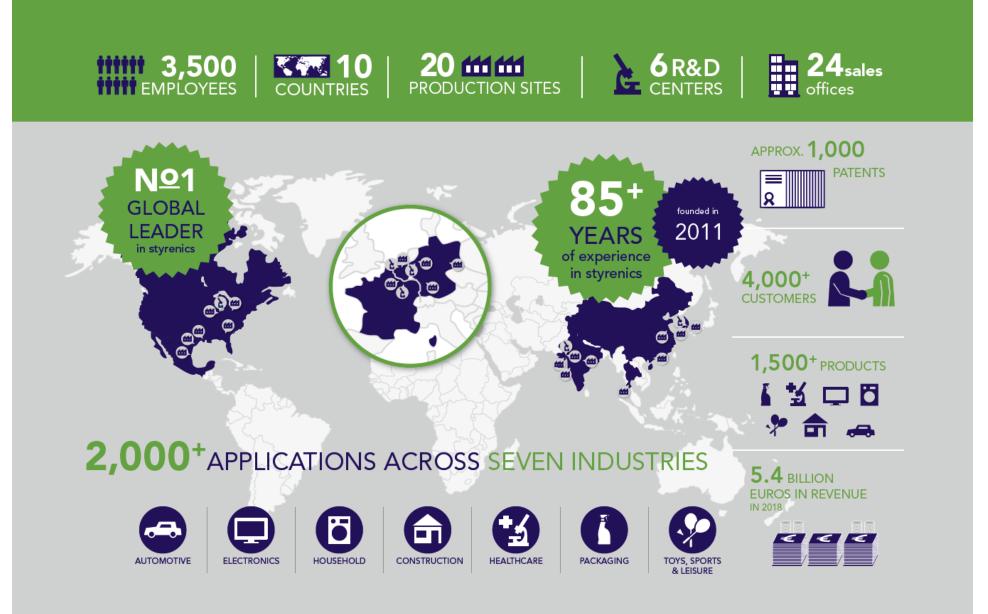
INEOS STYROLUTION

Driving Success. Together.

Styrenics. Made for Recycling!

Sven Riechers
INEOS Styrolution Switzerland S.A.

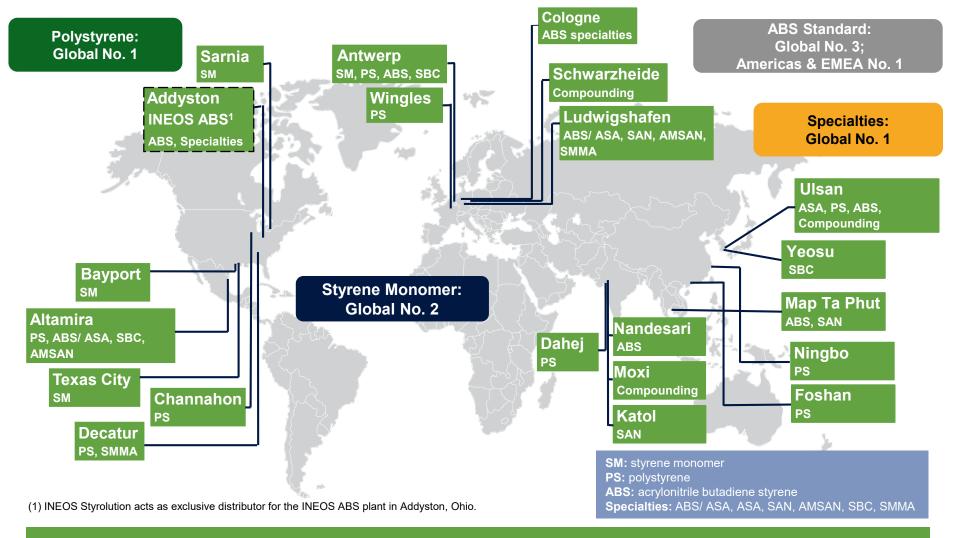
INEOS Styrolution at a glance





Leading styrenics producer with

global reach and proximity to customers



INEOS Styrolution continuously strengthens its leading positions in key markets



Styrenics provide a competitive edge

for a wide range of customers

Right solution for a broad range of applications across key industries

























































Customer industry diversity allows for greater business stability



We are actively contributing to a circular economy – as an industry, a group and a company

Plastics/ styrenics industry

- Plastics 2030
 Voluntary
 Commitment
- Styrenics Circular
 Solutions

Find and define joint solutions with high leverage as an industry

INEOS Group

- Best practice and experience exchange
- Explore joint opportunities and projects

Leverage on group capabilities of a major player in chemicals

INEOS Styrolution

- Support the shift to a circular economy
- Develop the best solutions in recycling of styrenics

Offer our customers leading-edge sustainable choices





We at INEOS have given ourselves a

highly ambitious challenge

By 2025, INEOS will:

- Use, on average, 30% recycled content in products destined for polystyrene packaging in Europe.
- Offer a range of polyolefin products for packaging applications in Europe containing 50% or more recycled content.
- Deliver 900kt/a vinyl recycling by our leadership of the VinylPlus programme.
- Incorporate at least 325kt/a of recycled material into products.
- Ensure 100% of polymer products can be recycled.

THE WORD FOR CHEMICALS



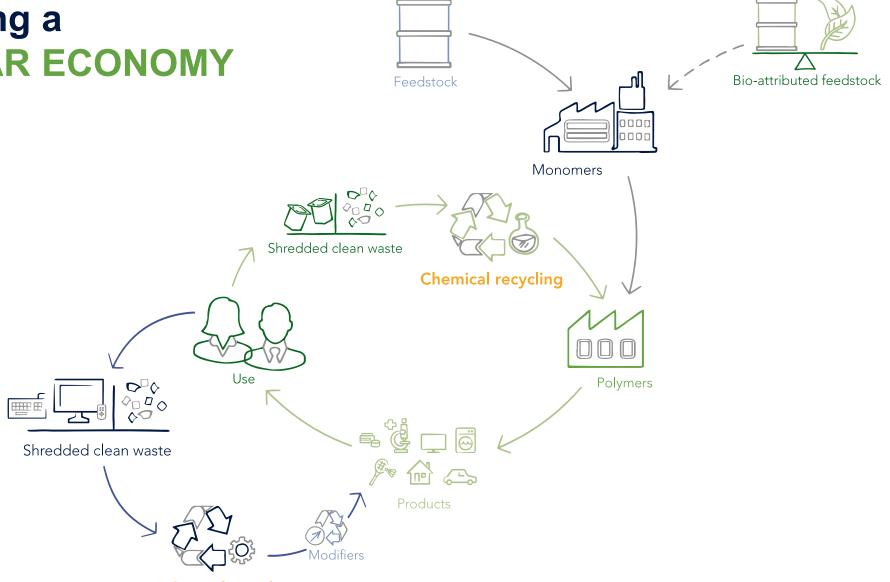




We close the loop for you!



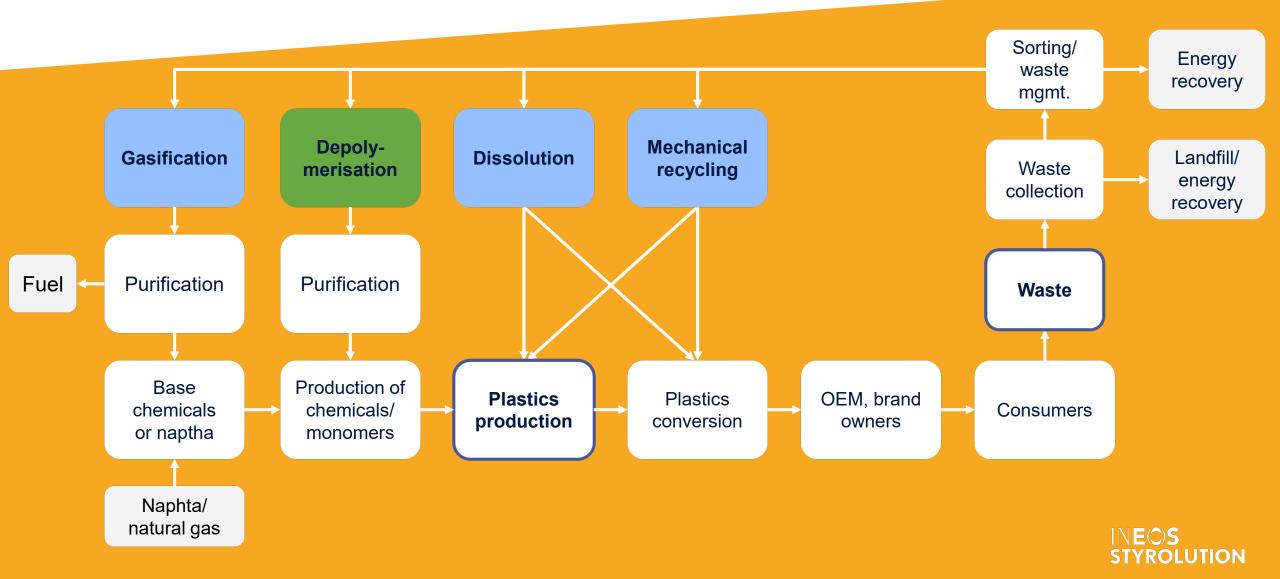
INEOS Styrolution is enabling a CIRCULAR ECONOMY







New plastics economy: Options for a circular economy



Depolymerisation to styrene uses the unique

properties of polystyrene

- Inherent advantage of polystyrene is the decomposition into monomers (depolymerisation) > thermal cracking ("zip mechanism") from 280°C onwards
- Depolymerisation is possible in various reactor types at temperatures of typically 350 - 500 °C







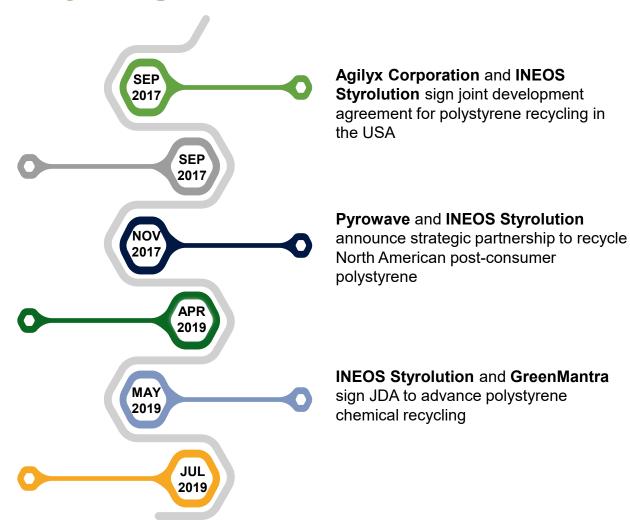
INEOS Styrolution

The road to chemical recycling 1/2

ResolVe: INEOS Styrolution receives public funding from the German Federal Ministry of Education and Research for a research project to recycle polystyrene post-consumer waste

INEOS Styrolution: Breakthrough in chemical recycling of polystyrene: first production of virgin PS from only depolymerised material

INEOS Styrolution collaborates with **Unternehmensgruppe Theo Müller** to develop chemical recycling solution for polystyrene





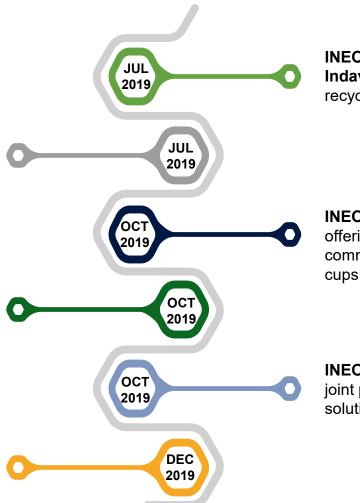
INEOS Styrolution

The road to chemical recycling 2/2

SCS members Trinseo and INEOS
Styrolution plan commercial scale
polystyrene chemical recycling plant with
Agilyx in Europe

INEOS Styrolution launches new ECO family of sustainable products

INEOS Styrolution receives prestigious ICIS Innovation Award for chemical recycling of polystyrene



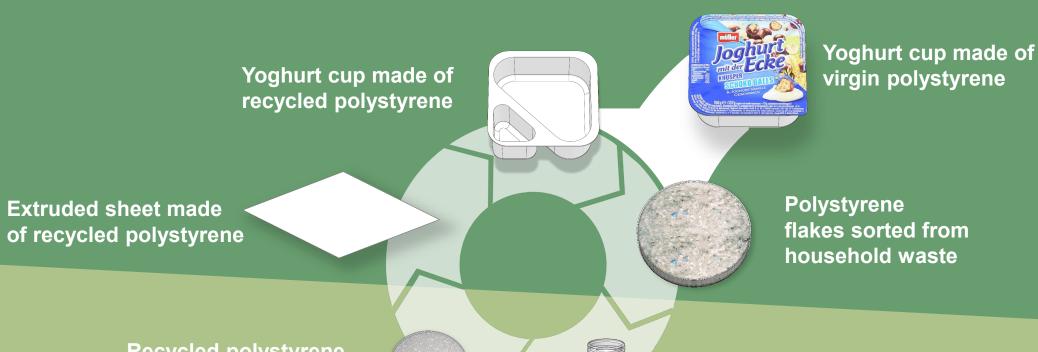
INEOS Styrolution collaborates with **Indaver** aiming at a chemical recycling for polystyrene

INEOS Styrolution advances closer to offering recycled polystyrene at commercial scale (K Show - first yoghurt cups from chemically recycled PS)

INEOS Styrolution and **Sirap** agree on joint project aiming at depolymerisation solution for polystyrene



Depolymerisation process – From yoghurt cup to yoghurt cup



Recycled polystyrene (rGPPS from recycled styrene monomer)

Styrene oil after depolymerisation

Recycled styrene monomer after distillation

Proof of concept:

Styrenics are made for recycling!

In April 2019,
we achieved a breakthrough
in chemical recycling by
producing
100% recycled polystyrene
at lab-scale

Same product
properties as
polystyrene
produced
from new styrene
monomers

In September 2019, Unternehmensgruppe Theo Müller develops first yoghurt cups from chemically recycled polystyrene.

We plan to produce recycled polystyrene at commercial scale in 2021

Concept proven on lab scale.

Now, we'll work with our partners on scaling it up.





For more details, visit styrolution-eco.com