

# The Carbon-Free Press

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## Reducing Emissions in China's High-Growth Cement Sector with CO<sub>2</sub> Capture

*Authored by Jeff Allison, President, Delta CleanTech*

It is widely known that China is the world's largest emitter of CO<sub>2</sub>, responsible for nearly a third of total global emissions. What is less widely known is that China is also the global leader in cement production, manufacturing more than half of the world's cement supply. In 2020, the nation produced 2.2 billion metric tons of cement. This is driven by China's enormous construction sector as well as other projects in China and abroad.

Cement has been a key ingredient in China's rapid economic development, but it does come with an environmental cost. China's cement industry was responsible for the release of 858 million metric tons of CO<sub>2</sub> in 2020. China is also expected to be one of the nations that is hardest hit by climate change due rising sea levels and food instability.

It is clear that China will require the implementation of innovative technologies to meet its long-term emissions reduction goals, and the country has already begun significantly increasing its investment in green technology including carbon capture, utilization, and storage.

**Delta CleanTech** fully expects to be a leading factor in meeting those goals.



**Delta CleanTech** has developed a post-combustion carbon capture process with the ability to adapt to any flue gas condition including gas from cement, coal, steel, and petrochemical production. This is achieved by preconditioning the flue gas prior to CO<sub>2</sub> capture that can include: particulate removal, SOX/NOX reduction, solvent design, and flue gas cooling systems.

In addition to the improvements made to the CO<sub>2</sub> capture process, **Delta CleanTech** will also provide a patented advanced thermal reclaimer, **Delta Reclaimer**<sup>®</sup>, that solves previous thermal and non-thermal reclaimer problems, which in the past has proven to be the biggest challenge to successfully operating large-scale post combustion CO<sub>2</sub> capture.