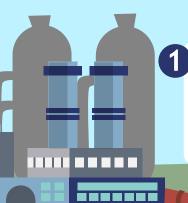
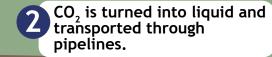
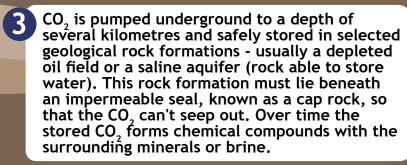


Fossil fuels are burned in power plants to generate electricity, and in other industrial processes. This produces carbon dioxide (CO<sub>2</sub>) a greenhouse gas which warms the atmosphere and contributes to anthropogenic climate change.



Instead of releasing these CO<sub>2</sub> emissions into the atmosphere, CCS technology can capture a large proportion of CO<sub>2</sub> produced in electricity generation and industrial processes.





## Carbon capture and storage

Carbon capture and storage (CCS) is a technology that removes carbon dioxide, CO<sub>2</sub>, from the atmosphere and stores it deep underground in rock formations. Implementing CCS rapidly and widely will help to reduce our increasing atmospheric CO<sub>2</sub> concentrations and help to mitigate dangerous levels of climate change. Geoscientists are needed to develop and implement CCS technology, and will therefore be crucial in meeting the UN Sustainable Development Goals.



Sensors are used to monitor the CO<sub>2</sub> to ensure that it is stored permanently.

CO<sub>2</sub> can be captured offshore and injected beneath the seabed in suitable rocks

Cap rock

Storage rock

