

National Policy Workshop Webinar Series
On
Countermeasures for Riverine and Marine Plastic Litter in India
12-22 May 2020

Session 5: Impact of COVID-19 on plastic waste generation (used PPEs and wastes from HCFs) and upcoming challenges

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Covid 19 - Impact on Plastics recycling industry



पर्यावरण के लिए खतरा बताए गए प्लास्टिक ने Coronavirus से बचाई करोड़ों जानें

जरा सोचिए कि अगर हमारे पास प्लास्टिक से बनी कोई वस्तु मौजूद नहीं होती, तो क्या हम सभी कोविड-19 के घातक हमले से जिया बच पाते? आज तक कोरोना वायरस से जिया बचाने वाली कोई भी दवा उपलब्ध नहीं हो पाई है।

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HOME LATEST TRENDING MY READS

Coronavirus Mini Covid Tracker IWHPLife Market Dashboard

Workers preparing the PPE suits at a private manufacturing unit amid the ongoing nationwide lockdown, to curb the spread of coronavirus, in Vijayawada. (ANI)

Single-use plastic turns out to be an unlikely hero in corona battle

1 min read, Updated: 13 Apr 2020 01:57 AM IST

Kalyana Prasad

- Polypropylene, a non-woven material that can be used only once, is largely used in making PPE

Plastic ban in secretariat removed

The Uttarakhand government has stalled its previous order, which banned the use of plastic products such as plastic water bottles in meeting and workshops inside the secretariat due to the need of personal hygiene in the fight against COVID-19. A letter in this regard written by chief secretary Utpal Kumar Singh was circulated last week. In August last year, additional chief secretary Radha Raturi had passed directions, through a circular, to all senior officials that no plastic products should be used inside the secretariat. But now, the state government decided that the order will be put on hold for the time being.



Plastics are Useful



TIMES TRENDS

Why virus may bring plastic back in favour

People Worried About Germs May Be Tempted To Trade Their Reusable Mugs And Bags For Single-Use Plastics

IT took one week after the first US case of COVID-19 with no increase in cases then the Starbucks Corp. had customers from bringing reusable coffee mugs.

Anith Eck, a former regional administrator for the Environmental Protection Agency, was disappointed. Public health comes first, of course, but as the director of the grassroots Beyond Plastics project, Eck had her doubts that returning to disposable cups would make anyone safer. "Coronavirus is a non-infectious carrier. Will Starbucks now stop accepting us?" she asks.

There are serious issues related to it. "Consumers are used to reusable cups for coffee which could increase plastic packaging, thereby reducing the amount of reusable products used by them," Hriday.

An association has urged a shift against the 100 billion plastic industry manufacturers revealed an additional argument to their report that the products are actually a boon to avoid unnecessary steps to being petroleum based, non-biodegradable, and difficult to recycle. Most of these claims are based on a handful of studies, the most significant of which was done by NCC by Plastics Association in 2014. A crucial part of the life cycle of products like water bottles, which are used for drinking water and bottled water is the process.

While COVID-19 is not the only reason for concern, COVID-19 is affecting plastic demand overall. It did predict that any spike would likely be temporary, and that industry revenues would be hit as even up 10% increase of a sharp economic downturn. "In the long term, we do not expect this increased demand to have a significant impact on either plastic demand or cellular activity growth," the report said. Reported in a study to which all data are either reused or recycled. It is also published in the Journal of Hospital Infection and the virus linked to a 10% increase in plastic bottles in the plastic sector, at least temporarily.

The plastic industry is seeing the moment. In February, Plastics Industry Association, based in Washington, issued a statement: "As more consumers reuse and recycle around the globe, the plastics industry wants to be able to meet our customers' needs and protect our environment by being more and more sustainable products on the front of curbing the spread of coronavirus." However,

Network of plastics. Until the novel coronavirus started its spread across the globe, 3800 appeared to be a year when meaningful plastic-use restrictions would finally take hold. A growing list of consumer their reliance on plastic packaging. The virus played right in the industry's strong will, durability and hygiene. A new report released by BloombergNEP last week found that, in the short run at least, the benefits of plastic outweigh

The virus plays right in the industry's strong will, durability and hygiene



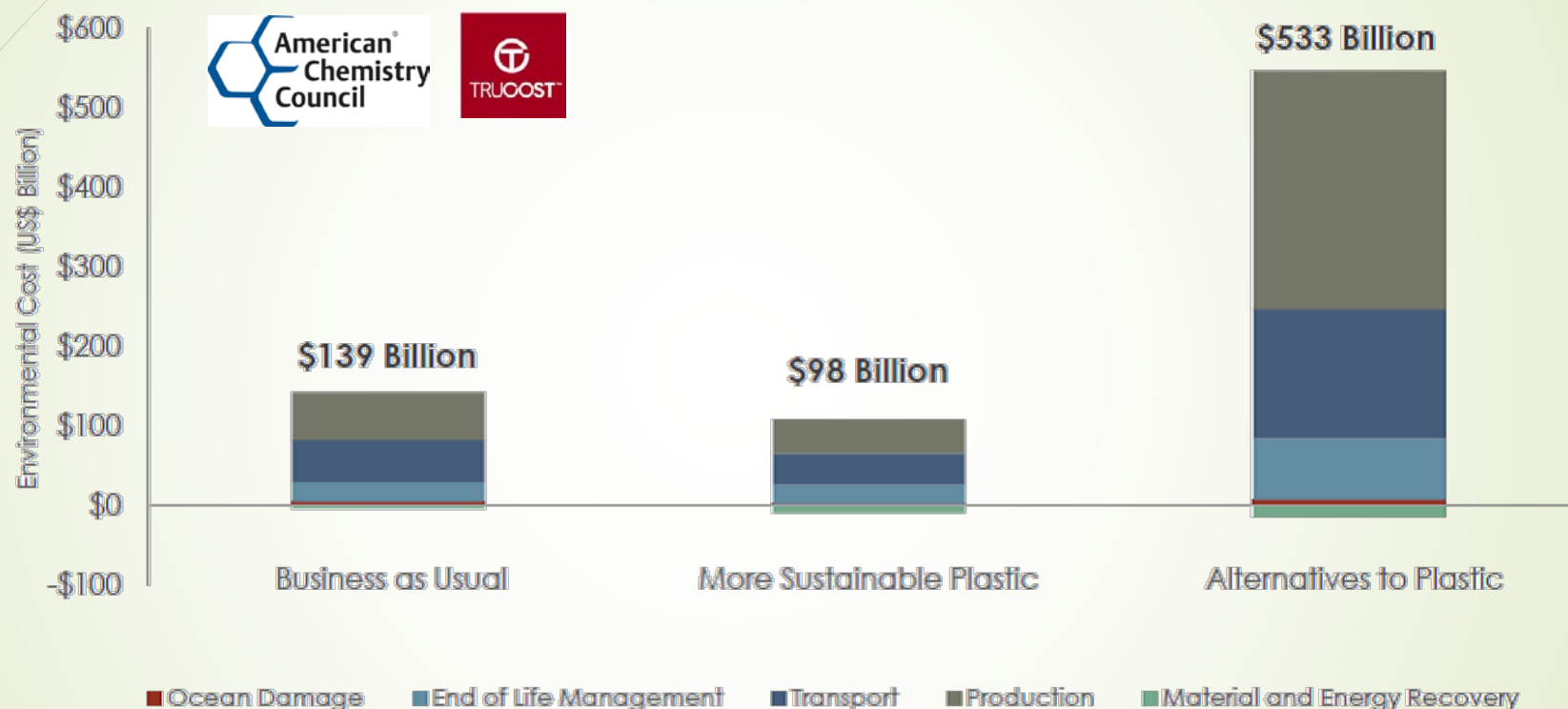
Plastics Protect

Plastics Improve Quality of Life : Plastics ensure food security, safety, hygiene with lower Carbon footprints

Properties	Advantages	Industries & Applications
<ol style="list-style-type: none"> 1. Light weight 2. Food Grade 3. Durable 4. Easy processing ability 5. Cost effective 6. Recyclable 7. Low carbon footprint 8. In end of life plastics can be used as source of energy 	<ol style="list-style-type: none"> 1. Provide Hygienic Packaging 2. Saves Product Contamination 3. Protects goods from Adulteration 4. Ensure Right Quantities 5. Provides Moisture Barriers 6. Increases shelf life for products 7. Packages & transport more product per unit weight of packaging 	<ol style="list-style-type: none"> 1. FMCG : Packaging 2. Agriculture : Pipes , Crop covers, greenhouse, mulch films etc 3. Infrastructure : Pipes, temporary cladding, doors , windows furniture 4. Automobile and Appliances – Components, protection 5. Industrial goods : Packaging 6. Medical : Syringes, , Gloves, Blood Bags, Apron etc.

Plastics Properties and Advantages makes it material of choice across Industries

Many studies indicate alternatives to plastics are at higher environmental costs – Plastics Waste Management is key solution



Source : Plastics and Sustainability: A Valuation of Environmental Benefits, Costs and Opportunities for Continuous Improvement, July 2016

Know Plastics – Manage Waste – Say No to Littering



Covid 19 : Relief Material – Plastics played important role

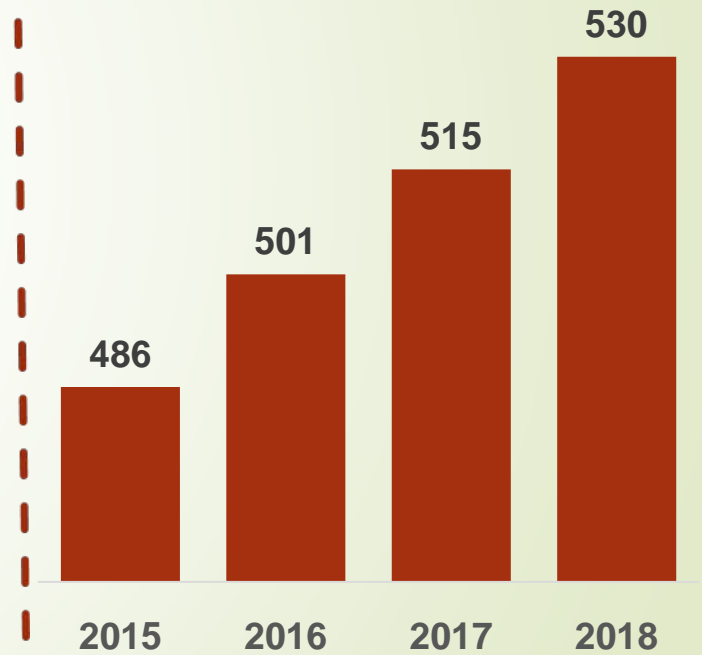


Plastics help in relief efforts

Plastics usage in health care has increased due to Covid 19 – Capacity augmentation required for managing waste



Biomedical Waste Management in India - MTD



Covid 19 → 20 KTM in PPEs, Masks & Gowns – Production has increased to 1000 MTD

Covid 19 - Waste management – Government is taking action

16:26 



CPCB directs states to track Covid-19 waste lifecycle, avoid spillage

Updated: May 08, 2020 00:15 IST
By Badri Chatterjee

The Central Pollution Control Board (CPCB) has asked states to track Covid-19 waste disposal, check spillage and ensure proper segregation of the waste.

The CPCB has created a digital tracking system and will share the application with the states. The app can monitor the lifecycle of waste from collection, segregation, transportation and incineration by geo-tagging each process and submitting details on a common platform. Details will be monitored by state pollution control boards, said CPCB, adding that the boards were informed on Wednesday.

“All waste generators, transporters, and those handling treatment facilities will be asked to register on the app,” said Prashant Gargava, member secretary, CPCB. “Generators will have to key in location details from where the waste is collected and declare the number of yellow coloured bags (marked specifically for Covid-19 waste) and amount quantity handed over. Transporters will confirm how much quantity they have lifted, and the same procedure will be followed at the treatment facility,” he added.

On April 21, the National Green Tribunal (NGT) had raised concerns about possible environmental hazards due to improper Covid-19 waste disposal and directed the CPCB to ‘incorporate best practices through continuous supervision and monitoring’. Apart from creating awareness at the state and district level, CPCB was directed to develop a software to compile data in an online format by using a digital tracking system to log Covid-19 waste.

“We have also observed that out of 2.7 lakh health care facilities (HCFs) identified, only 1.1 lakh HCFs are authorised under the Biomedical Waste Management Rules, 2016 so far. There appears to be a need for further revision of guidelines to cover all aspects, not merely institutions but also individual households... any unmindful deep burial without adequate safeguards can adversely affect the groundwater and pose danger to health and safety of people,” read the order passed by the NGT bench, headed by chairman Justice Adarsh Kumar Goel.

“Common treatment facilities are reporting that they are receiving mixed waste in yellow bags,

cities like Mumbai and Delhi,” said B Vinod Babu, nodal officer, waste management, CPCB. “The biggest problem is segregation as waste segregators are afraid of catching the virus. We have already told states to conduct programmes, webinars and awareness drives at all levels. The same has been communicated to expert committee members as per NGT directions,” he added.

HT had reported on April 8 that not more than 50% of total Covid-19 waste collected by workers was being segregated at source, as per Brihanmumbai Municipal Corporation (BMC) officials.

25th Mar 2020: CPCB Guidelines for Handling, Treatment and Disposal of Waste Generated during Treatment/ Diagnosis/ Quarantine of COVID-19 Patients – Rev 1

Digital tracking system for Covid 19 Waste



Post Consumer Plastics Recycling Value Chain : Un-organized system to capture value from waste



India: One of Best Plastics Recycling Rates in world

Plastics Recycling hubs are spread across India



S.No	State	Location	S.No	State	Location
1	Bihar	Patna	26	Maharashtra	Aurangabad
2	Chattisgarh	Raipur	27	Maharashtra	Solapur
3	Chattisgarh	Bilaspur	28	Maharashtra	Kolhapur
4	Daman	Daman	29	Odisha	Bhubaneswar
5	Delhi	Tikri Kalan	30	Odisha	Cuttack
6	Delhi	Kamruddin Nagar	31	Odisha	Balasore
7	Delhi	Vishwas Nagar	32	Punjab	Amritsar
8	Delhi	Shahdara	33	Punjab	Khanna
9	Gujarat	Dhoraji	34	Punjab	Dhuri
10	Gujarat	Ahmedabad	35	Punjab	Ludhiana
11	Gujarat	Bhavnagar	36	Punjab	Moga
12	Karnataka	Belgaum	37	Punjab	Jalandhar
13	Karnataka	Dharwad	38	Rajasthan	Jaipur
14	Karnataka	Shivamogga	39	Tamilnadu	Chennai
15	Karnataka	Mangaluru	40	Tamilnadu	Coimbatore
16	Karnataka	Davanagere	41	Tamilnadu	Madurai
17	Karnataka	Tumakuru	42	Tamilnadu	Tiruchirappalli
18	Karnataka	Bengaluru	43	Tamilnadu	Tirunelveli
19	Karnataka	Mysuru	44	Tamilnadu	Salem
20	Kerala	Kochi	45	Telangana	Hyderabad
21	Madhya Pradesh	Indore	46	Uttarpradesh	Kanpur
22	Madhya Pradesh	Bhopal	47	Uttarpradesh	Meerut
23	Maharashtra	Dharavi	48	Uttarpradesh	Lucknow
24	Maharashtra	Malegaon	49	West Bengal	Kolkata
25	Maharashtra	Jalgaon			

Hub near every Major City

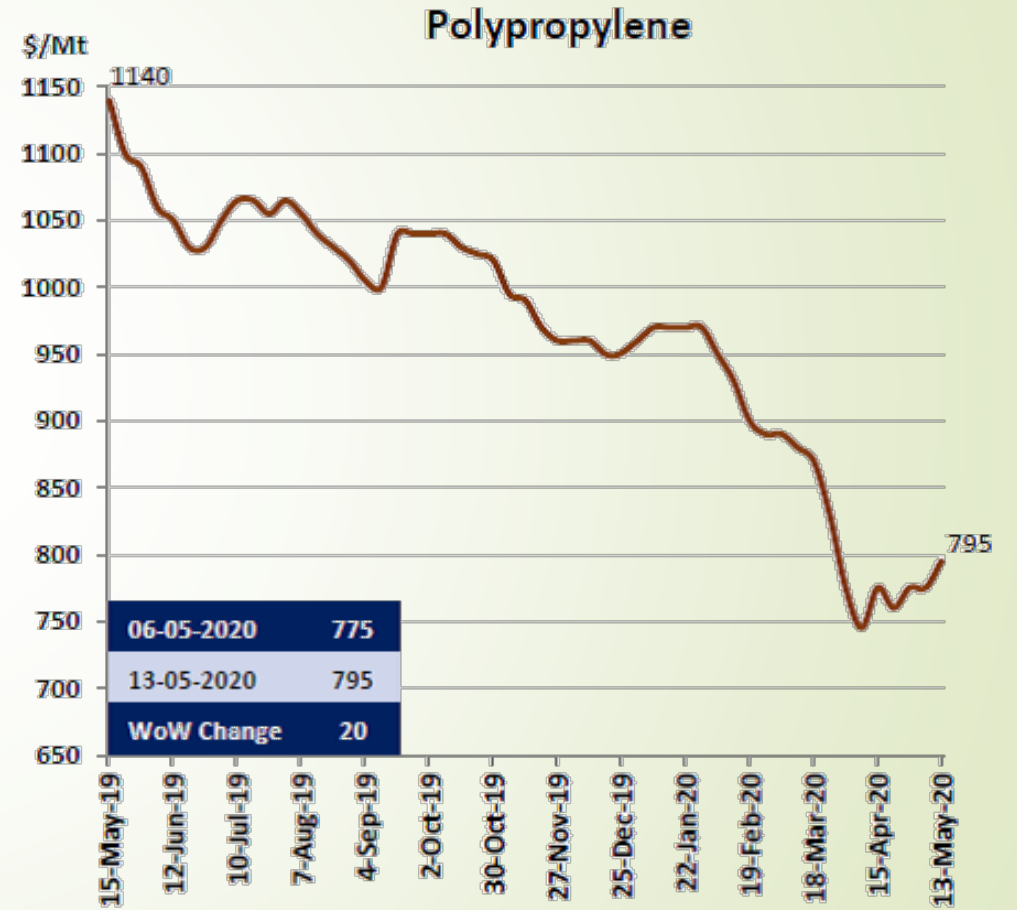
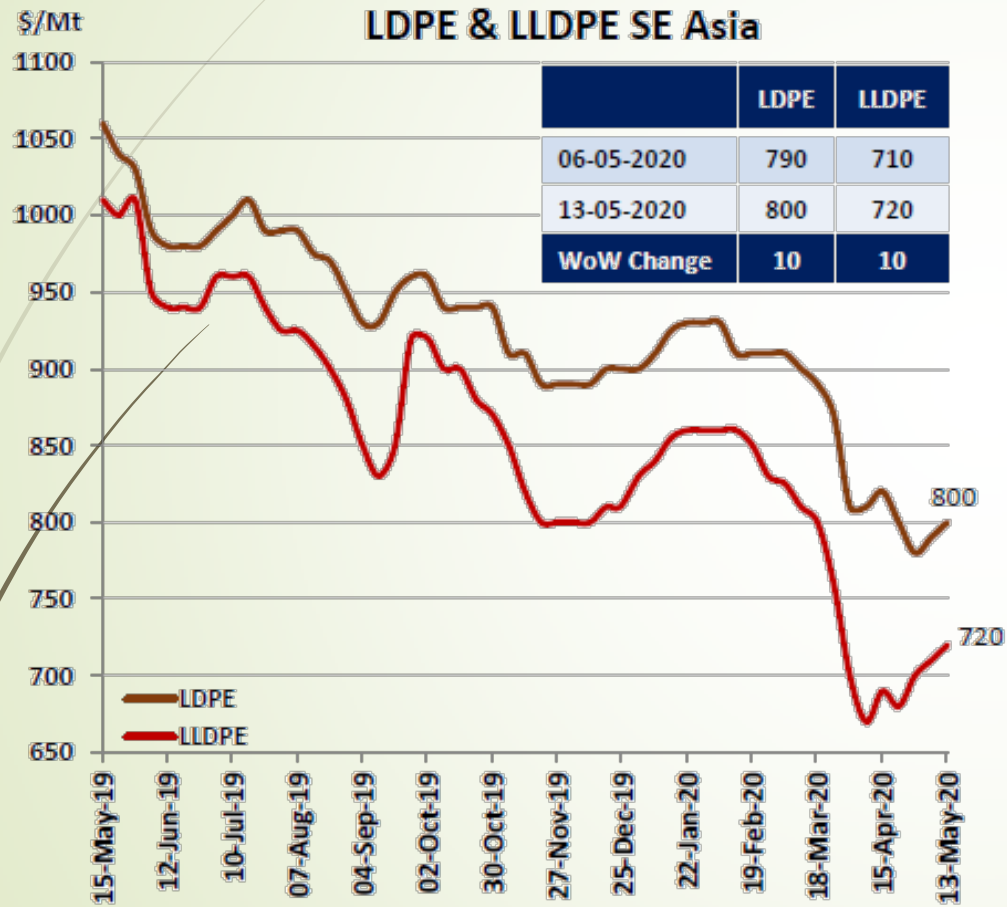


Illustrative – Non Exhaustive

Major Usage is in mixing with Virgin Plastics for reducing cost

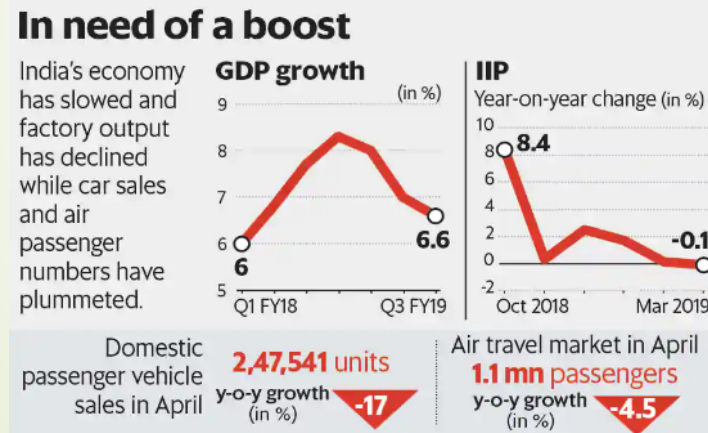


Covid 19 - Recycling Viability in view of Crashing Virgin prices



Major Challenge for recycling Industry

Covid 19 : Policy Reponses



Limited response on plastics regulations



Labor shortages & HSE issues



Operating cost for Recyclers to go up



Covid 19 - Plastics Collection Challenges



Broken supply chain creates window for Virgin Material



Covid 19 : Medium term Impact on Recycling

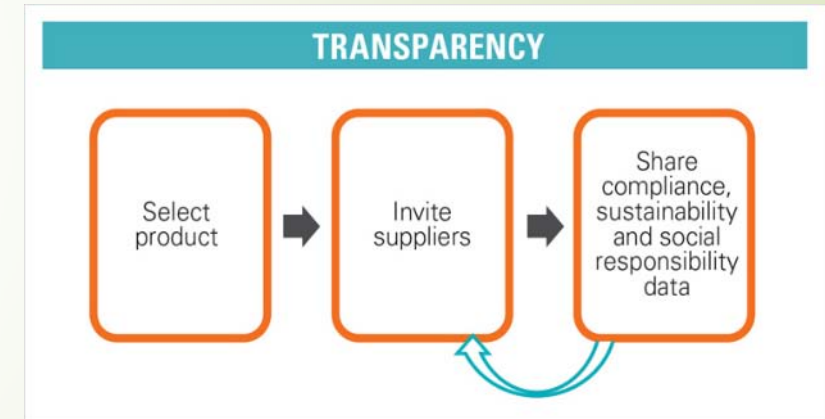
Unorganized to organized sector



Automation



Transparency and Traceability



Positive changes in recycling industry – Policy support can help



Versova Transformation : Plastics Waste Can be Managed



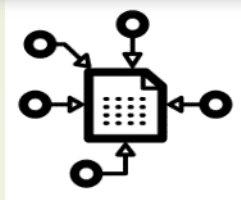
#VERSOVA BEACH CLEANUP



Right Solutions Supports Transformations

Suggestions , Recommendations and Discussion

Data



Design



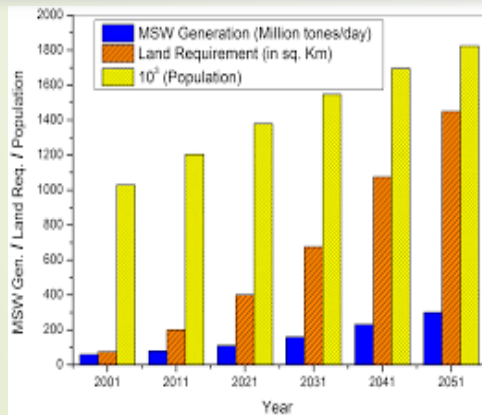
Behaviour



Identity



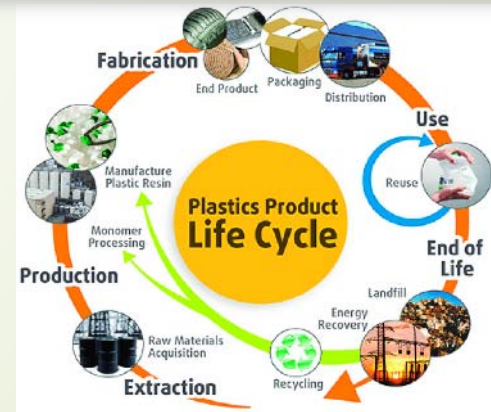
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Recycling Clusters



EOL Solution



With Right Focus, all kinds of Plastics Waste can be Managed

Thank You

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