DePoly

Petcore Europe's Depolymerization WG webinar – **DePoly** update

w / depoly.co

RETHINK RECYCLING

DePoly

Energy-efficient chemical recycling technology, uniquely able to handle mixed waste streams.

- EUR 17M total funding
- Backed by BASF, Beiersdorf, CIECH, among other investors

Switzerland

- Alkaline **hydrolysis depolymerisation** process for pre- / post-consumer, and post-industrial PET

01

- **Selective room-temperature reaction**
- Processing unsorted, dirty, and mixed feedstock (no pre-washing, pre-sorting)

02

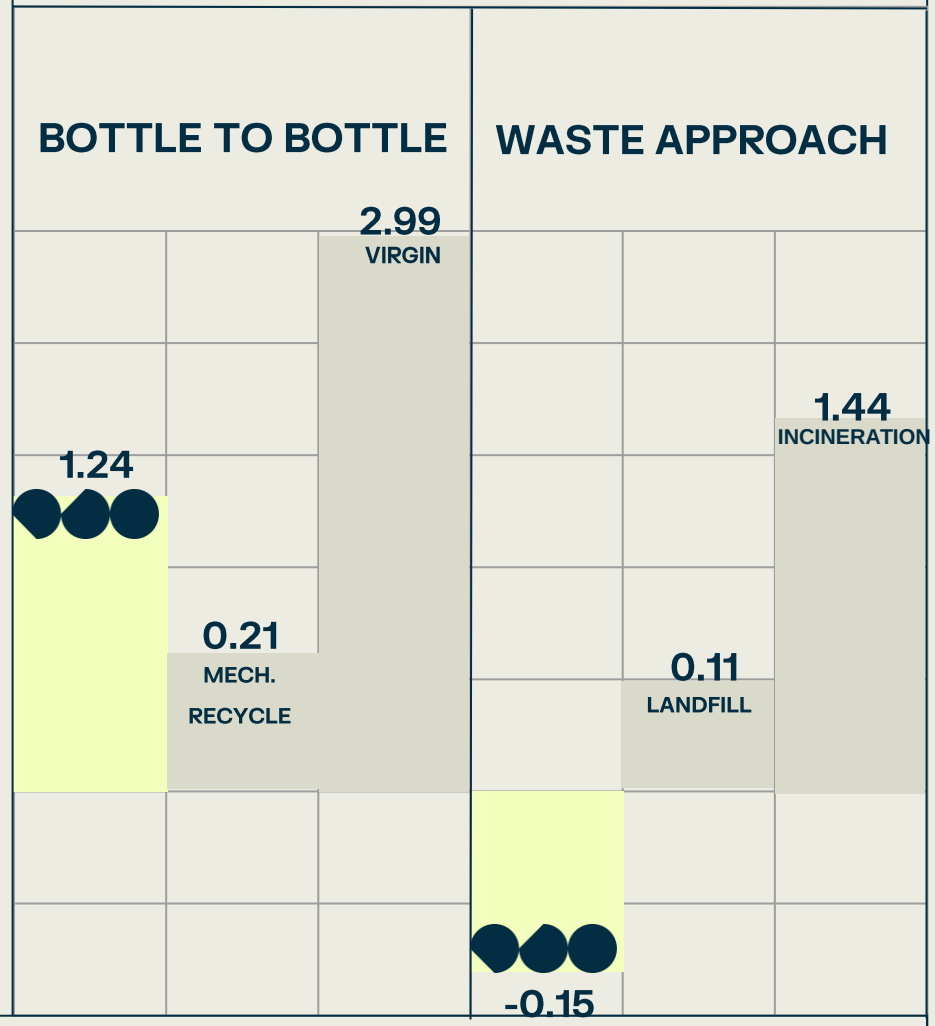
- Outputs are **virgin-quality PTA and MEG**
- 65% lower CO2 emission
- Material recovery

03

ROOM TEMPERATURE & STANDARD PRESSURE PROCESS

- NO ADDED HEAT OR PRESSURE
- NO PRE-WASHING, SORTING, OR SEPARATION
- MIXED STREAMS
- INFINITE, CLOSED LOOP
- GREEN CHEMICALS
- LOWER ENERGY
- CAPEX EFFICIENT
- TAILORED, EASY, QUICK INSTALLATION

LOWER CO_2 FOOTPRINT



Virgin quality PTA and MEG

- Purity confirmed by third parties, as well as our own internal QA lab

Formed without recrystallization

PET IN ANY FORM & SHAPE

UNSORTED
- Mixed plastic and textile streams
- Contaminated with food, cosmetics, chemicals, etc.

DYED
- Multi-colour

BLENDED with
- Cotton, leather, metals, nylon, silicone, other plastics, etc.

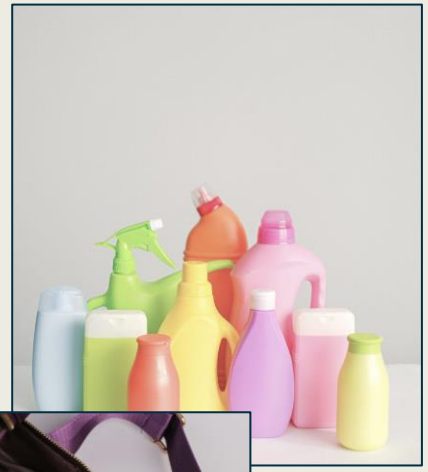
...with the ability to separate and recover other materials in the process.

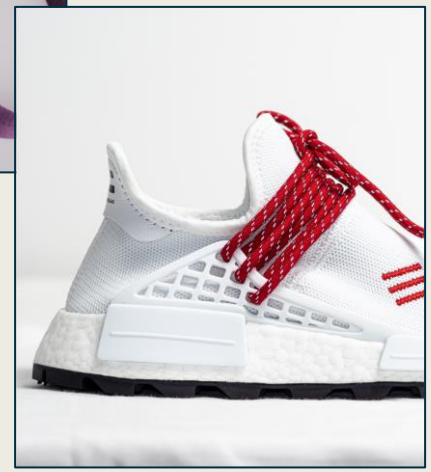
PURE RAW MATERIAL

PTA

PURITY — 99.9%

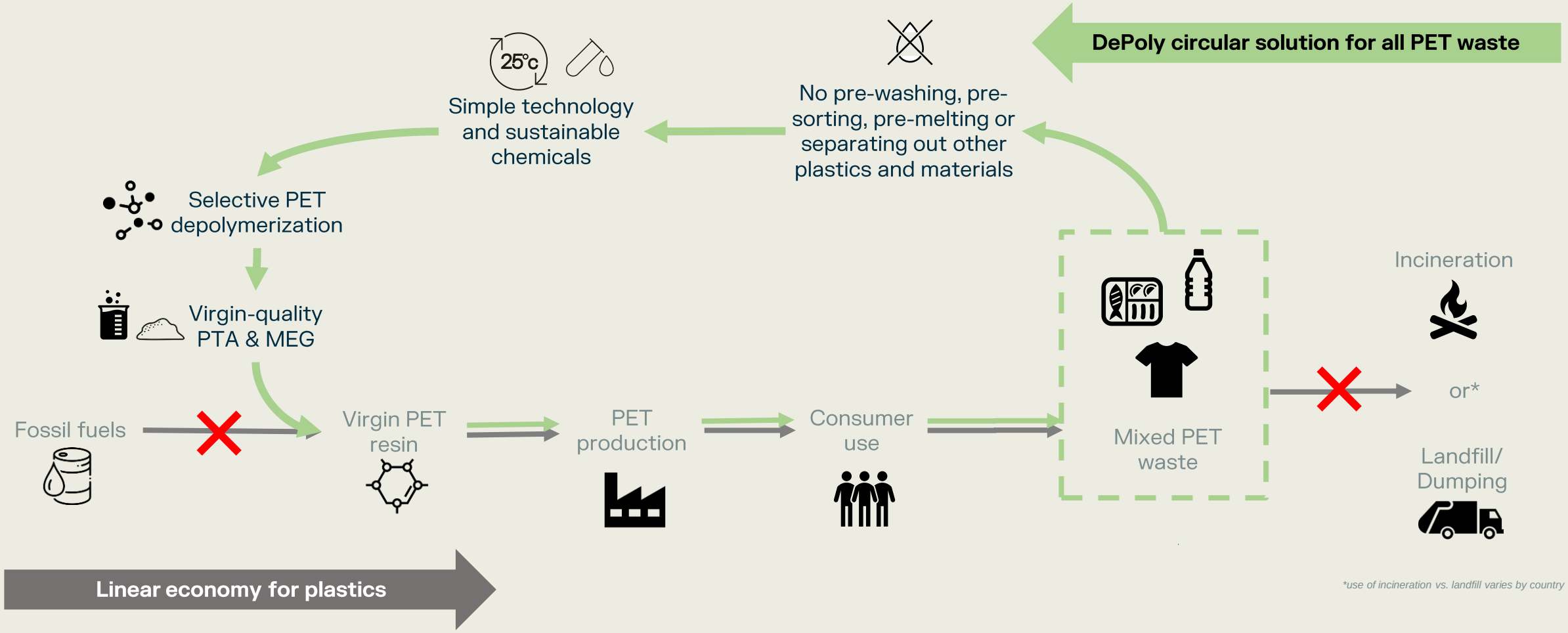
L, B* — 99.7 , 0.2





We are constantly expanding our portfolio, currently working on other plastics such as PU, PLA and PBT

GREEN SOLUTION FOR **SUSTAINABLE RAW PET PRECURSORS**



DePoly

Expanding our impact

- **2020**: DePoly SA formed — **Sion, Switzerland**
- **2022:** operational TRL7 pilot plant
- **2025:** 500t/y showcase plant
- **2027:** first 50kt/y commercial plant

APPLICATIONS & OPPORTUNITIES

Increase collection and recycling

Our robust technology can process any PET plastic, diverting materials from landfill and incineration

Increase supply of rPET

Our virgin-grade raw materials can help companies to meet their rPET objectives

Create a circular economy

Enabling local solutions for bottle to bottle, textile to textile, and everything in between

Increase supply chain resilience

New circular supply chains create resilience to oil price volatility and changing regulatins (e.g. transport)

Reduce CO2 footprint

New plastics can be produced without depleting Earth's natural resources, reducing CO_2 emission

Increase accessibility to consumers

Our efficient process can reduce costs for rPET production and waste collection... sustainability can be accessible!

Cleaner World for the Next Generations with Plastics made Pure

Bardiya Valizadeh

b.valizadeh@depoly.co

DePoly