

# Agilyx Research Center (ARC)

With more than a decade of experience as plastic depolymerization and advanced recycling industry leaders, **Agilyx is at the forefront of developing break-through technologies and processes to help solve the problem of plastic waste.**



## Services we provide

The ARC provides a range of services including **characterization** and **identification** of plastic streams that can be turned into **feedstock** sources matched to advanced recycling processes. **Projects range from small-scale lab, through pilot plan, to full-scale identification and design of commercial facilities.**

## Expertise in plastic waste

Using our **extensive polymer** and mixed polymer database (including co-polymers, binders, multi-layers), plastics sources can be matched to provide rapid turnaround of suggested pathways. Follow-up with **physical characterization**, pilot-scale processing, pre and post-processing treatment and sample generation provide data that can be used as design input for **full-scale process design projects.**



Rapid matching using our extensive feed-to-product database



Feed characterization services



Detailed feedstock specification definition



Bench and pilot-scale advanced depolymerization



Generation of multi-liter quantities of products for evaluation purposes



Pre and post-process treatment



Feed, product and by-product physical and chemical analysis



Packaged Feasibility Studies



Providing Experimental Data Inputs for scale-up and commercial designs

TURNING PLASTIC WASTE INTO VALUE

## Our innovative solutions

Plastics can be broken down into smaller chemical building blocks, including high-value hydrocarbons and monomer units, allowing currently unrecyclable plastics to enter a circular economy. Agilyx's core pyrolysis processes can handle a variety of waste sources including industrial scrap, plastics collected from environmental clean-up, and materials that have entered the current waste/recycling streams.



### **Styrenyx: Agilyx's advanced recycling technology**

A pioneer in the advanced recycling sector, Styrenyx uses depolymerization to break polystyrene waste back into its virgin-equivalent building block.



### **TruStyrenyx: All-in-one platform for polystyrene waste**

Combines Styrenyx depolymerization technology and Technip Energies' purification expertise to yield a recycled styrene monomer of exceptionally high purity. This styrene monomer can be reused in any styrene monomer end-market enabling a circular economy.



### **Agilyx Synthetic Crude Oil (ASCO)**

Our advanced recycling technology can process mixed waste plastic into ASCO, which can then be refined to naphtha and aromatic chemicals—key building blocks for new plastics and other high-value products.

## Helping our customers **recycle plastic waste**

- Do you have plastic waste or a hard-to-recycle or unrecyclable plastic?
- Do you want to investigate the potential pathways to turning that material into useful products via chemical advanced recycling?
- Do you want to do a feasibility study for recycling of large volumes of material?

We can create a **custom project plan** to match your **requirements and budget** from **“Can I recycle this material?”** to **“I want to build a large commercial facility”** and all points in-between.

BECOME A PART OF THE SOLUTION: [INFO@AGILYX.COM](mailto:INFO@AGILYX.COM)