Re:Lab AB

www.relabware.com

What we do

Low temperature & Normal pressure Conversion of mixed laboratory consumable plasticware waste & end-of-life life science plastics renewable chemicals and new renewable plastics monomers via chemical quality syngas. Not thermal gas or fuel.

The problem we solve

The life science community world-wide produces >5 mega tons of consumable plastics waste annually (Before pandemics). British study shows that each research produces around 1000kg plastic waste per year. None of it is being recycled. They are either incinerated or landfilled, adding to the global plastic crisis.

Our value proposition

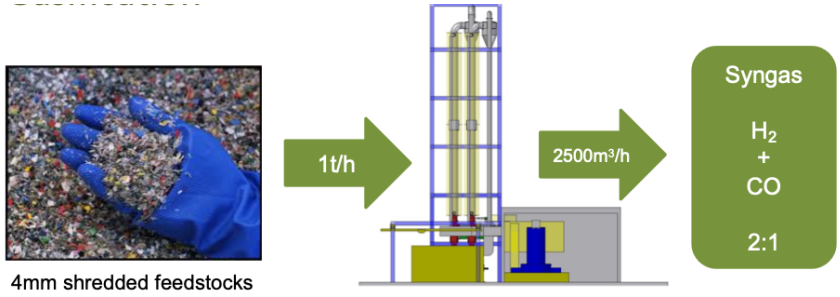
Closed-Loop or Open-Loop Circular economy solution for life science consumable plastics; 6x Carbon emission reduction certification; End-use certification; Reverse logistics of laboratory plastic waste; Gasification as a Service (GaaS); Renewable technical gases for chemical process

Hydrogen ; CO for methanol synthesis, NH3, Methanol or Olefines

Contribution to SDG:12 – We are the link between sustainability end plastics circular economy; 13 – We decarbonize fuels and processes; 14- We depollute the seas and rivers by removing the contaminating plastics; 15- Removing contaminating plastics from land.

Product & Service description

Our proprietary low-temperature & normal pressure conversion (LTC) plants utilize progressive thermo-catalytic material gasification in tween serial coupled, 10m towers, with 18 temperature segments. The material is steam gasified by infra-red radiating heat bellow 450°C and integrated gas purification, all within a hermetically closed system. The result is a clean process with very high yield. The plants fluidized bed reactors allow for continuous flow while inductive heat transfer decomposes organic structures into their constituent elements in a multi-stage process.



Management Team

Flavio Ortigao, CEO; Anthony Theuma, CFO; Bertil Davidsson, Life Science Specialist; Ingmar Kroon, Communication

What are we looking for

On the supply side, we are looking for partners that supply us with their life science mixed plastic waste (MPW), not clean, and are interesting in a circular chemical recycling solution. On the product side, we are looking for companies that can take off our syngas or the separated technical gases as renewable feedstock for their chemical processes. For technical reasons, we need to colocate our compact plant at or close by the off-take partner.