

Plastic Back

We View Waste Differently

A low temperature, chemical process, that converts PVC and other difficult-to-treat waste streams BACK to all their valuable oils & chemicals.



Co-funded by the
European Union



Ministry of Energy
www.energy.gov.il



Waste & Wastefulness



Global demand for sustainable plastic feedstock exceeds supply by more than 99%, driving up prices of non-virgin materials. This supply gap creates a strong market opportunity for alternative feedstocks derived from waste plastics.



Companies already
integrating alternative oils

BASF
20,000 ton /
year

BP
60,000 ton /
year

Braskem
250,000 ton /
year by 2025

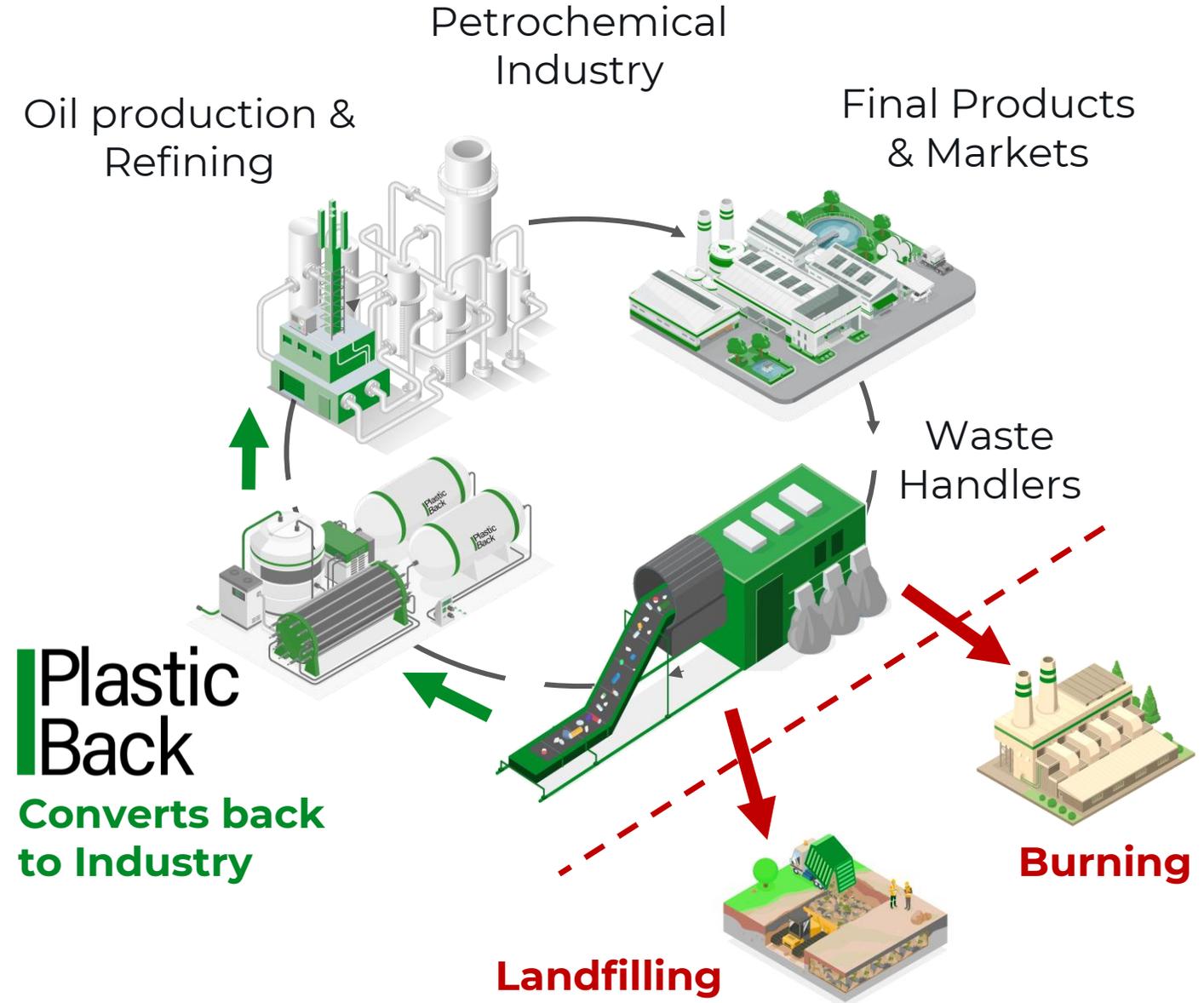
INEOS
30,000 ton /
year

Neste
55,000 ton /
year

Total
80,000 ton /
year

A Circular Value Offering

Plastic Back returns unrecycled plastics back to the economy by converting them into valuable oils & Chemicals.



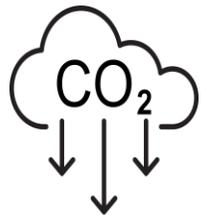
Solution & Advantages



Energy efficient Conversion occurs under 100 °C.
Competition: 600-1,200 °C.



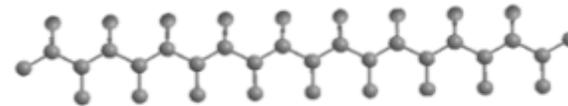
Can treat 'difficult' plastic types including 100% PVC, mixed and contaminated



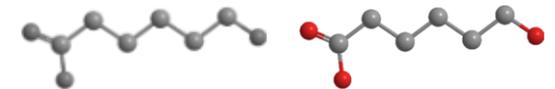
Low Temperature = CO2 and other GHG emissions are extensively reduced

| | Mechanical Recycling | Pyrolysis | PLASTIC BACK |
|-----------------|----------------------|-----------|--------------|
| Mixed Materials | ✗ | ✓ | ✓ |
| Scalable | ✗ | ✓ | ✓ |
| CO2 Reduction | ✓ | ✓ | ✓ |
| PVC Tolerance | ✗ | ✗ | ✓ |
| Non-Thermal | ✗ | ✗ | ✓ |

Plastic Polymer:



Products:



Traction Overview

Paid POC's Clients

>10



Patents

X 2

First Patent
Granted
Worldwide

VC Investors



International grants



Awards



1st

SDGs



Trading Agreements

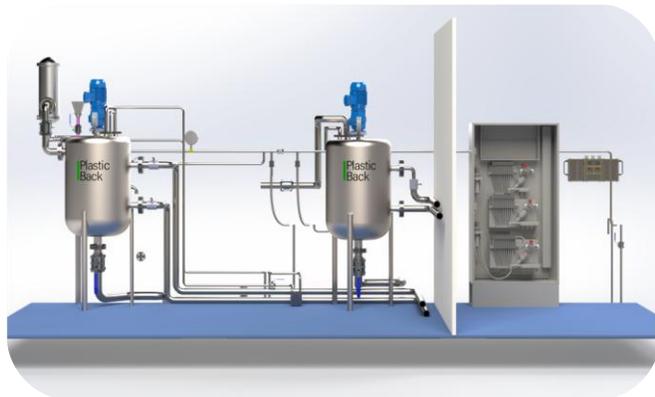


LOI signed to purchase at least 30% of
Plastic Back's credits.

2025 Pilot Project USA



Ohio Designated Pilot facility



Plastic Back chemical recycling unit

The JV Partners



**Plastic
Back**

**Pilot Budget
USD 3M**

**2025-2026 operation target
30 ton / annum**

**Oil offtake
agreements**



Funding



German Industrial Offtake Pilot

Avery Dennison supplies

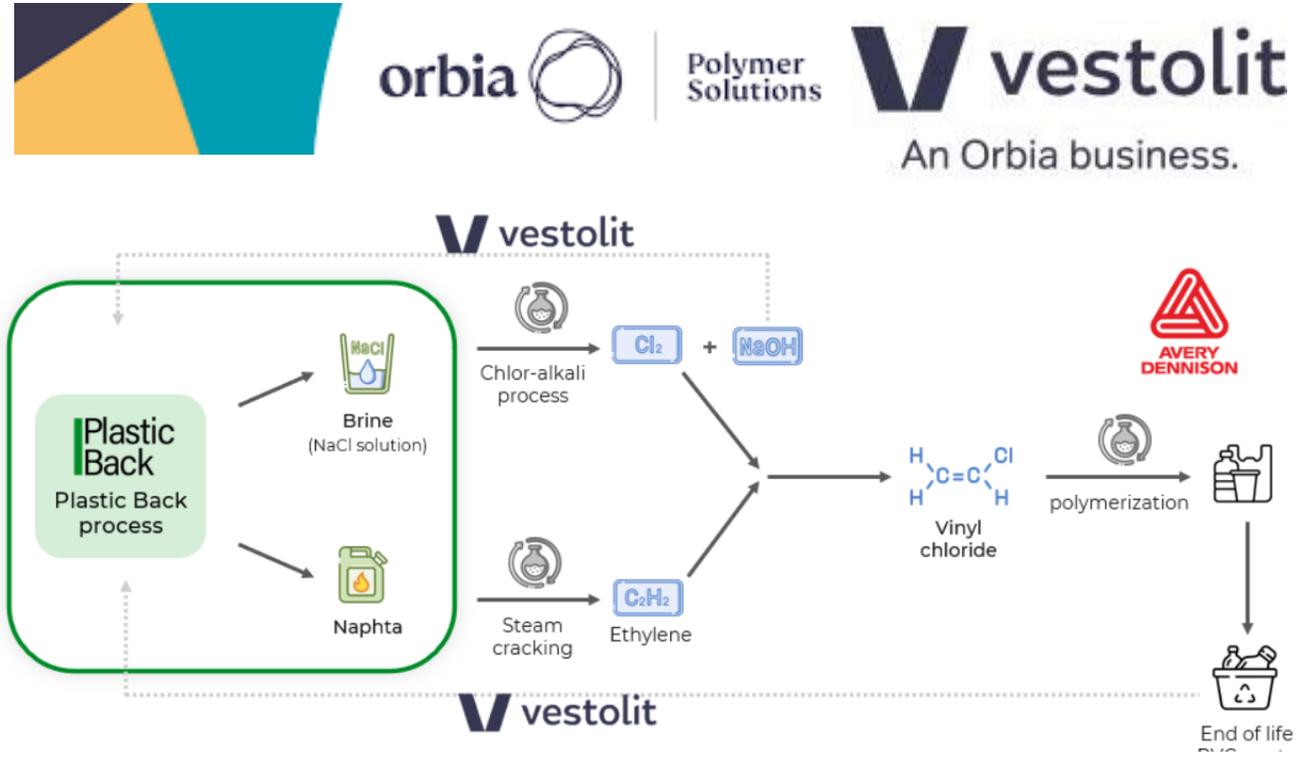
PVC waste from German made industrial operations.

Plastic Back converts

the waste into brine and oil.

Vestolit-Orbia integrates

the brine into its chlor-alkali process and the oil into its steam cracker, **producing new recycled PVC for the European market.**



Roadmap

2022

R&D. POC's
Laboratory
scaleup



2026

Piloting



2032

160 KT
€ 160M Rev.



2025

Semi
Commercial



2027

First commercial.
5,000 t/ annum

Team



Tal Cohen MBA. CEO
Renewable energy start-ups.
Biz Dev and project management



Nitsan Papo Senior Chemist
Chemistry & Materials Science



Shahar Cohen VP Eng.
Over 10 years of engineering scaleup



Rotem Kelman Senior Chemist
Organic and polymer chemistry



Asaf Porat CFO
IPOs, VC, and investment banking



Uri Stoin Ph.D. CSO
Advanced oxidation process,
green chemistry catalysis



Alex Braun MBA. COO
R&D in biodegradable polymers
and environmental projects



Prof. Yoel Sasson Advisor
Co-inventor.
Casali Center for Applied Chemistry



Heral Mehta Board Member
Financial modelling, venture capital,
and business development.

Plastic Back

Current Opportunities

€15M Series A round EU market expansion starting 2026

€1M SAFE round open to complete industrial pilot and bridge to Series A

Collaboration opportunities with companies in pyrolysis, petrochemicals, PVC production and advanced recycling to integrate our technology into joint industrial applications.

