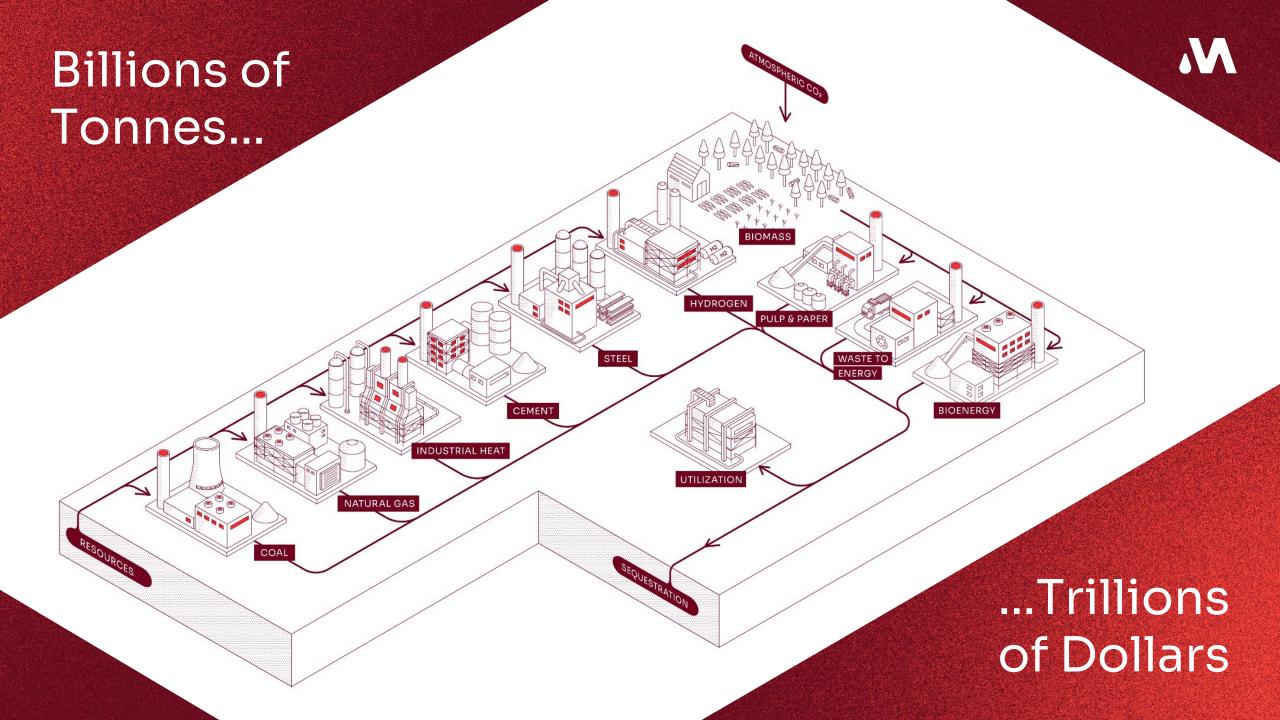
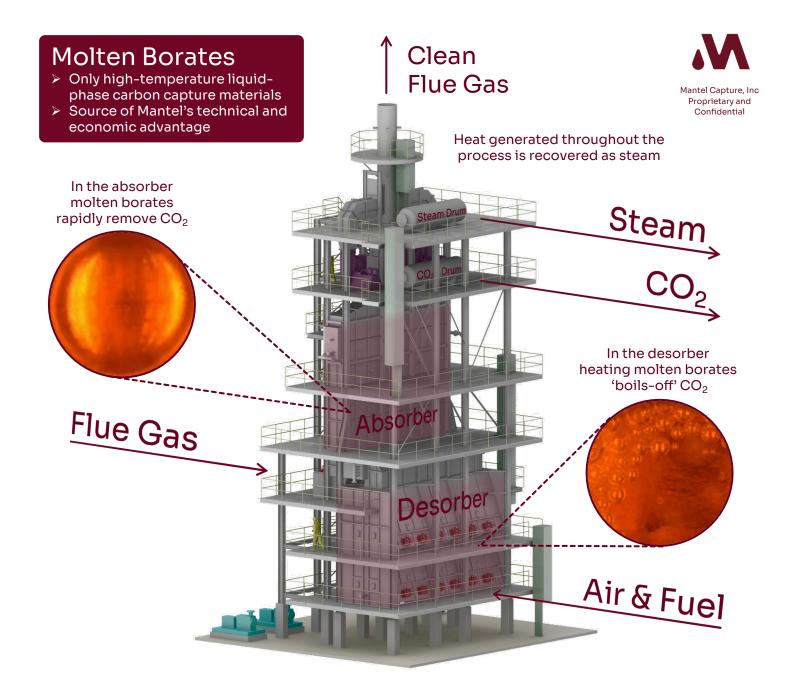
The material solution to carbon capture



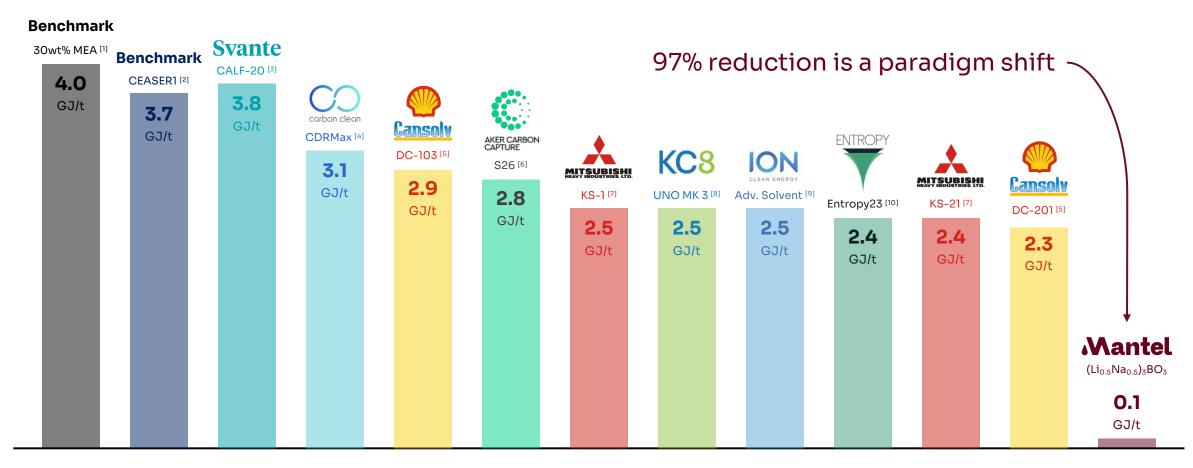


Mantel's system captures CO_2 and recovers energy as steam



Eliminating the thermal energy requirement for CO₂ capture changes everything





Notes: Net thermal energy requirements GJ per metric tonne of CO₂ captured, generally specific reboiler duty. [1] Brigman et al., 2014. Energy Procedia, 63, 6012 – 6022. [2] DECARBit, 2011. EBTF Report D1.4.3. [3] Freeman, 2021. DOE-NETL Presentation DE-FE0031944. [4] Bumb et al., 2017. Energy Procedia, 114, 1087 – 1099. [5] Cansolv, 2017. DOE Report. S0002-RDC201-D3-NCCC. [6] Gorset et al., 2014. Energy Procedia, 63, 6267 – 6280. [7] liljima et al., 2011. MHI Technical Review, 48. [8] Global CCS Institute, 2023. State of the Art CCS Technologies. [9] Brown et al., 2018. DOE-NETL DOE-ION-FE0013303. [10] Entropy, 2023. Corporate Presentation.

Demonstration project in construction – sited at paper mill in Quebec



74 projects in Mantel's commercial pipeline across a range of industries, including...





Notes: Actual feasibility studies; capacity in Mtpa (million tonnes CO₂ captured per annum); cost of capture and compression in USD (excludes transport and storage)

0.5 Mtpa 0.6 Mtpa \$47/t \$48/t

many more

The material solution to carbon capture

