

## BASF's OASE Blue backs CCAT in carbon capture project at Taiwanese Power Plant

16 May 2025 | News

### Pilot Plant at Taipower's Taichung Facility to Capture 2,000 Tons of CO<sub>2</sub> Annually in Initial Phase



### Pilot Plant at Taipower's Taichung Facility to Capture 2,000 Tons of CO<sub>2</sub> Annually in Initial Phase

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 Plant's Carbon Reduction Technology Park, operated by Taiwan Power Company (Taipower), the country's largest electricity provider.

This collaboration merges BASF's proven flue gas treatment technology with CCAT's engineering expertise to support Taiwan's first commercial CCS demonstration project. The pilot, launched in late 2023, aims to capture 2,000 tons of CO<sub>2</sub> annually in its initial phase. Pending successful results, Taipower plans to explore a large-scale facility targeting one million tons of CO<sub>2</sub> capture per year. Initially, the captured CO<sub>2</sub> 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 CO<sub>2</sub> capture efficiency, low energy and amine consumption, and modular scalability, with potential to produce food-grade CO<sub>2</sub> purity.

Daniel Yao, Managing Director of CCAT, emphasized the project's significance in advancing sustainable energy in Taiwan: "We're honored to spearhead Taiwan'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 Taipower's broader strategy to phase out coal by transitioning to gas-fired generation while integrating advanced emissions reduction technologies.