

- Adopting smart waste management practices Role of data in lending insights into waste streams during operations
- Leveraging digital platforms to inculcate circularity practices in corporate & industrial settings
- Coupling civic responsibility at household & corporate level with data innovation
- How predictive capabilities from data capture & database management build waste management competencies at sources of origin
- Case Study illustrations & Best Practices in local governance initiatives & people-intensive installations
- Role of source segregation technologies Building efficiencies in sorting & segregation at public places, individual households & corporate establishments
- Legal & financial aspects of data capture & linkages with policy and enforcement imperatives

Impacts and opportunities of AMRUT 2.0 and JJM – Urban & Rural universal water & sanitation coverage missions in India

- Key achievements and challenges in implementation of AMRUT 2.0 and JJM
- Role of smart sensors & centralized dashboards for real-time monitoring
- Participation of private sector players & startups (especially in JJM)
- How do specific (AMRUT & JJM) policies impact project implementation?
- Execution & service quality disparities amongst states and the way forward
- Financial sustainability challenges & innovative strategies to address funding gaps
- Evolution and role of State Water Regulators on investment & drive for innovation in the water sector









•	Aligning source segregation with waste management policy	Water re
	initiatives to undertake efficient data collection, screening, evaluation, & impact	Financia

 Water regulator's role in influencing Water Tariffs, Equity & Financial Sustainability

Solving for legacy problems in waste movement from source to landfills

Discussion points:

- Modernizing outdated processes in waste trails from points-oforigin to treatment, recovery & disposal
- Role of technology in waste collection, segregation, transport, treatment, & disposal processes
- Spurring innovation in institutional & governance aspects to drive prescriptive decision-making on waste movement
- Facilitating real-time monitoring of & data-driven insights into waste-related operations – Role of Integrated Command & Control Centers in a rapidly urbanizing India
- Monitoring and evaluation of waste collection & tracking and citizen grievance redressal systems
- Role of Operation & Maintenance contracts in waste management – Examining integrated solid waste management contracts – vs – separate contracts
- Role of fleet & manpower operators
- Decentralized waste collection & transportation How localizing waste management solutions & community engagement build more resilient waste management infrastructures

Real-time monitoring and management of Surface water quality (especially rivers) that flow through urban centers

- Policy and frameworks for river and river basin management
- Deployment of smart sensors to holistically monitor river water quality
- Smart Data integration and decision support for respective stakeholders
- Mapping pollution sources and developing accountability mechanisms (eg. Polluter pays)
- Policy and regulatory intervention to develop strategies for cohesive operating procedures to manage river water quality









Building efficiencies in waste storage & processing facilities	Circular sludge management framework and its importance in the
	context of wastewater treatment

Discussion Points:

- Understanding design requirements of MRFs & MCFs Efficient capacity design planning of centralized storage & processing facilities
- ULB Best Practices Glimpsing robust storage & processing facility operations
- Discussing role of technologies for storage & processing of solid waste
- Addressing legal challenges faced in construction of storage & processing facilities
- Combatting the profitability problem with MRFs & MCFs How ULBs, NGOs, Self-Help Groups can work cohesively to address capex, opex, manpower, & technology problems
- Building robust decentralized storage & processing facilities –
 Role of social entrepreneurship & startups in effective waste
 management in peri-urban areas, urban fringes, and rural
 settings

Discussion Points:

- The under-recognized sludge challenge in India
- Sludge as a resource to produce usable byproducts like biocompost, energy (biogas), construction materials, or biochar
- Absence of uniform national guidelines on sludge classification, treatment, & reuse and the need for nationallevel mandates for sludge management
- Innovative sludge solutions and business models to incentivize private sector

Optimizing waste treatment & disposal management processes

Smart water & wastewater infrastructure to drive productivity and efficiency in water services

Discussion points:

- Intelligent landfill design, operations & management
- Site selection & characterization









- Building efficiencies in landfill capacity management –
 Discussion on waste placement & compaction
- Managing ambient air, groundwater, & air contamination Liner systems, leachate, gas & stormwater management, and cover systems
- Monitoring & maintenance Timely screening of leachate, gas & groundwater to address environmental contamination and upkeep of landfill structures
- Role & types of Waste-to-Energy technologies in capacity management
- Regulatory framework on permissible methods for waste treatment & disposal – Understanding screening, evaluation, & punitive action provisions to combat violations
- Waste treatment & disposal contracts Building responsible & efficient waste management guidelines for industry & local government
- Customizing technology deployment for waste treatment & disposal in diverse Indian settings

- Role of AMI (Advanced Metering Infrastructure), ultrasonic/IoT water meters in demand forecasting and leakage reduction.
- Data-Driven NRW (Non-Revenue Water) Reduction Strategies
- Use of digital twins for simulating water distribution and wastewater flows to optimize operations, maintenance, & asset management
- Leveraging smart city infrastructure to integrate water and wastewater data with traffic, health, and emergency systems

Managing legacy waste & achieving land rejuvenation – Role of enablers

Discussion points:

- Converting waste to wealth Biomining techniques to convert legacy waste into recyclables & usable materials
- Examining types of technologies to remediate dumpsites

Advancing Circular Water Reuse Across Utilities, Industries, Commercial, and Institutional Sectors – Enabled by Innovative Technologies, Collaborative Business Models, and Adaptive Financial Instruments

Discussion points:

• Modular, energy-efficient systems are enabling decentralized reuse solutions even for smaller municipalities or industrial zones, or in commercial & institutional premises.









- Environmental impact assessment of illegal dumpsites
- Role of NGT From promoting biomining & bioremediation of legacy waste to directing authorities to develop guidelines & implement projects for rejuvenation of land
- Illegal dumpsite remediation Learnings from international & domestic Case Studies
- ULB Best Practices Biomining & remediation success stories
- Understanding conventional financing models Govt funds, grants & subsidies, loans & green bonds
- Uncovering unconventional financing models PPP models, User 'Waste Generator' Fees, WtW & WtE monetization, and innovative 'corporate accountability-based' approaches

- Role of multilateral banks, climate funds, or ESG-focused investors in scaling up reuse in water-stressed but capitalpoor regions
- How to incentivize circularity through Policy and Tariff Mechanisms?
- Merging platforms that allow verification of reuse performance, helping industrial, commercial, and institutional end users gain sustainability certifications or carbon-water credits

DAY 2

THEME: Role of enablers & innovation in inculcating temper for waste management in Indian industry

From obligation to ownership – Cultivating corporate responsibility for sustainable waste practices

Discussion points:

- Defining responsible waste & water management
- Discussing drivers to help transition corporates from reactive to proactive managers of water resources & waste generated
- Value chain collaboration to accelerate sustainable waste practices

THEME: Securing industrial water sustainability through circular innovation, competitiveness, & compliance

Circular economy for water-secure agriculture

Problem Statement: How rise in water demand in urban areas including for high value irrigated agriculture in sub-urban & periurban areas are accentuating stress on India's freshwater resources

Discussion points:

How rise in water demand for market-driven irrigated agriculture stresses finite water resources









- Evolution of ESG rating frameworks to assess corporate water & waste performance
- Bottlenecks faced by SMEs in adopting sustainable waste practices Role of policy, partnerships & technology
- Examining leadership role of large enterprises in integrating sustainable water & waste practices in existing ESG & business excellence frameworks
- Material recovery from corporate waste streams Role of innovation
- Harnessing the power of technology & external sustainabilitydriven service providers in meeting corporate sustainability goals

- Feasibility of integrating reuse of treated used water for irrigation in peri-urban & suburban areas and its potential benefits
- Addressing concerns for reusing treated used water for irrigation
- Best practices in treated used water reuse in agriculture

Trouble-Shooting Statement: Reuse of treated used water in irrigated agriculture – A timely green tonic for achieving water security & building climate adaptation

Discussion points:

- Ensuring high fidelity in quality of secondary treated water in agriculture
- Monitoring for presence of heavy metals & emerging contaminants
- Role of ULBs & technology
- Models for financing reuse projects & ULB revenue generation streams
- Role of local urban government in developing & implementing targeted water reuse plans

Legislative & regulatory reform for effective biomedical waste management in India

Discussion points:

- Redefining biomedical waste to ensure foolproof segregation— Driving zero tolerance at healthcare facilities, treatment & disposal centers
- Debating inclusion of auxiliary waste Waste generation at dermatological, and health & wellness centers, and shared hospital linen & furniture

Securing water for sustainable mining – Perspectives on critical minerals, circularity & climate resilience

- Policy & regulatory landscape governing water use in mining
- Industry Best Practices in reducing water footprint & enhancing circularity in mining
- Community level water stewardship Mining's role in shared water resources and roles & rights of indigenous people









- Defining & implementing pre-treatment practices of biomedical waste – Role of innovation & legislative reform
- Impact assessment on biomedical waste management Infection control protocols at HCFs
- Monitoring mechanisms to prevent post-treatment malpractice
 Surveillance of CBWTDFs to ensure error-free waste disposal,
 and to assess ambient infection & contamination risk
- Challenges faced in biomedical waste management in periurban, urban fringes & rural settings

- Financing smart water mining Risks, impacts & opportunities for circularity
- Role of digital tools & AI in water risk management in mining

Formalizing the circular economy in apparel industry – Framing PIBO & consumer responsibility

Discussion points:

- EPR vs voluntary 'incentive' models for tackling PIBO accountability
- Role of structured incentivization in the post-consumer process
 Understanding & shaping consumer behaviour
- Addressing apparel waste with rewards-based value-chain mechanisms
- How rag picker communities, NGOs, end-users & PIBOs can synergize efforts to help manage landfill deposits
- Combating the fast fashion menace in the social media age Tackling fast-moving next-gen buying trends to better manage the waste menace
- How evolved brands can shape consumer buying behaviour –
 From repair services to incentivisation of recycling & upcycling
 garments to structuring forward-looking sustainability-based
 reward & loyalty programs

Understanding challenges of & solutions to water treatment in textile sector

- Technology adoption choices for SMEs to balance sustainability goals
- SME challenges Managing carbon, energy, & infrastructure footprints onsite
- Financing ETP / WTP infrastructure installation in manufacturer premises – Feasibility of adoption of treatment technologies by SMEs
- Policy measures for greater ease of access to & incentivization for adoption of commercially viable technologies by SMEs
- Policy & financing support for adoption of sustainable, climate-conscious, future-ready, water treatment technologies
- Cluster-level, case studies Examining fee-based, sharing, models in capital & space-starved SME clusters









•	Consumer awareness & education programs – Framing	
	progressive buyer behaviour by emphasizing recycling,	
	upcycling, thrift shopping, & exposure to healthy material	
	options	

 Role of technology at source – Improving or substituting manual slow-moving segregation & sorting processes • Aligning SME operations to international standards on water reuse, sludge generation, & management

How global consensus is driving India's plastic waste management agenda

Discussion points:

- Global Plastics Treaty & Intergovernmental Negotiating Committee (INC)-5.2 (August 2025) in Geneva – Reshaping the regulatory landscape for businesses worldwide
- INC-5.2 Assessing business implications for corporate India
- Not just compliance but leading business transition Proactively managing supply chain disruption, technology innovation & infrastructure creation
- How new compliance standards will drive transparency & traceability across value chains to minimize future regulatory risk
- Opportunity for Indian businesses Future proofing business models in era of accountability & sustainability
- Integrating circular business models to offset forecasted higher sustainability costs
- Understanding policy mandates prescribing PIBO responsibility for use & reuse of plastic waste

Transformative solutions for water pollution abatement in India's pharmaceutical sector

- Role of regulation in minimizing pharma water pollution
- Water management in pharma manufacturing Challenges
 & solutions
- Successful case study illustrations Managing water use efficiency & reducing effluent toxicity
- Environmental impact assessment & abatement of pharma pollutants
- Global Best Practices for pharma wastewater treatment & compliance
- Cost-Benefit analysis of pharma wastewater treatment









Impact of INC-5.2 on EPR legislation & alternatives to single-use plastics	
	 The HoReCa industry's outsized wastewater problem Discussion Points: Understanding food service industry's responsibility in managing disposal of discharged water Combatting indiscriminate dumping of untreated sewage Need for legislative guidelines to spell out adherence protocols for local HoReCa businesses Regulatory oversight in mitigation of groundwater & river contamination Role of hospitality groups as responsible generators of food & non-food waste & consumers of water QSR, fine & casual dining chains – Transitioning the Indian food service industry into a conscious consumer of water & user of wastewater Encouraging waste mitigation practices in 'Night life' districts of urban Indian pockets



