

Concerns over climate change have caused a global shift in attention to carbon dioxide (CO2) emissions. Consequently, many companies are committing to a neutral carbon footprint target. This often requires capturing CO2 from waste gases before they are vented to the atmosphere.

Our CATACARB process offers an efficient, reliable, and environmentally responsible method for capturing CO2 without modification to upstream technologies. CATACARB was first implemented in 1961. We now have over 60 years of

design and support experience solely focused on hot potassium carbonate (HPC) CO2 capture technology. It is because of our proven expertise in HPC that our clients depend on us for their CO2 removal needs. CATACARB_® has done one thing exclusively since 1961: HPC CO₂ capture.

Stockholm Exergi (above), one of the world's largest carbon capture projects, is a **CATACARB-licensed plant with** 800 KTA CO₂ capture capacity.

PRIORITIZING HEALTH & ENVIRONMENT

Both CATACARB and amine separation processes offer the benefit of treating gas with low CO2 content. However, the working solvents in amine separation units are volatile and tend to be harmful to the environment, as well as to the health and safety of plant personnel. The HPC solution, catalyzed by CATACARB 922, is non-volatile and does

not contain any harmful amine additives.

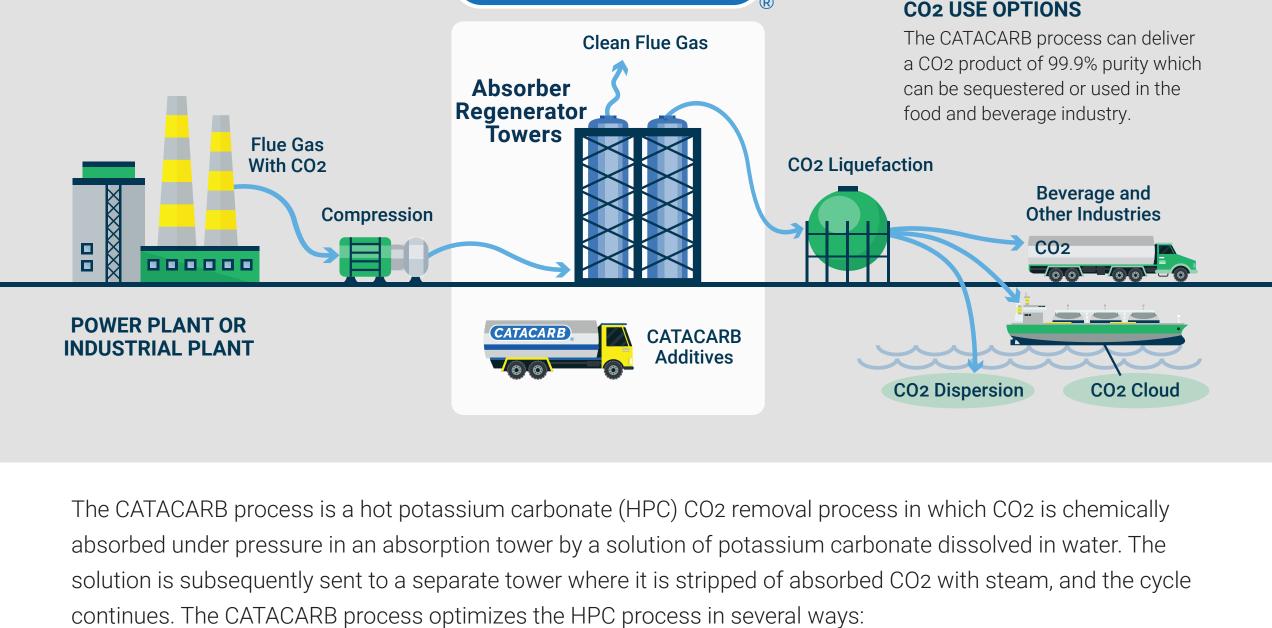
capture up to 44,000 **Kilotons of CO2 yearly.**

CATACARB_® units



(CATACARB)

OUR PROPRIETARY HPC PROCESS



CATACARB 922,™ our signature inorganic catalyst, increases CO2 stripping and absorption efficiencies by more than 40% while also providing corrosion protection. This lowers the energy demand and allows for the use of smaller equipment of mostly carbon steel construction, reducing capital costs. The catalyst is non-volatile, fully

the catalyst requires minimal makeup.

electrical demand.



Multiple configurations of the CATACARB process exist to fit client needs. In instances where the value of steam is high, mechanical vapor recompression configurations are available to replace up to 80% of heat input requirements with

High-purity CO₂ (99.9% by volume) can be obtained with minimal additional equipment.

compatible with oxygen-bearing gas, and is neither consumed nor degraded. Therefore,

This has allowed several CATACARB users to make CO2 a valuable process byproduct by selling the CO2 for use in the food and beverage industry.

The CATACARB® process can be configured such that 80% of CO2 stripping

energy requirements are filled by electrically-driven compressors.



Our proprietary simulation program is based on real-world operating data and gives us the confidence to design cost-effective CO2 removal systems with guaranteed results.

LEARN MORE

a CATACARB-licensed plant.

For more information on the CATACARB process and services, please visit <u>www.catacarb.com</u>.



Lotte Chemical in Daesan, South Korea,

