

CO₂ capture systems

for Small &
Medium Industry



K2-CO₂'s team has a 20-year background in delivering turnkey industrial systems. We are based in Italy and in the USA. We have a worldwide working experience. We have deep knowledge of the flue gas coming from industrial furnaces, smelters as well as biomass and waste boilers.

We know how to ensure that product quality is not affected by flue gas processing.



**TOTAL COST
OF CAPTURE AND
STORAGE <3%
OF PRODUCTION
COSTS**



**ZERO EXTERNAL
HEAT & COLD
NEEDS**



**CO₂ CAPTURE
WITH 95%
EFFICIENCY**

K2-CO₂ is the turnkey provider of the first integrated system for emission compliance, heat recovery and CO₂ capture.

Designed and optimized for the Small & Medium Industry and Boilers.

Decarbonization in the hard-to-abate industry is the most discussed subject today. All of the solutions applied or tested so far have a direct effect on **product quality** and are strongly dependent on electricity, with hydrogen far from becoming a viable solution. Our solution aims to **avoid changes** to the manufacturing process and is adapted for both new plant and retrofitting of existing and running facilities.



Our **RULE #1** is: **no changes to the manufacturing process.** Moreover, our solution is adapted for both new plant and retrofitting of existing and running plants. The heart of our process is based on Hot Potassium Carbonate (HPC) CO₂ absorption, with consolidated know-how, that is a safe and non-volatile solvent.

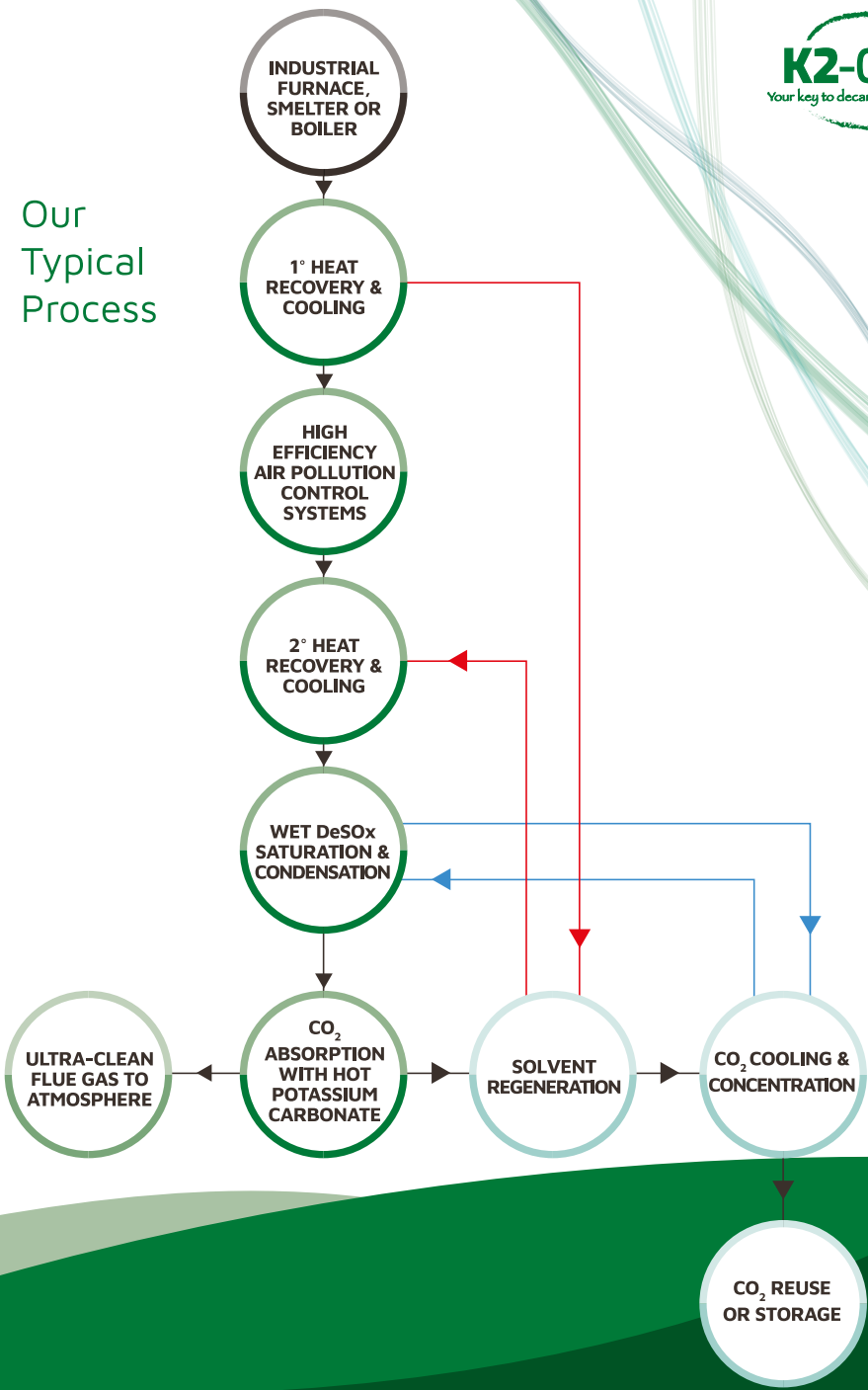
Our **RULE #2** is to **ensure continuous emission compliance** by integrating the most efficient and reliable pollution control system.

We follow our **RULE #3** by **integrating multiple stages of heat recovery and/or renewable energy production into the system**, conceived as a single process, minimizing consumptions, footprint and the external heating and cooling needs.

Carbon Capture for Industry and Boilers



Our
Typical
Process





Giammarco Technologies from Venice (Italy) is our licensor, exclusive for glass, for the HPC-based CO₂ capture process. Initially developed in the 50s, their technology has been applied more than 400 times worldwide.

Our
Partners



Industrious Global Technologies from Milan (Italy) is our partner for high efficiency Air Pollution Control solutions, with more than 10 years of experience.



Our Offer:

CO₂ CAPTURE

- ▶ Feasibility studies
- ▶ Key component delivery
- ▶ Turnkey systems with integrated:
 - heat recovery
 - flue gas treatment
 - CO₂ Capture
 - liquefaction and storage

DOBBY™ DEMO PLANT RENTAL

- ▶ 1-2 tpd of captured CO₂
- ▶ Mobile demonstration plant
- ▶ Designed with high flexibility and up to 95% capture efficiency
- ▶ Including full pre-treatment of flue gas

CAPTURED CO₂ MANAGEMENT

- ▶ Transportation, sequestration and reuse opportunity evaluations with our





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HEADQUARTER

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