

MHI Value Propositions 1095

Absorber to capture 99% of CO₂

- System is the first in the world to capture 99% of the CO₂
- The improvement in CO₂ capture has significant value not only for large power plants but also for small sources where 90% removal is not sufficient



MHI Now can Capture 99% of CO₂

- Description: KS-21™ enable the compound to absorb CO₂ more effectively than other solvents. It also degrades at a higher temperature than most solvents currently in use and it has a lower vapor pressure, resulting in reduced losses. This combination makes KS-21™ more efficient: Higher regeneration temperatures can be used to release the CO₂, and since the solvent resists thermal and vaporization losses, it doesn't need to be replenished as frequently.
- MHI is the first system supplier to obtain this very high 99% efficiency. This could lead to many value propositions beyond the large BECCS projects.
- The 4000 MW Drax plant will be the largest CO₂ capture installation in the world.
- The pipeline to the North sea will allow small plants along the route to capture CO₂ and discharge it into this pipeline
- With 99% CO₂ recovery small waste to energy plants can now justify CO₂ capture