



# CARBON CAPTURE SOLUTIONS PROVEN CARBON CAPTURE WITH AMINES

ANDRITZ is committed to environmental responsibility and the development of a cleaner, more sustainable future for present and future generations. For more than 15 years, ANDRITZ has been active in the field of flue gas decarbonization

in various industries such as cement, pulp & paper, waste to energy, iron and steel, as well as the maritime industry. We are dedicated to engineering and installing tailor-made carbon capture solutions that not only meet the highest quality standards

but are also designed to meet the specific needs of each customer. Together with our customers, ANDRITZ is stepping up its activities to apply technologies that effectively reduce carbon dioxide (CO<sub>2</sub>) emissions and thus mitigate climate change.

# Delivering End-to-End Amine Solutions

## ABOUT THE TECHNOLOGY

One of the most effective methods of capturing carbon dioxide (CO<sub>2</sub>) from industrial emissions is through the use of amine-based solvents. In this process, amines, a type of organic compound, chemically bind CO<sub>2</sub> and separate it from other gases before releasing it for storage or reuse. Amine-based carbon capture is a proven and adaptable solution that can be integrated into existing industrial plants.

## OPTIMIZING AMINE SELECTION

A variety of amines are used in carbon capture, each offering unique advantages depending on the application. Advanced amine blends combine different amines to optimize CO<sub>2</sub> absorption and reduce energy demands, ANDRITZ uses its own advanced amine blend to optimize CO<sub>2</sub> absorption while keeping energy costs low. The composition of this blend is customized to meet the needs of different industrial settings and is shared with the customer during project handover.

## ADVANCED CARBON CAPTURE SOLUTIONS

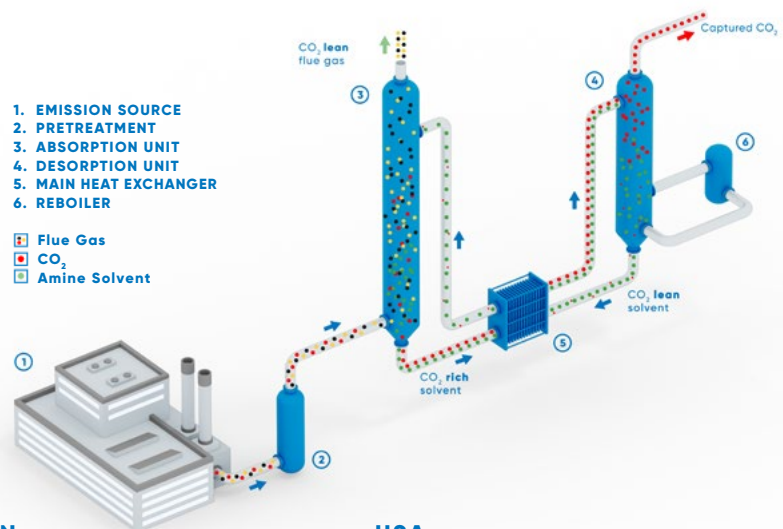
With cutting-edge technologies, ANDRITZ is a trusted partner recognized for its reliability and expertise, which is now applied to customized carbon capture solutions. Improving the energy efficiency of the technology, and thus reducing operating costs, is crucial for economic viability. Therefore, all of our solutions incorporate highly efficient and well-integrated energy cycles to find the optimal solution by leveraging energy synergies. Furthermore, downstream washing stages ensure that all secondary emissions are removed from the cleaned gas, enabling us to meet the highest environmental standards.

## SERVICE, SUPPORT, TRAINING

ANDRITZ is the supplier of choice for service work, spare parts, upgrades, and lifetime extension of your existing clean air technologies systems. This also applies to carbon capture plants, for which we offer long-term service contracts.

## KEY FEATURES OF THE ANDRITZ AMINE PROCESS:

- Offers from feasibility studies to complete EPC / turnkey projects
- Advanced in-house amine blends to reduce energy consumption
- 40+ years of experience
- CO<sub>2</sub> compression and/or liquefaction
- Heat recovery for district heating; heat pump integration for steam generation



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# ANDRITZ

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