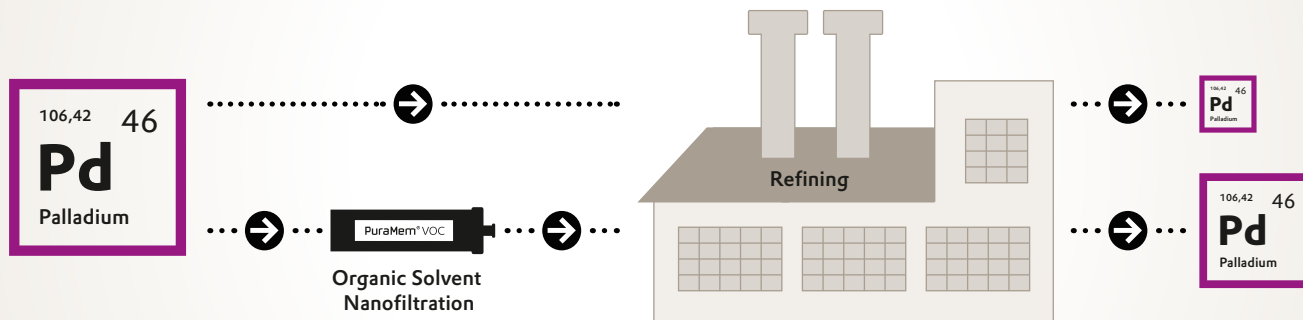


Next Generation Technologies: Homogeneous catalyst recovery

Recovering value with organic solvent nanofiltration (OSN)



OUR FOOTPRINT TARGET: By 2030, we will reduce our production waste by 10 percent.



Homogeneous catalyst recovery

SITUATION

- About 90 % of all commercially produced chemical products involve catalysts.
- Catalysts are a valuable tool for achieving sustainable practices.
- Reuse of particularly precious metal catalyst through catalyst recovery saves resources and costs.



COMPLICATION

- Homogeneous catalysts are soluble in the organic liquid waste and difficult to recover.
- A binding or sequestering agent is typically required before filtration.



SOLUTION

- Evonik has developed a process to recover palladium from homogenous catalyst complexes that are difficult to separate.
- This is done using organic solvent nanofiltration (OSN) with Evonik's own PuraMem® membrane filters.
- OSN can be used across diverse market sectors to save costs and resources.

LIFE AT HEART.

SYSTEMS IN MIND.

PARTNERS AT HAND.

