

Tata Chemicals Limited

Combating Carbon Emissions and Rising Carbon Prices



Northwich, United Kingdom | SOLUTION

In August 2021, the UK operations of Tata Chemicals successfully commissioned a carbon capture and utilisation plant (CCU). The plant captures CO₂ emitted from the gas-fired combined heat and power plant (CHP) at Winington, Northwich, United Kingdom.

As part of the process, the CO₂ is then purified to the requirements of the European Industrial Gases Association (EIGA) Food and Beverages Grade standards, and is subsequently used to manufacture high-purity, API-grade net-zero sodium bicarbonate.

The plant had achieved nearly 15 kilotonnes of CO₂ emissions reductions in FY 2021/22, and had demonstrated a proven capacity to reduce CHP's CO₂ emissions by 40,000 tonnes per annum (~11% of its total emissions).

The plant has benefited sodium bicarbonate business by securing CO₂ cost advantages and is specifically beneficial for businesses given the high volatility of the CO₂ market.