

Metro SWAAC - MRF/CT Subcommittee

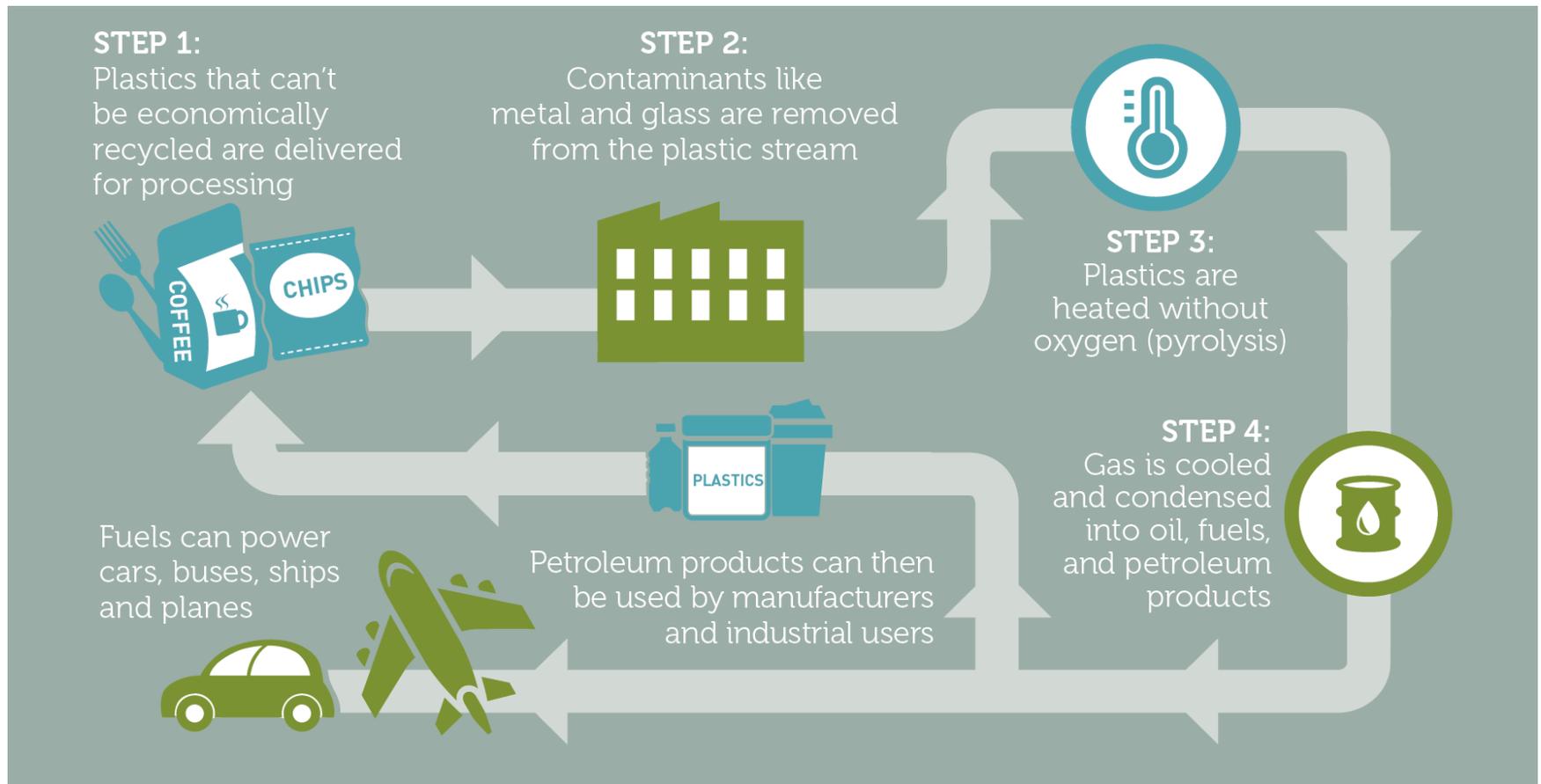
June 16, 2016

Agilyx uses patented, proven, and commercially viable technology to convert difficult-to-recycle waste plastics into chemical commodities through a process that is scalable, versatile, and environmentally positive



Overview of Plastics Pyrolysis

Innovative manufacturers are converting non-recycled plastics into valuable fuels, petroleum products and chemical feedstocks.



Source: American Chemistry Council – Plastics-to-Fuel & Petrochemistry Alliance

Corporate Summary

Who We Are:

The global leading provider of pyrolysis systems for difficult-to-recycle waste plastics

What We Do:

Provide technology to convert waste plastics into synthetic oil, styrene, or specialty chemicals

Corporate HQ:

Tigard, Oregon, USA

Employees:

25 employees

Mature Technology:

Six patents issued; one patent pending

Shipped 800,000+ gallons of Agilyx Synthetic Crude Oil (ASCO)

Produced Agilyx Styrene Monomer from Polystyrene at Tigard Plant

Agilyx History

2004-2008

Gens 1-5

Batch pyrolysis technology commercialized

2012

ASCO TSCA Registration

Agilyx Synthetic Crude Oil becomes US registered synthetic chemical

2013

Gen 6 10 tpd

Tigard commercial demo facility converts to continuous processing facility

2015

Marcus Hook Project Kick-off

50 ton Gen 6 Commercial pursuit in Marcus Hook, PA

2016

Successful Styrene run (Tigard)

2004-2008

2012

2013

2014

2015

2016

2012

Offtake Signed

Signed Offtake with USOR

2013

Gen 5 Projects Commissioned

2014

Production Milestone

Batch process 8 million + pounds of waste plastic

2015

Signed Offtake with Monroe Energy/ Delta Airlines Renewed Offtake with USOR

2016

PA DEQ approves Environmental permits



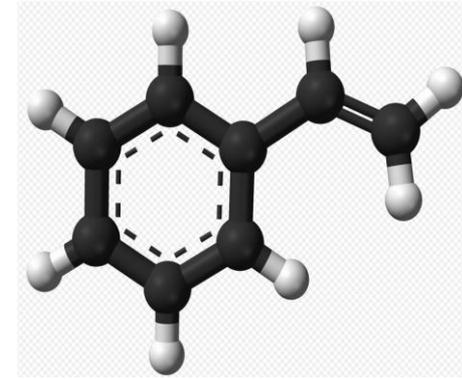
Product Options

Mixed Plastic to Crude Oil



- High quality, low-sulphur, TSCA registered oil that is ready to be refined into drop-in fuel

Polystyrene to Styrene Monomer



- High quality, industrial-grade Styrene that is ready to be dropped into existing styrene or polystyrene manufacturing facilities

Waste Plastic



Pyrolysis



Petrochemical

Feedstock Specifications

- Minimum requirements for total plastics content
- Minimum requirements for “target” or high-yielding plastics content
- Limits for “non-target” plastics such as PET and PVC
- Limits on non-plastics
- Limits on moisture content
- Restricted materials



Agilyx Regulatory Summary

- Solid Waste Conversion Technology Exemption - DEQ
- Simple Air Contaminant Discharge Permit - DEQ
- Waste Water Permit - Clean Water Services (DEQ Contractor)
- Storm Water, No Exposure Certification - Clean Water Services (DEQ Contractor)
- EPA Registration (EPA ID Number)
- Process Safety Management – OSHA
- Local Zoning & Building Permits

How to Support Development...

- Plastics-to-fuel facilities should be regulated like other manufacturing facilities. These facilities receive plastic feedstock that is converted to valuable fuels and petroleum products.
- Making fuels and petroleum products from non-recycled plastic feedstocks complements recycling and other integrated solids waste management programs.





agilyx

7904 Hunziker St.
Tigard, OR 97223
(503) 217-3160
www.agilyx.com



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