WPU
A VITOL COMPANY



Plastic recycled. Indefinitely

WPU turns end-of-life plastic into valuable feedstock for new products, supporting a more circular plastics economy

A WORLD FIRST

WPU's unique process and technology is the first to create a scalable recycling solution to end-of-life waste plastic.

Chemical recycling will be critical to ensuring the E.U. achieves its circular plastic targets by 2030. WPU uses chemical recycling to process waste plastic into products that can be used to make more plastics, or more sustainable transport fuels.

PLASTIC WASTE – A GLOBAL PROBLEM

Plastic waste is a global challenge, with less than 10% recycled each year. Some plastics can be mechanically recycled, but others are poorly sorted, contaminated or too complex to be processed in this way. Usually, this material is incinerated, landfilled or released into the environment, polluting oceans and waterways.



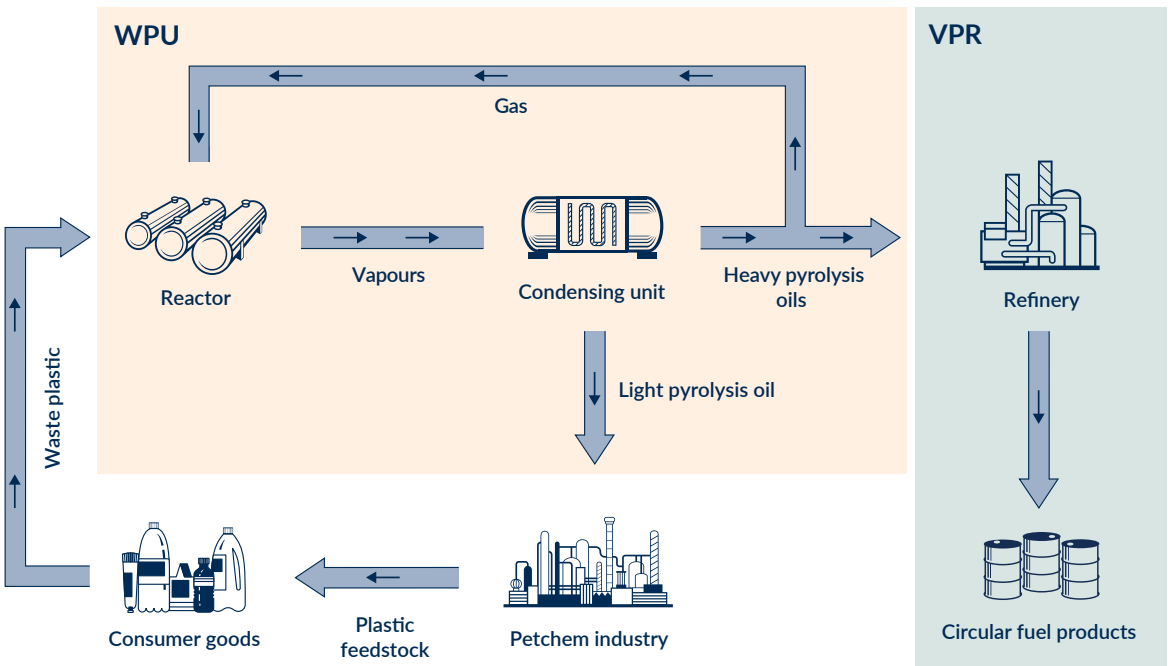
WPU – A CIRCULAR SOLUTION

WPU's unique process turns plastic back into oil products, for use as fuel or feedstock for new plastic production. Acquired by Vitol in 2025, WPU successfully recycles 15,000 tonnes of end-of-life plastic at its Fårevejle plant in Denmark each year, which should increase to 20,000 tonnes by 2028.

How it works
WPU's proprietary technology converts the waste plastic into gas, through a batch pyrolysis process, the gas is then condensed and distilled into usable products.

HEAVY AND LIGHT PYROLYSIS OILS: If necessary, these can be upgraded and refined into hydrocarbon products. They are chemically identical to products derived from crude oil and can be used in fuel or as feedstock for plastic production.

GAS: The gas produced is cleaned and routed back to the reactor to be used as a circular fuel source.



WPU – ROTTERDAM

WPU intends to build a second plant at the Port of Rotterdam. The facility is expected to process 80,000 tonnes of waste plastic each year initially, with ambitions to expand to 150,000 tonnes annually. This would make WPU the largest chemical recycling plant for end-of-life plastics in Europe.

The facility will be located next to Vitol's VPR refinery, one of Europe's most efficient, which will process the heavy pyrolysis oil produced by the WPU plant. The lighter pyrolysis oil will be supplied directly to the petrochemical industry.

The project is part of the Dutch government's VEKI and DEI+ grant initiatives for innovative green energy technology.

