

Overview

Around 7-9 billion tonnes of CO₂ per year will need to be removed by mid-century from the atmosphere if the world is to meet the 1.5°C target. Dive deeper into the numbers behind carbon removal.

Carbon dioxide removal timeline



[Nine key takeaways about the 'state of CO2 removal' in](#)

From tree-planting to spreading silicate rock dust over land, the methods for "carbon dioxide removal" (CDR) vary in approach, impacts,

CARBON DIOXIDE REMOVAL

To tackle the world's climate crisis and achieve net-zero emissions by 2050, we need a dual strategy: we must significantly reduce the emissions going into the atmosphere and permanently remove



[The Vast Promise And Uncertain Future Of Carbon Removals](#)

As global emission reduction targets lag behind schedule, the pressure is mounting to actively remove planet-warming carbon dioxide from the atmosphere.

The state of carbon dioxide removal

Scaling up Carbon Dioxide Removal (CDR) is an urgent priority, as are efforts to rapidly reduce emissions, if we are to meet the temperature goal of the Paris Agreement.



[When we remove carbon dioxide from the atmosphere.](#)



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Carbon removal timeline

Depending on the partner capacity and removal method it may take anywhere from a few months to a year or two before starting the removal of your carbon dioxide.



When we remove carbon dioxide from the atmosphere, how long does it stay locked away? In theory, we can remove CO2 from the air for



Carbon Dioxide Removal

The National Academy of Sciences, in turn, has estimated that to meet the Paris Agreement goals, 10 gigatons of carbon dioxide will need to be removed



The State of Carbon Dioxide Removal

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[IPCC AR6 WGIII: CDR Factsheet Carbon Dioxide Removal](#)

Carbon Dioxide Removal Working Group III -

Mitigation of Climate Change ably store carbon dioxide (CO₂) from the atmosphere. CDR is required to achieve global and national target of net zero CO₂



[Carbon dioxide removal: NOAA State of the Science](#)

A fundamental challenge of CDR is achieving the enormous scale of required carbon removal on a suitably rapid timescale with minimal impact on

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