

Prossergy

Process for clean Energy



Our solutions

NOx treatment

Prossergy is a major company in NOx treatment solutions with over a hundred references in various applications and industries, using processes developed over many years :

- Non-catalytic reduction (SNCR), with reagent injection between 850 and 1050°C, treatment efficiency to 60%.
- Catalytic reduction (SCR), achieving efficiencies of 90% or more with the addition of a catalyst.
- Hybrid process combining the best of SNCR and SCR technologies, optimizing investment and operating costs.

PROSSERGY is a company specialized in the implementation of processes in air pollutant treatments and energy recovery.

From preliminary design to commissioning, including detailed studies and turnkey construction, we assist our clients in improving their environmental and energy performance.



Dust removal and acid gas treatment

For the treatment of acidic gases SO_x, HCl, and HF, we have developed dry/semi-dry processes, with or without recirculation and reactivation, using calcium or sodium sorbents.

- The addition of activated carbon or coke injection also enables to treat PCDD/F (dioxins and furans), Hg (mercury), and other metals.

Each solution is specifically designed based on client needs and installation characteristics, considering :

- The types of gases to be reduced and their respective concentrations.
- Required efficiencies.
- Sorbent costs.
- Residue elimination costs.
- Integration into the overall flue gas treatment and the unit thermal design (reaction temperature and energy consumption).

High-efficiency catalytic treatment

Custom-designed high-efficiency catalytic gas treatment processes for the most demanding applications, with efficiencies exceeding 99%.

Particularly suited for processes in the chemical and gas treatment sectors with highly concentrated streams, our solutions offer multi-gas treatments:

- NOx
- N2O
- VOCs
- NH3
- CO
- H2
- Dioxins
- ... etc.



Industrial water injection/ reuse

We offer solutions to recover industrial waste water on-site

- By injecting water into furnaces:
 - We increase flow rates and thermal loads.
 - We eliminate process water.
 - We reduce fouling in boilers.
 - We get gas cooled.

Chemicals storage and handling

We offer turnkey chemical liquid storage/handling units for various industrial applications :

- Urea/AdBlue
- Production of liquid solution from solid urea.
- Ammonia water.
- Oils / lubricants.
- Adjuvants/additives.



Our services

PROSSERGY offers a range of responsive services tailored to operators' needs to optimize and secure their flue gas treatment installations :

- Maintenance and spare parts.
- Expertise and troubleshooting.
- Catalyst management.
- Technical support and training.