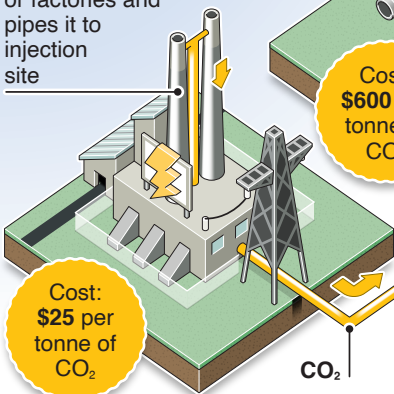


Turning greenhouse gas into rock

A tech startup is tackling climate change by turning carbon dioxide into rocks – permanently storing the greenhouse gas deep underground

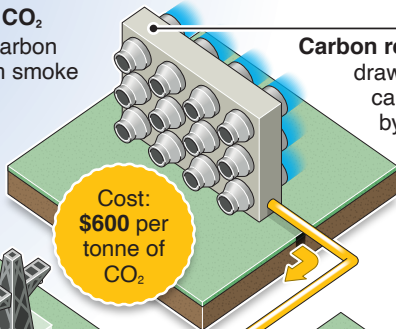
TWO WAYS TO EXTRACT CO₂

Carbon capture: Traps carbon dioxide (CO₂) directly from smoke stacks at power stations or factories and pipes it to injection site



Cost:
\$600 per
tonne of
CO₂

Carbon removal: Fans draw in air so CO₂ can be collected by filters. When full, filters are heated to 100°C, releasing CO₂ which is piped to injection site

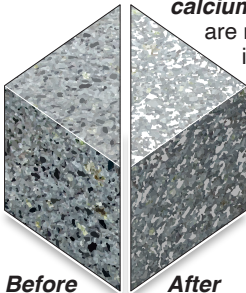


CO₂
charged
water

Injection site: Gas is mixed with water and pumped 800-2,000m underground

Natural mineralisation:

Carbonated water (*acidic*) reacts with **basalt** rock (*porous and full of cavities*). In under two years, elements such as **magnesium, calcium** and **iron** are released into water, combining with CO₂ to form carbonate minerals that fill up rock cavities



Before

After

