

National Policy Workshop Webinar Series

On

Countermeasures for Riverine and Marine Plastic Litter in India

12 -22 May 2020

Session 6: Scenarios to counter plastics litter in river and marine environment by overcoming barriers and identifying enabling measures and shaping roadmap and strategy ahead



Innovation in Plastics

Product Design / Substitutes / Alternatives/
Applications – towards conservation



Innovation can be of Multiple Types (5 WAYS)

- ❖ Polymer Innovation – Towards Recyclability & Biodegradability
- ❖ Packaging Harmonisation – Towards Single Streaming of flexibles
- ❖ Delivery & Consumption Innovation – Towards lesser use of Single Use
- ❖ EPR Innovation – bringing polluters & conservers together– Plastic Xchange
- ❖ Innovation to Commercialisation – Plastic Index for ALL

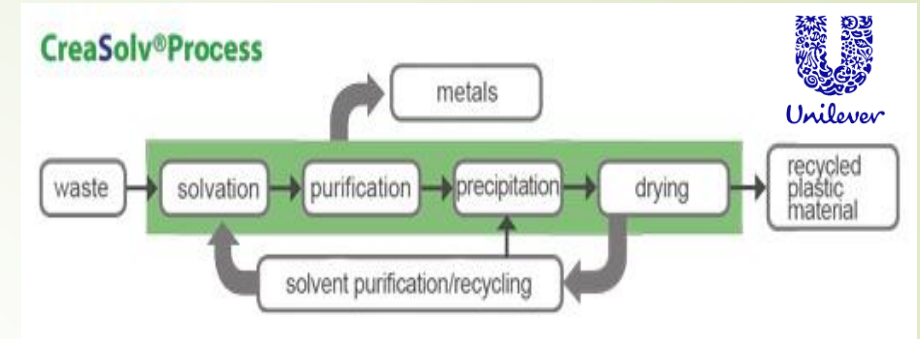
When to Change



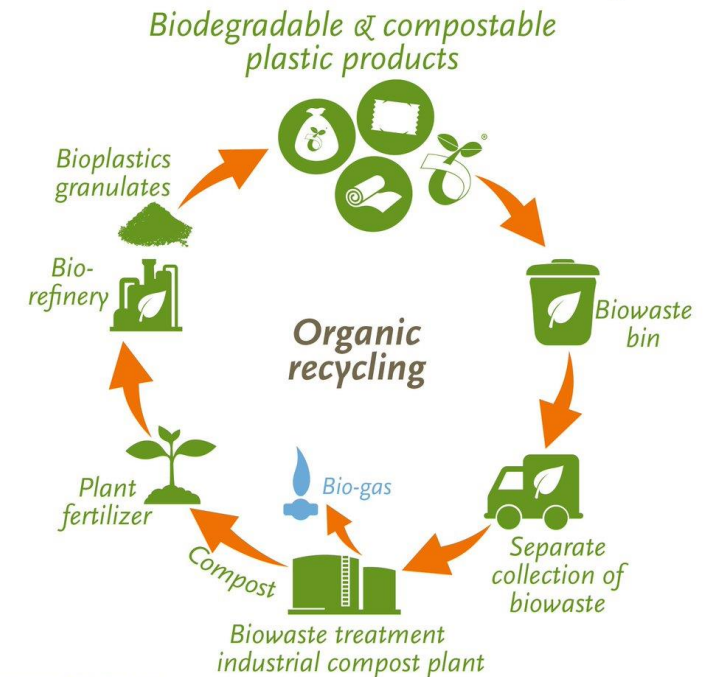


(1) Polymer Innovation

- ❖ Ability to delayer the MLP – CreaSolv by Unilever
- ❖ Ability to Replace Aluminium as O2 & Moisture Barrier - EVOH by **Dow Retain** – Compatibilizers
- ❖ Nylon & Polyester Busters – Additives from Resin Cos
- ❖ Back to PolyOlefins from QuantaFuel
- ❖ Bio Compostable Plastics – by many players



End-of-life options for **BIOPLASTICS** – Closing the loop –





(2) Packaging Harmonisation

- ❖ Harmonization is Happening in Europe why not India
 - ❖ Monomerization – Single Family Plastic for Multi Layer
 - ❖ Maximum Inerts upto 8 %
 - ❖ Moving Away from Polyester & Nylon (Non Recyclables)
 - ❖ Moving Away from Aluminium (EVOH)
- ❖ Harmonisation creates single waste stream
- ❖ Gutka Industry moved away from Plastic
- ❖ Is FMCG waiting for a BAN for plastics use in Sachets





(3) Delivery Innovation

- ❖ Milk Man delivery in our times
- ❖ Washable & Reusable Containers
- ❖ Common Logistics for Multi brand
- ❖ Excellent COVID – Home Consumption
- ❖ Food Delivery (BC) 15BN plastics PA - Can it be in Reusable Containers
- ❖ Returnable Plastics (Like returnable Glass) for Beverages





(3) Consumption Innovation

- ❖ NO Secondary Packaging
- ❖ Loose Sales (like Grains in Big Bazaar)
- ❖ Bring your Own Container





(4) Plastic Xchange – Bring Polluters & Preventors together

❖ Who puts out Plastics into Environment

- ❖ PIMBOs
- ❖ Bulk Waste Generators
- ❖ Offices / Malls / Apartments
- ❖ Stores / Delivery / Couriers / Ecom
- ❖ Citizens



❖ Who takes away plastics from Environment

- ❖ Municipalities
- ❖ Cement Companies
- ❖ Waste Management Companies
- ❖ Recyclers
- ❖ Waste Pickers

- ❖ MOU between Stock Exchange and ProIndia
- ❖ Plastic Credit Units (PCU) would be generated by Conservers – like recyclers ,municipalities , WM Companies
- ❖ PCU would be Required by Polluters
- ❖ PCU would be defined , certified like commodity
- ❖ PCU would be traded at Xchange





(5) Plastic Index - Create Common Path – One Index of measurement

- ❖ Awaiting National EPR Framework
- ❖ What's the Target for Recovery & Recycling for PIMBOs
- ❖ Is EPR =
 1. Awareness
 2. Waste Picker Welfare
 3. Actual Recovery & Recycling against Plastic Put Out
 4. None of the Above
 5. All of the Above
- ❖ Can there be One Model for above and each Stakeholder simply replicates the same
 - ❖ Benefits of Scale & Scope
 - ❖ Can create Plastics Recycling as Industry

Constructs of the Plastic Index

The Index is proposed to comprise of the following broad dimensions for capturing data and information:





When to Change

- ❖ Incineration is NOT Recycling
- ❖ Incineration is Wasteful & Not Resource Efficient
- ❖ Current Practice is due to lack of Collection, Sorting & Recycling Infrastructure
- ❖ We do NOT Lack Ideas – We lack Commitment (pls read VGF) for Plastics Circularity
 - ❖ Plastics to Roads
 - ❖ Plastics to Tiles
 - ❖ Plastics to Fuel (Pyrolysis)
 - ❖ Plastics to Plastics
 - ❖ Bottle to Bottle

Ready to Change ?

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