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BASFâ??s OASE Blue backs CCAT in carbon capture project at Taiwanese Power Plant

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BASF has entered into a license agreement with Carbon Cap Applications Technology Co. (CCAT) to supply its OASE blue gas treatment technology for a carbon capture and storage (CCS) project at the Taichung Power Plantâ??s Carbon Reduction Technology Park, operated by Taiwan Power Company (Taipower), the countryâ??s largest electricity provider.

This collaboration merges BASFâ??s proven flue gas treatment technology with CCATâ??s engineering expertise to support Taiwanâ??s first commercial CCS demonstration project. The pilot, launched in late 2023, aims to capture 2,000 tons of COâ?? annually in its initial phase. Pending successful results, Taipower plans to explore a large-scale facility targeting one million tons of COâ?? capture per year. Initially, the captured COâ?? will be sequestered onsite, with offshore geological storage under consideration for future phases.

OASE blue, developed by BASF, is a high-efficiency gas treatment technology used in carbon capture across various industries including fossil power, cement, and maritime sectors. It offers over 90 per cent COâ?? capture efficiency, low energy and amine consumption, and modular scalability, with potential to produce food-grade COâ?? purity.

Daniel Yao, Managing Director of CCAT, emphasized the projectâ??s significance in advancing sustainable energy in Taiwan: "Weâ??re honored to spearhead Taiwanâ??s first commercial carbon capture demonstration, and our collaboration with BASF will elevate the technical success of environmental initiatives. Together, we aim to provide Taipower with cleaner energy solutions."

Lawrence Loe, Director of OASE Gas Treating Excellence at BASF Asia Pacific, added:
"This project stands as a key reference for how OASE blue can help energy providers meet their CCS goals and accelerate

the shift toward low-carbon energy."

The CCS project is part of Taipowerâ??s broader strategy to phase out coal by transitioning to gas-fired generation while integrating advanced emissions reduction technologies.