

Dr. S. & S.S. Ghandhy College of

Engineering & Technology, Surat

Report on

EXPERT TALK "ZERO WASTE FOR SUSTAINABLE DEVELOPMENT"

07/03/2024

Venue: Seminar Hall, Administrative Building

Dr. S.& S.S.Ghandhy College of Engineering & Technology, Surat

Organised Under

Mission Life Program and IGBC Student Chapter





Expert Talk on "Zero Waste for Sustainable Development" was organised by Dr. S.& S.Ghandhy College of Engineering & Technology, Surat under Mission Life Program and IGBC Students Chapter on 07/03/2024 at Seminar Hall, Administrative Building of the Institute. The Resource person and Expert for the Talk was Shri Nishank Shah – Founder and CEO of Durogreen Waste Management Pvt. Ltd.



Total 115 students from the various branch registered to attend the session.

The expert talk on "Zero Waste for Sustainable Development" provided a comprehensive insight into the principles, strategies, and benefits of adopting a zero-waste approach. The discussion emphasized the importance of addressing waste management as a critical component of sustainable development initiatives.

Key Points Discussed:

- Definition and Concept of Zero Waste
 - The presentation began by defining zero waste as a philosophy and goal aimed at minimizing waste generation and maximizing resource efficiency.
 - Emphasis was placed on the holistic approach of zero waste, which involves redesigning systems and processes to eliminate waste at its source.
- Principles of Zero Waste:
 - The talk highlighted the key principles of zero waste, including waste prevention, product redesign, material recovery, and extended producer responsibility.
 - The importance of adopting a circular economy model, where materials are continuously recycled and reused, was underscored.

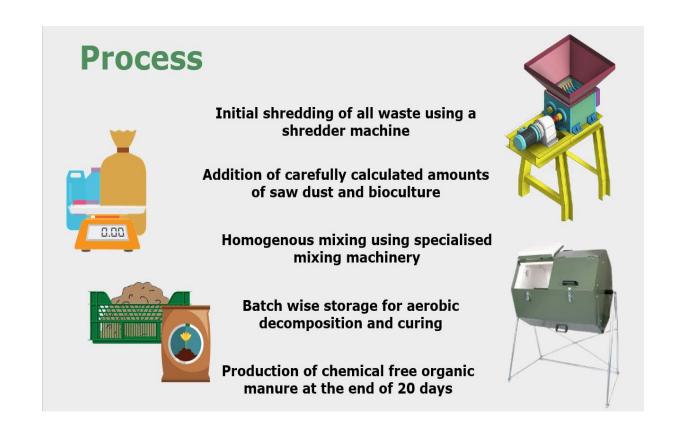
Types of solid waste



- Strategies for Achieving Zero Waste:
 - Various strategies and tactics for implementing zero waste practices were discussed, including source reduction, composting, recycling, and promoting reusable products.
 - Mobile waste management Concept was discussed at length for managing waste.







 Case studies and examples of successful zero waste initiatives from different industries and communities were shared to illustrate practical implementation strategies.

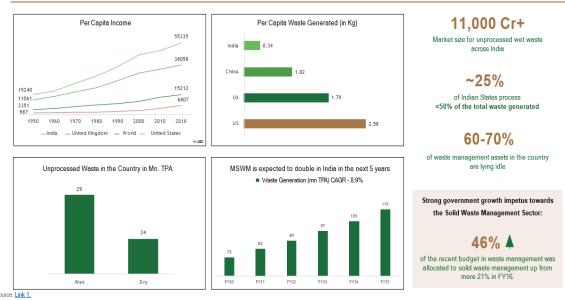


- Environmental and Economic Benefits:
 - The expert emphasized the significant environmental benefits of zero waste, including reduced greenhouse gas emissions, conservation of natural resources, and prevention of pollution.
 - Economic advantages such as cost savings through waste reduction, job creation in recycling industries, and enhanced community resilience were also highlighted.



- Challenges and Solutions:
 - The talk addressed common challenges faced in transitioning to a zero-waste paradigm, such as lack of infrastructure, cultural barriers, and resistance from industry stakeholders.

Opportunities in Waste Management



Frost and Sullivan, internal research

Services that can be offered



Machine Sales

Machine Operation and Maintenance

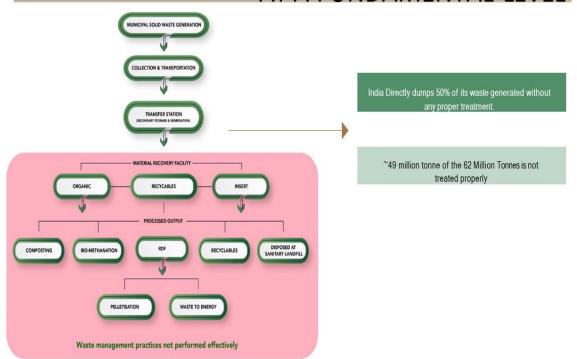




Mobile Waste Management

 Solutions and best practices for overcoming these challenges were proposed, including policy interventions, public awareness campaigns, and collaboration between governments, businesses, and civil society.

INDIA FACES WASTE MANAGEMENT CHALLENGES AT A FUNDAMENTAL LEVEL



- Role of Individuals and Communities:
 - The importance of individual and community engagement in achieving zero waste goals was emphasized.
 - Practical tips and strategies for consumers to reduce waste in their daily lives, such as mindful consumption, waste segregation, and supporting sustainable products, were provided.

Municipal Solid Waste Rules, 2016

(a) segregate and store the waste generated by them in three separate streams namely bio-degradable, non biodegradable and domestic hazardous wastes in suitable bins and handover segregated wastes to authorised waste pickers or waste collectors as per the direction or notification by the local authorities from time to time;

(b) wrap securely the used sanitary waste like diapers, sanitary pads etc., in the pouches provided by the manufacturers or brand owners of these products or in a suitable wrapping material as instructed by the local authorities and shall place the same in the bin meant for dry waste or non-bio-degradable waste;

(c) store separately construction and demolition waste, as and when generated, in his own premises and shall dispose off as per the Construction and Demolition Waste Management Rules, 2016; and

(d) store horticulture waste and garden waste generated from his premises separately in his own premises and dispose of as per the directions of the local body from time to time.

(2) No waste generator shall throw, burn or burry the solid waste generated by him, on streets, open public spaces outside his premises or in the drain or water bodies.

(3) All waste generators shall pay such user fee for solid waste management, as specified in the bye-laws of the local bodies.

BULK WASTE GENERATORS

As per Solid Waste Management Rules 2016, "Bulk Waste Generator" means and includes buildings occupied by the Central Government Departments or Undertakings, State Government Departments or Undertakings, Local Bodies, Public Sector Undertakings or Private Companies, Hospitals, Nursing Homes, Schools, Colleges, Universities, other Educational Institutions, Hostels, Hotels, Commercial Establishments, Markets, Places of Worship, Stadia and Sports Complexes etc. having an average waste generation rate exceeding 50kg or 100kg per day (of all waste streams put together).

- BULK SOLID WASTE GENERATORS Guidelines by Ministry of Housing & Urban Affairs, Government of India



commonses years to use works concerns or agency as directed by the local body.
(8) All hotels and ressaurates shall, within one year from the date of natification of these rules and in partnership with the local body ensure segregation of wake at source as proceeded in these rules, facilitate cellection of segregated waste in separate streams, handwer recyclulor material to either the antiensed wase pickers or the antherized recycles. The bodygraddwases that he processed, readed and disposed of throng to promosing or the sectionation within the premises as far as possible. The residual waste shall be given to the waste cellectors or agency as discreted by the local body.

How Can you Contribute ?

- Start Managing Solid waste from your home
- Practice waste management by executing a project in your college
- · Do internships at various companies in waste management
- Try to become a Green Entrepreneur in Future Changing City's Landscape.



Glimpse of the Event :









The expert talk concluded by reiterating the urgent need for concerted action to embrace zero waste principles for sustainable development. Participants were encouraged to become advocates for zero waste practices in their respective spheres of influence, recognizing the transformative potential of collective action in creating a more sustainable and resilient future.

Overall, the expert talk provided valuable insights and inspiration for advancing the agenda of zero waste as a cornerstone of sustainable development efforts.