

# SusChem 2017 Brokerage Event

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**A closed loop for the process chemicals in  
pharmaceutical, chemical and micro electronic  
industry**

De Neef Chemical Processing is a Belgian company (SME) specialized in the purification of used chemicals.

- Our mission is to purify chemicals so they can be used again for the same purpose as they were initially intended for.
- To do this we have more than 25 years experience and :
  - Own R&D department with all necessary analytical and pilot distillation equipment
  - Data from more than 3000 research reports about the purification of different waste streams from pharmaceutical, chemical and other industries
  - Different distillation columns ( batch-, continuous-, pressure swing-, azeotropic, extractive-, short path distillation )

## **Project: To purify the used solvents from pharmaceutical, chemical and micro electronic industry for reuse**

### **The problem**

Every year thousands of tons of used chemicals are incinerated and to be replaced by new virgin solvents.

This creates an huge amount of hazardous waste and consumes mountains of raw materials.

We assume the use of Solvents in the future will only be allowed if they will be purified for re-use

As the specifications for recycled chemicals are much stricter then the pure chemicals it's a big challenge to purify this solvents for reuse.

### **The solution**

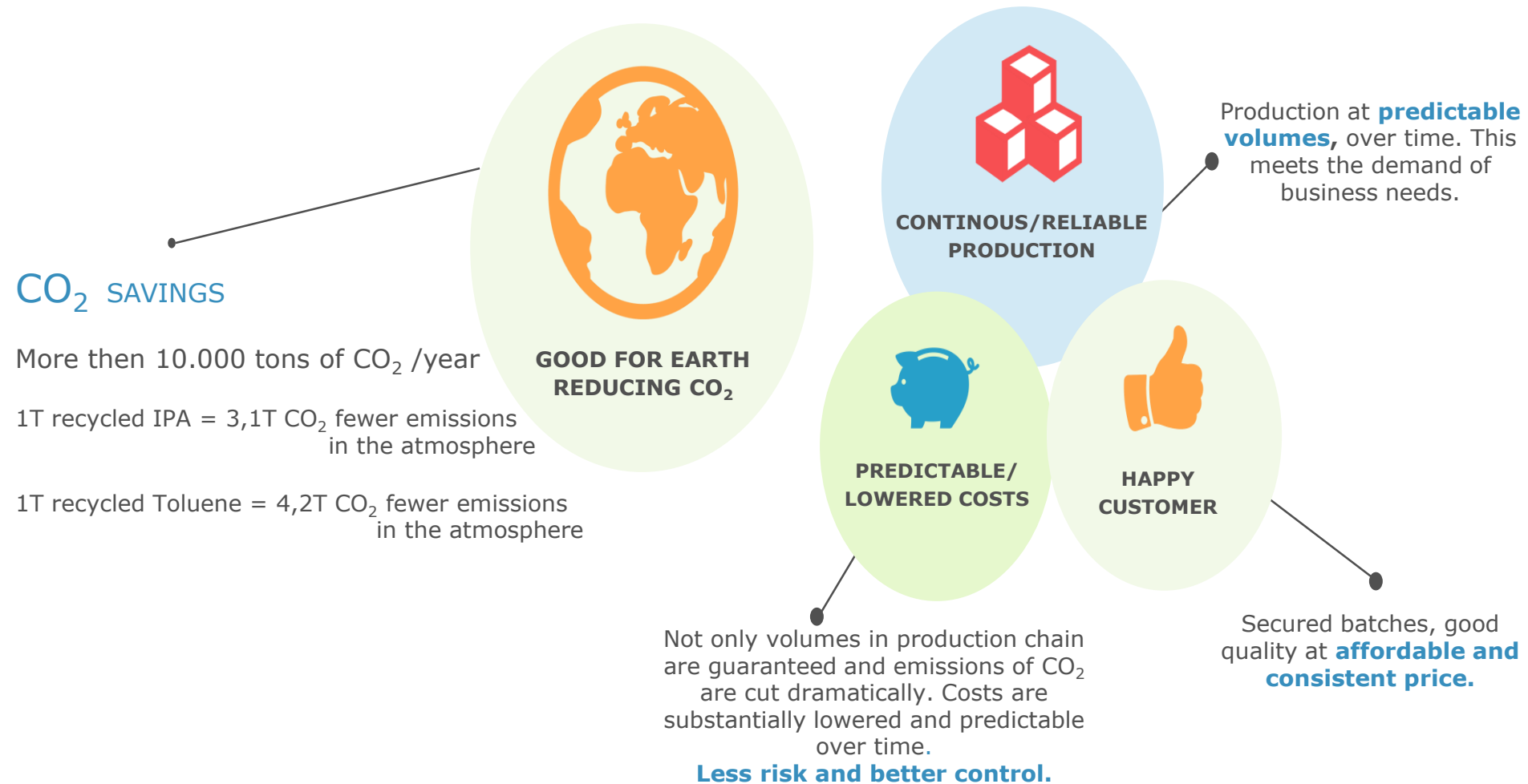
This year De Neef Chemical Processing started successful a unique sustainability project with Janssen Pharmaceutica to convert waste streams into pure solvents. It proves that even for the Pharmaceutical Industry ( purity at ppm level) it's possible to bring the production chemicals in a closed loop with a positive impact on the environment and benefits for the company.

With our experience, knowledge, installations and this reference our goal is to help other companies to reuse there chemicals.

Reusing the purified waste chemicals has a positive impact on the environment and gives important benefits at the company :

- Impact on the environment
  - Impressive reductions of CO<sub>2</sub> emissions ( 1 to 4 Ton CO<sub>2</sub> reduction per T purified solvent)
  - Less waste incinerated
  - Less raw materials consumed
- Benefit for the company
  - Economical benefit
  - Stable prices
  - Guaranteed product

## The IMPACT of Circular Economy



## LOOKING FOR PARTNERS

### **Companies using chemicals in their industrial process**

Based on our business model to purify chemicals in a closed loop, we are looking for companies who are interested to bring their production chemicals in a circular system.

### **Companies specialized in purification techniques**

As our main experience and knowledge is distillation, and for some projects this will be not enough, we are looking for companies specialized in other purification techniques to become our partner to find the best solutions for the industry to go circular.

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