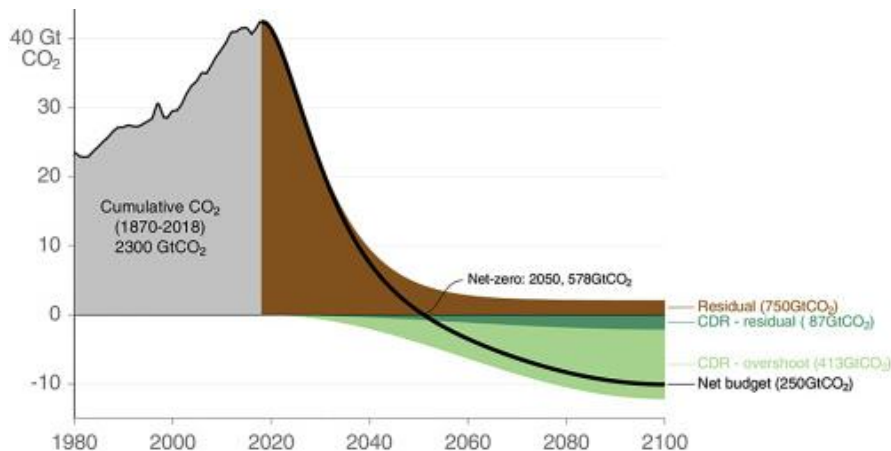


## What is CCUS?

Carbon capture, utilisation and storage (CCUS) is a cross-sector solution essential to mitigate carbon emission in many sectors, including power and industry. CO<sub>2</sub> is captured at a source of emission and either used to create valuable products (CCU) or to be stored (CCS).



Source: [https://twitter.com/Peters\\_Glen/status/1297102757439078402](https://twitter.com/Peters_Glen/status/1297102757439078402)

## Why invest in CCUS research?

### If you are a company

Gaining the future competitive edge. In some hard-to-abate sectors, CCUS is the cheapest carbon mitigation technology. Future pricing on CO<sub>2</sub> emissions is expected to grow fast in order to reach the Paris Agreement goals.

### If you are a government

CO<sub>2</sub> handling infrastructure like clusters could attract industries. GHG emission targets are per country. ECCSEL represent state-of-the art and can contribute to technology export in CCUS technologies.



## Why do we need CCUS?

CCUS is identified as a future key technology for reducing emissions from fossil fuels to be consistent with the goals of the Paris Agreement. In the so-called 'Emission Scenarios' which are consistent with the Paris Agreement, CCUS is needed in almost all of them to help:

- Reduce direct emissions from the burning of fossil fuels or from industrial processes, and
- Create negative emissions, such as in combination with bioenergy (BECCS)



## Why is CCUS not widely deployed?

CCUS is still an expensive technology, and deploying the technology still is not economically viable. Some costs can be reduced by economics of scale, while others require improved technologies. Further research and technological development is urgently needed if CCUS is to become a fully viable and cost-effective technology.

## See also

[Why ECCSEL?](#)

[Access ECCSEL](#)

[Join ECCSEL](#)

### References

<https://data.ene.iiasa.ac.at/iamc-1.5c-explorer/#/login?redirect=%2Fworkspaces>

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