

Technology factsheet: Competitiveness of clean energy technology – Carbon Capture, Utilization and Storage

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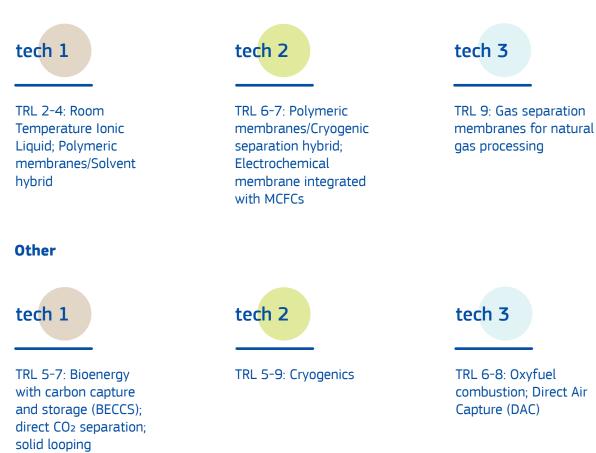
Key technologies

There are over 40 operational facilities, globally, capturing close to 50Mt per year. In most scenarios, some form of carbon capture is essential to meet climate targets.

Liquid solvent



Membrane



Key value chain figures

- **Global sector turnover:** EUR 2.7 billion (2020, and expected to increase to EUR 5.6 billion by 2027) of which EUR 1.05 billion in USA and EUR 92 million in EU.
- Global employment: 4000 (direct) of which 4 000 in USA and 200 in EU.



Key facts

Fact 1

CCUS can contribute to decarbonizing multiple industries, including power generation and industrial processes, by generating negative emissions. This makes CCUS a versatile technology for addressing climate change.





Fact 2

Although several CCUS technologies are commercially available, there is still uncertainty about the large-scale CCUS deployment, with many projects in the very early stages of development and some technologies being tested. Returns on investment are not yet certain and, in addition, the industry faces challenges of societal acceptance.

Fact 3

Newer technologies and upscaling are expected to reduce costs in time.



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