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## Compact and Efficient $CO_2$ Capture with OASE® Technology

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### Abstract

In all industries like ammonia, blue hydrogen, natural gas processing, $CO_2$ capture unit is gaining more and more interest in meeting environmental and sustainability targets. BASF's OASE portfolio offers two optimized solutions for this challenge: OASE white, applied for pre-combustion $CO_2$ capture, and OASE blue, applied for post-combustion $CO_2$ capture.

OASE blue is specifically designed for low-pressure applications, delivering superior absorption kinetics that enable smaller circulation rates and a more compact unit design compared to conventional systems. This makes it ideal for retrofits and space-constrained installations. Even when air enrichment is used instead of pure oxygen, OASE blue maintains high performance, ensuring flexibility across different operating scenarios.

By combining proven gas treatment expertise with advanced formulations, OASE blue provides a sustainable pathway for reducing $CO_2$ emissions in natural gas processing. Its adaptability to post-combustion environments and compatibility with carbon capture and storage (CCS) strategies position it as a key enabler for decarbonization in the gas industry.