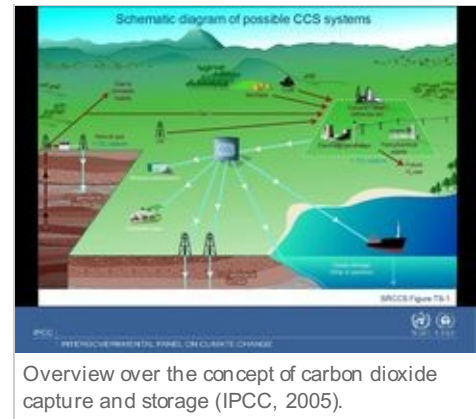


Carbon Dioxide Management in Swiss Power Generation (CARMA)

Scope of project

Carbon dioxide (CO₂) capture and storage (CCS) is a set of technologies for the capture of CO₂ from its anthropogenic point sources, its transport to a storage location or treatment plant, and its isolation from the atmosphere. This is only one, though very important, option in a portfolio of actions to fight the increase of atmospheric CO₂ concentration and to mitigate the greenhouse effect and climate change, while at the same time allowing for the continued use of fossil fuels.

Deployment of CCS technologies is expected to be limited in the next 5 to 10 years, but to provide a significant CO₂ sink in at best 20 years from now. Capture of CO₂ using existing separation techniques can be applied to large point sources, i.e. power plants or industrial plants; CO₂ can be easily transported over large distances using pipelines and ships; CO₂ storage can take place in geological formations, and by fixing it in mineral carbonates, the so-called mineral carbonation.



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