

# Is chemical recycling a game changer?

A brief view of the Plastics2Chemicals installation



- Geert Torremans
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- CEWEP\_GDANSK

# Indaver offers solutions in North-West Europe



1 shareholder  
Katoen Natie



5.1 million tonnes  
Waste management



2000  
Employees



1.1 million tonnes  
Waste for material recycling



265 950\* families  
Energy recovery  
\*(equivalent)



31  
Operational sites in Europe



Meath, Ireland



Alphen, The Netherlands



Ijmuiden, The Netherlands



Doel, Belgium



Willebroek, Belgium



Antwerp, Belgium



Hamburg, Germany



Biebesheim, Germany

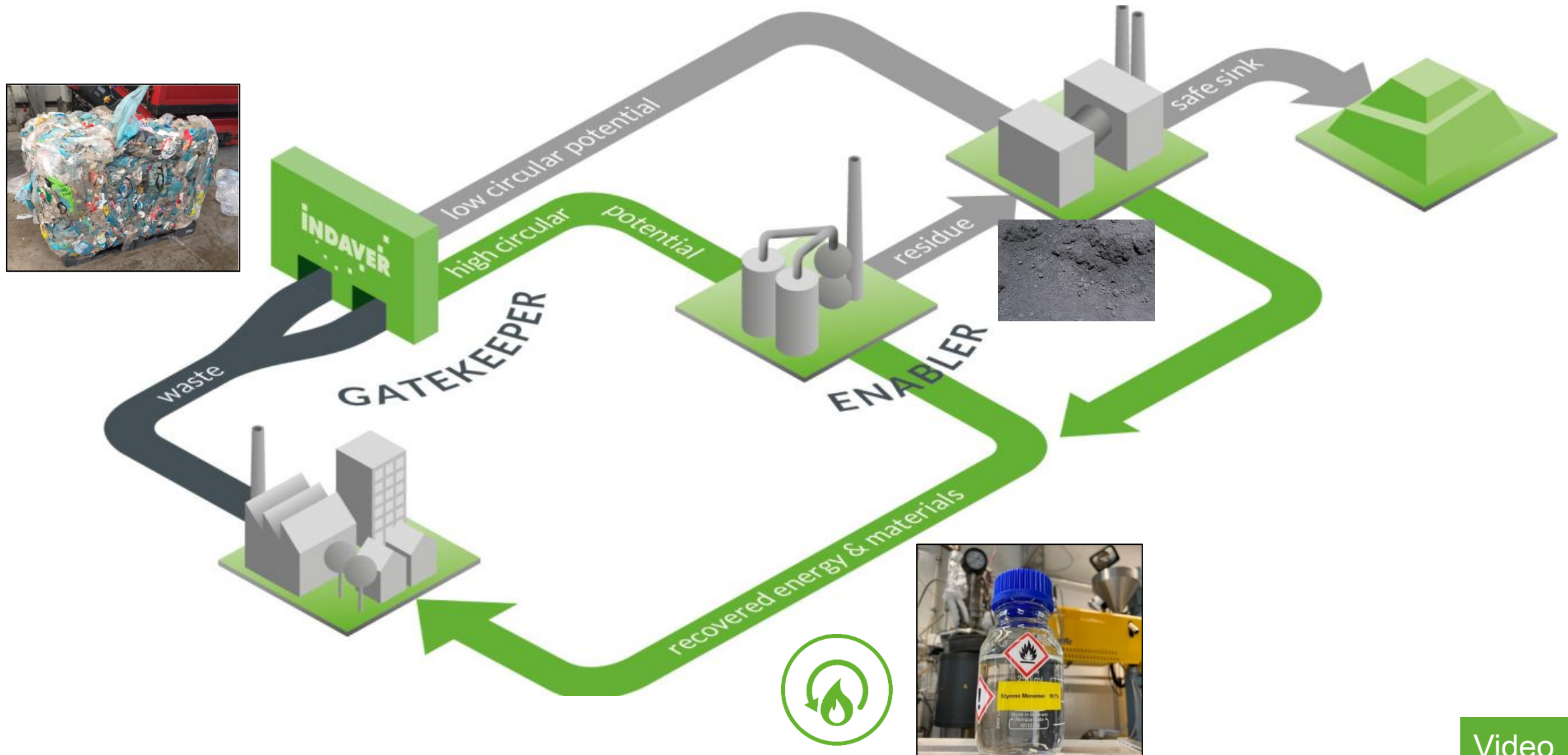


# Plastics2Chemicals: A circular economy enabled by advanced recycling





# The circular economy has to remain clean and safe



## Our path till today

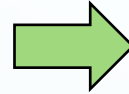


# Our path till today

2017



2019



2025



Universiteit  
Antwerpen



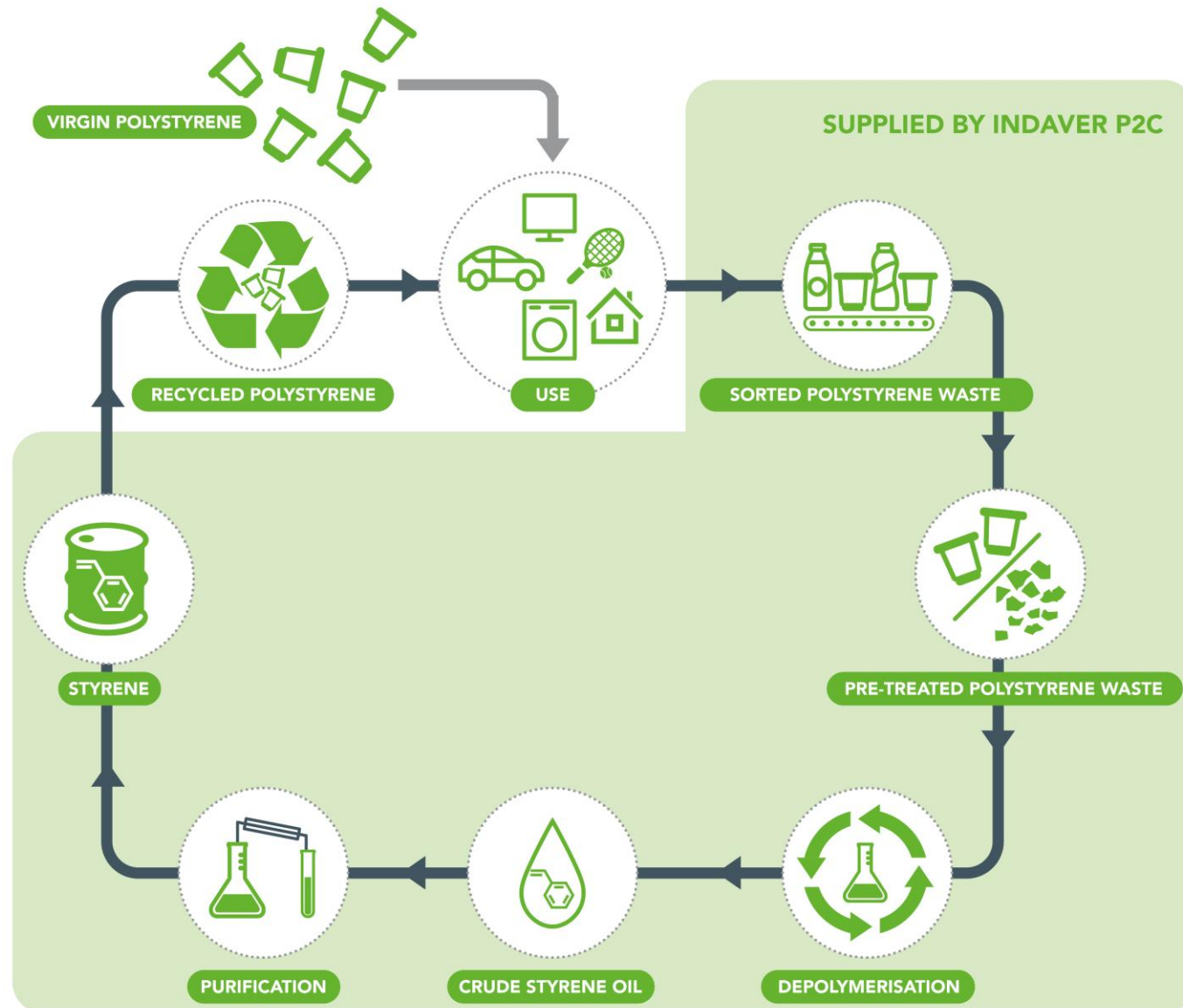
Establishing network and setting up partnerships

KU LEUVEN

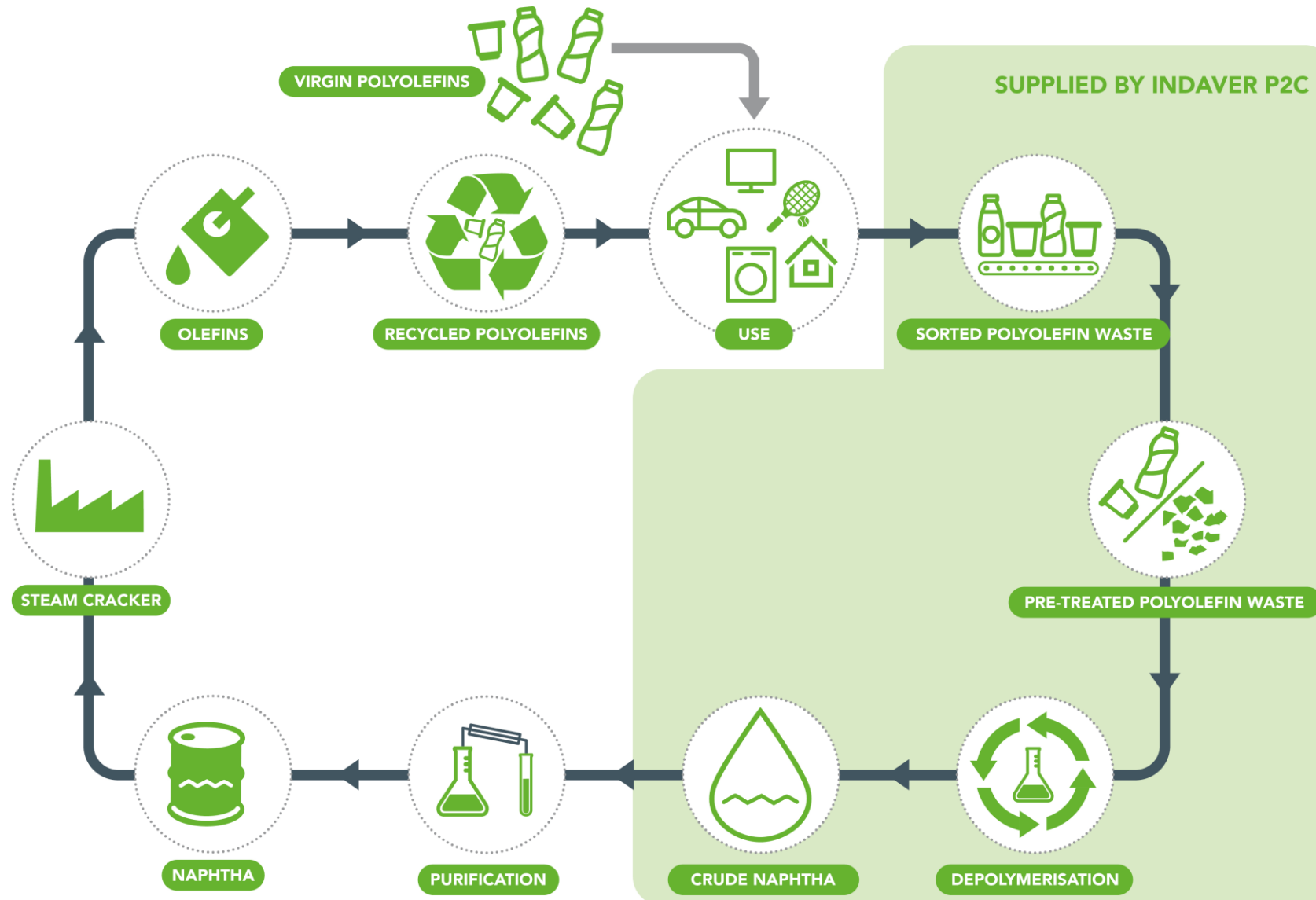
**CATALISTI**  
WE MEAN BUSINESS

*While **staying a frontrunner**, we will take the time **that is needed** for the next steps and stay conscious of the pitfalls*

## Closing the loop through thermal depolymerisation – PS



# Closing the loop through thermal depolymerisation – PO





# Pretreatment of the plastic waste in the new pretreatment installation of Indaver Willebroek



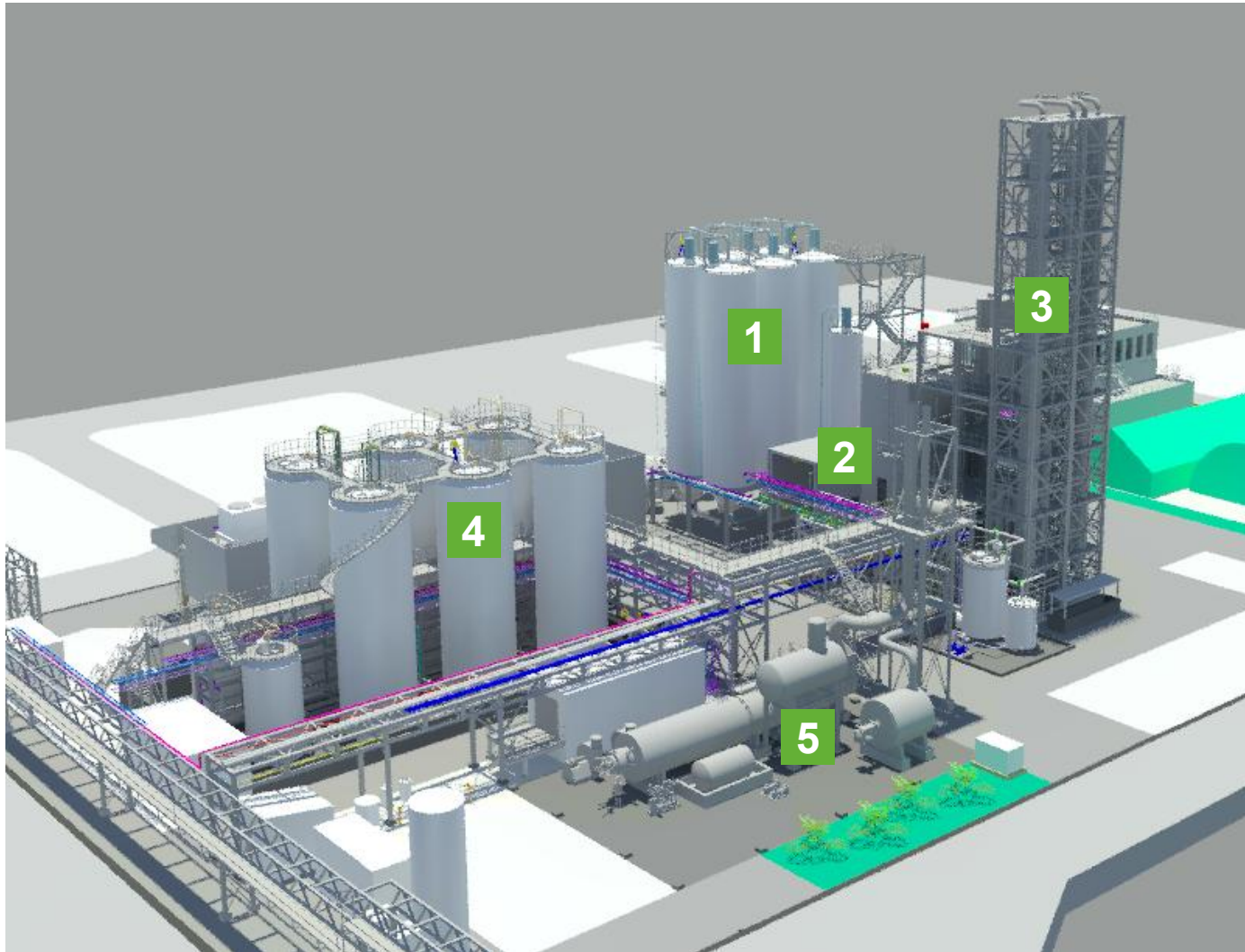
## Sorting plant for packaging waste

- 75000 ton packaging waste/year
- 16 fractions
- ~ 5 km of conveyor belt
- 50 sorting machines

## Granulation of the sorted plastics

- 2 lines: PO and PS
- Processed into granulates
- Granulates are washed and homogenized

## Chemical recovery by P2C



- 1 Unloading and storage granulates
- 2 Depolymerisation reactor and quench condensor
- 3 Distillation tower
- 4 Storage tanks for chemicals and loading place for trucks
- 5 Power plant producing energy for the installation

## Looking into the future

Chemical recycling: a threat or complement for WtE?

Increase in source  
segregation and presorting

Changing waste  
composition  
feedstock WtE?

Higher EU-recycling  
rates

Post-sorting still  
relevant?

2035

Is chemical recycling a gamechanger?



Indaver, leading the field in sustainable waste management

