



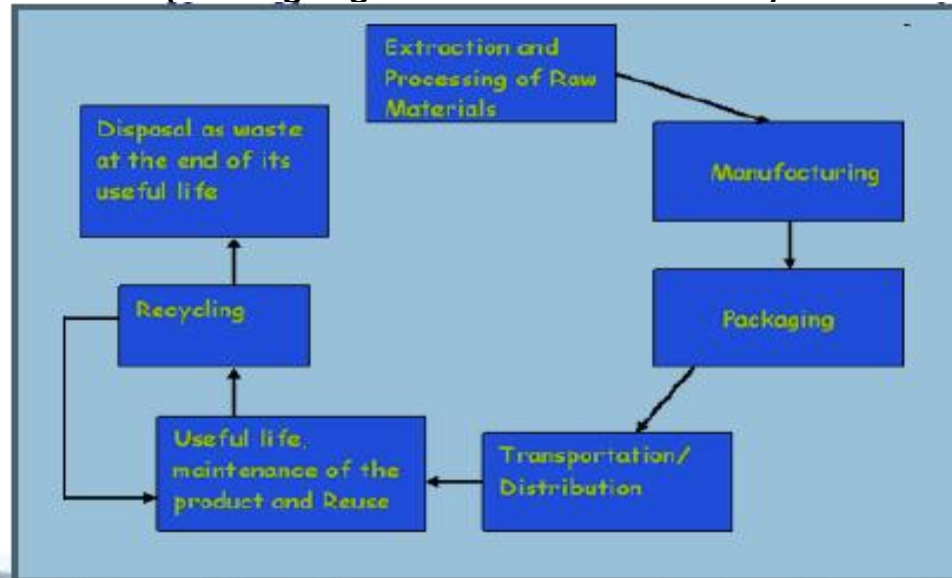
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Plastics 2 fuel division

Plastics to Fuel Technology Conversion of Waste Plastics to Energy

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**Present Life Cycle of Plastic
(Plastic going as non recoverable waste)**



What happens to all this waste plastic?

Some of it gets recycled while the rest is either land filled or incinerated



Gujarat, India



CO₂ Emissions

But such methods have their limitations!

Landfill

- It takes 1000 to 1 mn years for polyethylene bags to break down
- As polyethylene breaks down, toxic substances leach into the soil and enter the food chain, thus Become 100% Non-Green area
- Keep occupying land Plastic bag choke landfills
- On the other hand, Land is a limited resource
- Naturally landfill becomes a costlier proposition.



Gujarat, India

Incineration

1 Kg of polyethylene produces 3.20 kg of Carbon dioxide

It is one of the worst form of air pollution

Also contributes to global warming



CO₂ Emissions

Life Cycle of Plastic Waste with Polymer Energy Technology



1. The Present Methods of Plastic Disposal like Land Fill and Ocean Fill does not allow the waste plastic to reenter the environmental cycle.
2. Polymer Energy Technology can convert the waste plastic into reusable Crude Like fraction which other wise would have ended up in land fills.

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Waste Plastics Quality

The installation can process:

- ✓ PE, PP (polyolefin's)- both industrial & municipal waste
- ✓ Other plastics – car bumpers & computer cases





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**Operating plant at
MK Aromatics Limited
Alathur-603 110 Tamil Nadu**

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Installation at Alathur



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Control Panel



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Product out put Tank



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Different Fraction derived after Distillation of Our Crude Oil



Solid Residue generated from PE Equipment



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Efficient system for Collection of Plastic waste organized by MK Aromatics Limited

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Efficient system for Collection of Plastic waste

- Specially designed for waste plastic handling.
- Mesh placed at the bottom of the container.
- Water and smell gets drained out.
- Its hygienic and safe method of collection
- This will avoid spill out during transportation.



Inside the container



- Specially designed for waste plastic handling.
- Mesh placed at the bottom of the container.
- Water and smell gets drained out.
- It is hygienic and safe method of collection & transportation

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Government Official's visit to MK Aromatics Limited Alathur-603 110 Tamil Nadu

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Ambattur Municipal Commissioner's Visit



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Ambattur Municipal Commissioner's Visit





Secretary DPCC & Director CIPET- Visit



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Secretary DPCC - Visit



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Deputy Director CII - Visit



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Director - General Human settlement and Environment – South Africa



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Chief Engineer – Corporation Bangalore



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Joint Commissioner - Corporation Bangalore



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Visit of Mysore city Corporation – Commissioner K S Raykar



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Team discussing with Chennai Mayor on
PE-Technology



Team discussing with Chennai Municipal Commissioner on PE-Technology



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Rayong Municipality,
Thailand



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Hua-Hin Municipality,
Thailand



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திருநெல்வேலி



மாநகராட்சி

Tirunelveli City Municipal Corporation

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SOLID WASTE MANAGEMENT IN TIRUNELVELI

Total Solid Waste Generated Per day in the Town	:	140M.T.
Total Solid Waste cleared per day	:	100M.T.
Plastic Waste generated per day	:	14 MT @ 10%
Plastic Waste collected per day	:	Approx 2.5MT
No. of Compost Yards available and Extent	:	One, 118 Acre





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Our Proposal – Plastic to Fuel Conversion

- Clean and Hygienic methodology for treating plastic wastes
- No need for segregation of different plastics, waste plastics can be directly processed
- Complete solution to the huge quantity of waste produced
- We can expand our capacity depending upon the waste generation

Direct Benefits to Corporation:

- Development of simple and economically viable technology for environment friendly disposal of waste plastic
- Saving of expenditure for processing plastic waste due to Private partnership.
- Compliance with the MSW 2000 Rule which stipulates that plastic waste are not to be dumped in landfill causing environmental pollutions
- Saving of land used for landfill by almost 70%
- Huge reduction of cost involved in landfill and waste management.

Indirect Benefits to Corporation:

- Improvement of the environment.
- Resource recovery in the form of good quality fuel for industrial use or power production.
- Developed technology will prove to be beneficial to the country for the purpose of catering increasing demand of fuel / energy and will save millions of foreign exchange.
- Employment generation

**Taking initiative in protecting our environment
and making Tirunelveli greener.**

END OF PRESENTATION

