

IGCW 2017: GC&E conference for State Pollution Control Boards

The 5th Industrial Green Chemistry World, IGCW-2017, will include a one-day conference on Green Chemistry & Engineering (GC&E) exclusively for State Pollution Control Board (SPCB) officials on Oct. 5, 2017 at the Ramada Powai, Hotel & Convention Centre, Mumbai.

Globally, the chemical communities and regulatory bodies are increasingly recognizing that GC&E-based practices reduce pollution at source by minimizing and/or eliminating the hazards of chemical feedstocks, reagents, solvents, and products.

GC&E is the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances. GC&E is applicable across the life cycle of a chemical product, including its design, manufacture, use, and ultimate disposal.

The overall objective in integrated waste management is to avoid disposal and, therefore, to proceed up the hierarchy (ref. Fig.1) in order,



ultimately, to eliminate as much waste as possible and consequently minimise the environmental impact. At a practical level it may be necessary to apply a combination of two or more options from the waste hierarchy. For chemical processes the principles of GC&E can be applied to all options of the waste hierarchy and this approach is an integral part of the waste management system. The Industrial Green Chemistry World (IGCW) Convention series

is an outcome of this realization and a platform that brings together various stakeholders to collectively engage in the implementation of GC&E practices in the Indian chemical industry.

The IGCW Ecosystem

The IGCW Ecosystem is an innovative model, which, by design, brings together diverse stakeholders of the chemical industry. Apart from senior industry participation from Management, R&D, Plants & Operations; the IGCW ecosystem brings forth participation of GC&E experts and solution providers from industry, academia and research institutes. There is active involvement of Government bodies, regulatory agencies, industrial associations, NGOs, media and all such bodies that directly or indirectly drive environmental sustainability of chemical industry.

The IGCW Convention & Ecosystem earlier integrated the GC&E Conference for SPCBs during the 3rd IGCW-2013 and 4th IGCW-2015. These conferences were well attended by the senior environment engineers of State PCBs, including Maharashtra, Gujarat, Andhra Pradesh, Telangana, Punjab, Goa, Arunachal Pradesh, Tamil Nadu & Karnataka.

The key objective of the SPCB Conference during IGCW-2017 is to emphasize on and catalyse the role of SPCBs in accelerating the implementation of GC&E in existing chemical manufacturing practices.

Conference objectives

The objectives of the SPCB Conference are:

➤ To introduce to the Member Secre-

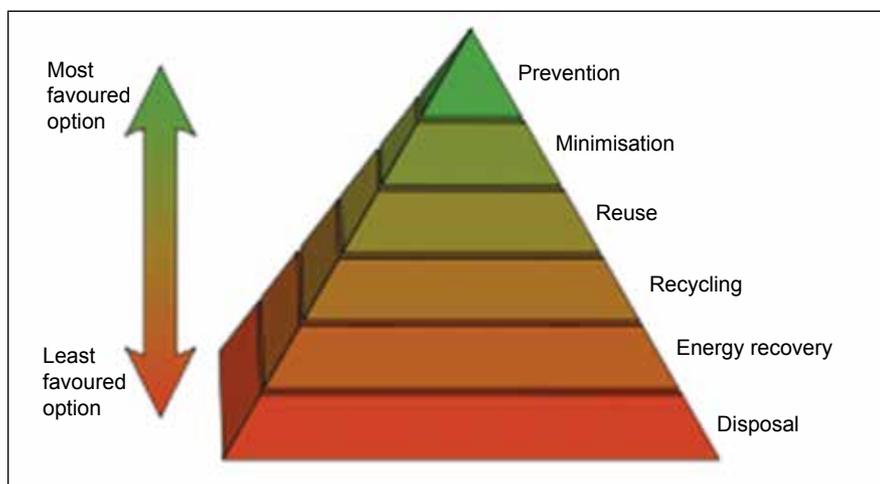


Fig. 1: Waste management hierarchy

taries the emerging field of GC&E for preventing/minimizing hazardous pollution at the source of its generation.

- To familiarize the SPCB officials with various regulatory initiatives & approaches on GC&E integration in other parts of the world like USA, UK and Europe.
- To provide a conducive platform for sharing thoughts, ideas and experiences and thereby, learn from each other's initiatives.
- To provide an interactive connection to GC&E-based environmental solution providers and experts.

Expected outcome

The SPCB Conference will primarily serve towards expanding the technical understanding of 'pollution prevention at source' amongst the Member Secretaries and senior most technical officials of SPCBs.

The key outcomes that are likely to emerge include:

- The Conference content will introduce to the Member Secretaries the emerging field of GC&E for preventing/minimizing hazardous pollution at the source of its generation.
- The platform will familiarize the SPCB officials with globally implemented regulatory models and approaches for GC&E integration.
- The PCB Conference will serve as an opportunity for SPCBs to share best practices and success stories, exchange initiative, ideas and collectively evaluate feasible and implementable alternatives for impacting their immediate environmental challenges.
- The IGCW-EXPO will introduce the Member Secretaries to around 40 potential solution and technology providers, offering tangible solu-

tions that are economically competent and competitively innovative in resolving some of the most pressing environmental challenges currently faced by the chemical industry.

- The participating PCB officials will also utilize the IGCW Ecosystem to interact with the global experts, industry thought leaders and other Government bodies to explore collaborative interventions of GC&E implementation.

Overall, the SPCB Conference on Green Chemistry in conjunction with the IGCW-2017 Ecosystem will provide the bridge between the SPCBs and diverse stakeholders from academia, research, technology provider companies and the chemical manufacturers from the key industrial zones to collectively come together and address the environmental challenges with a win-win approach.