

Title of Abstract: Zero Waste strategies – Concept, Action & Realization

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Abstract:

World is realizing risk & concerns related to improper management of wastes as earlier focus was merely promoting disposal as option and is not the sustainable solution.
Based on emerging need, Environmental regulations are amended & now emphasizing to explore the possibilities for Reduce, Reuse, Recycle, Reprocess and Recover options before selecting landfill or Incineration as final option for managing various types of Hazardous and Non-hazardous wastes. This can led to multiple benefits which mainly include avoiding / minimizing loss of land and resources. These 5R principles of waste management have become essential for Sustainable management of Wastes.

Port & Logistics business includes handling, storage and transport of various goods & cargos. Activities at ports likely to generate broadly four types of waste i.e. Municipal Solid Waste, Industrial waste, Bio-medical Waste and E-waste, where Solid waste and Industrial waste includes different types and categories.

Under the inspiration from Clean India Mission, APSEZ has developed a vision of becoming – a zero waste company by adopting 5R principles of waste management. This can be achieved through four essential steps which include (i) Waste inventory, (ii) Selection of technology, (iii) Networking & permissions and (iv) Implementation & monitoring.

Wastewaters are reuse for Horticulture purpose. MSW are segregated at source & sent for recycling. Biodegradable waste is converted to manure. E-waste, Used oil / Spent oil and Downgrade chemicals from ships are sold to registered recyclers. Separated oil from Oily water of vessels (slope) is sold to registered recyclers. Oily cotton waste, pig waste & non-recyclable non-hazardous waste are sent to cement industries for co-processing through cement kiln.
Value addition practices help in reducing pollution & emission, saving of land, resources & money and help generate revenue in certain cases. Business sustainability depends on sustainable management of wastes.

Biography:

Completed Environmental Engineering in 1997 and Masters in Environment Management (Gold Medalist) in 2008. More than 22 years of experience in the field of Environment Management. Experience on Climate Change mitigation & adaptation, Value addition to wastes, Cleaner Production, Waste to Energy, Clean Development Mechanism & Multilateral Environmental Agreements. Around 20 publications for national and international seminars.

Working with Adani Group since April 2011 and heading Environment department since Nov 2015 for Adani Ports & Logistics across the India & abroad. Some of the leading projects include Zero Waste Initiatives, Carbon footprint assessment and Sustainability Reporting as per GRI standards. Performed as a certified Sustainability Assessor. Contributed significantly in the preparation of numbers of Environment Impact Assessment reports for various port projects, Modelling studies for various environment attributes, Cumulative Impact Assessment studies, Public consultation processes and development of Corporate Environment & Social Management Systems inline to IFC performance standards.

Presenting author details

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