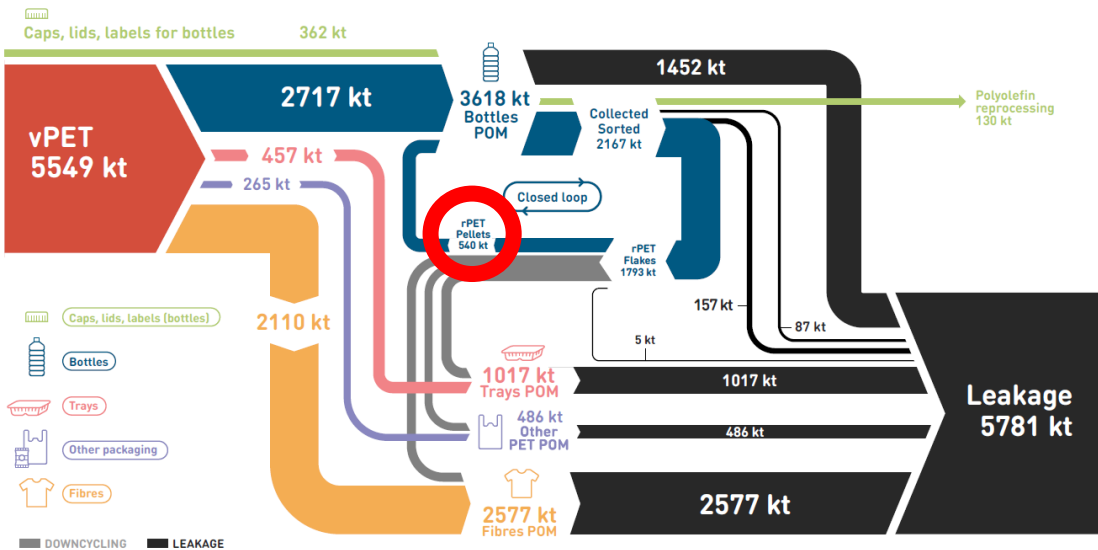


European PET Mass Flows



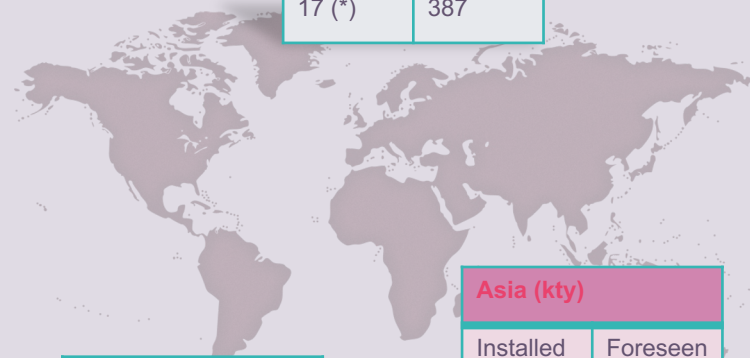
~10% (540 Kty) of the PET needs are covered by circular recycling (mainly mechanical)

~5.8 Mty PET not yet circularly recycled in Europe

source : PET MARKET IN EUROPE STATE OF PLAY 2022 (Eunomia)

PET chemical recycling growth

Europe (kty)	
Installed	Foreseen
17 (*)	387



North America (kty)	
Installed	Foreseen
60 (*)	674

Asia (kty)	
Installed	Foreseen
168 (*)	601

(*) excluding Flakes to Resin systems

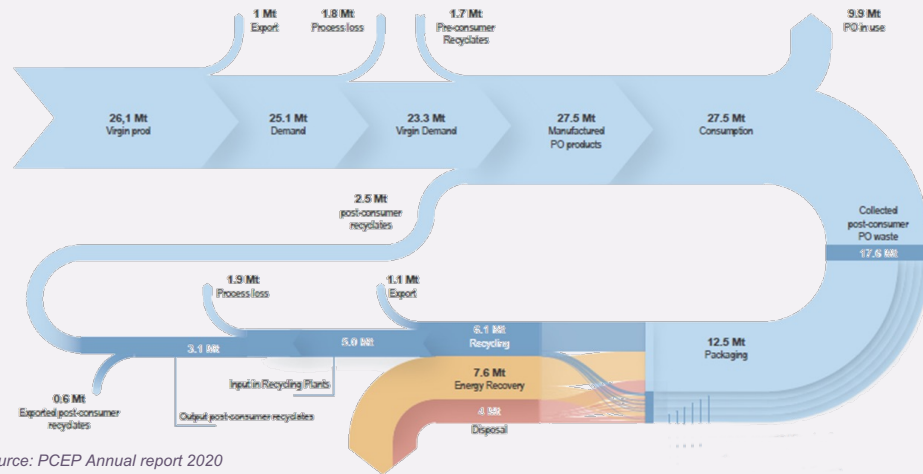
Source: IFPEN

POLYOLEFINS RECYCLING

Today
10% / 2.5 Mty
 of consumed PO in EU come from recycling
 (mechanical recycling)

>11.6 Mty
 Polyolefins go to energy recovery / landfill

PO MATERIAL FLOW IN EU, UK, CH AND NO IN 2019



Source: PCEP Annual report 2020

As a complement to mechanical recycling, **chemical recycling is increasing significantly** driven by strong market demand and technology maturity

Market Pull



High recycled LDPE market value



Food contact recycled materials

Technology Maturity

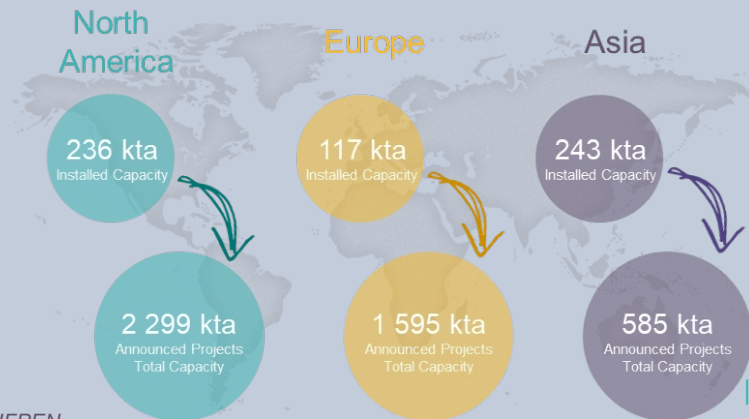


Already long industrial experience in plastic pyrolysis (>10 years for some actors)



No more dilution constraints for co-processing PyOil into existing Steam Crackers thanks to new available purification technologies

FAST DEPLOYMENT OF THE PLASTIC PYROLYSIS PATHWAY TO COMPLEMENT MECHANICAL RECYCLING



Source: IFPEN