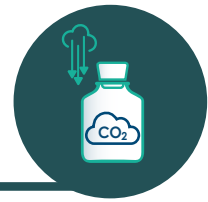


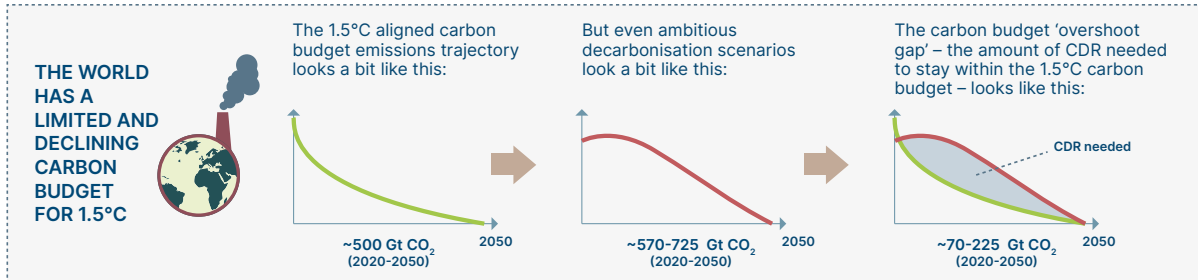


Energy
Transitions
Commission

MIND THE GAP: CARBON DIOXIDE REMOVAL (CDR)



CDR is needed in addition to deep and rapid decarbonisation

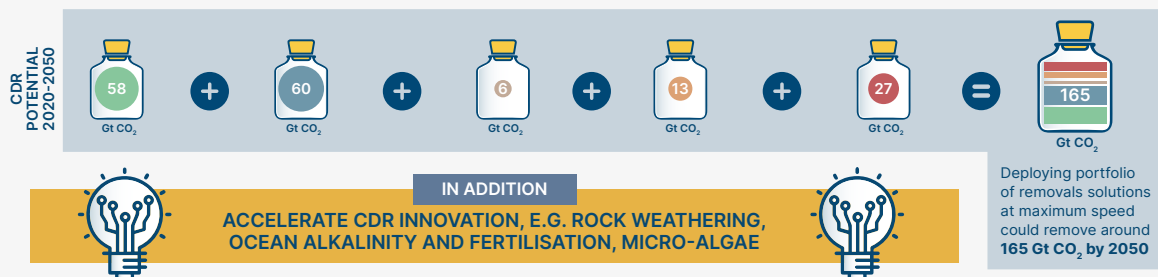


What will it take to scale CDR to keep 1.5°C alive?

A PORTFOLIO OF SOLUTIONS...

	NATURAL CLIMATE SOLUTIONS		HYBRID / BIOMASS WITH CARBON REMOVAL STORAGE		ENGINEERED SOLUTIONS	CO-BENEFITS*
						
	'RESTORE'	'MANAGE'	BIOCHAR	BECCS	DACCS	
WHAT?	Restore natural ecosystems (e.g. forests, peatlands)	Better manage current use of land	Burn biomass in absence of oxygen to slow decomposition	Produce energy from biomass then capture CO ₂ produced	Capture CO ₂ direct from air and store underground	
RISKS	Permanence: carbon stored in biosphere is short-term	Permanence: improved practices are not maintained	Feedstock: biomass feedstock not sourced sustainably	Feedstock: biomass feedstock not sourced sustainably	Moral Hazard, Clean power: insufficiently available	 Biodiversity  Clean water  Community economic return  Soil health  Fossil free energy generation  Skilled jobs
CO-BENEFITS*	  	   	 			

...SCALED RAPIDLY TO CUMULATIVELY REMOVE 165GT CO₂ BY 2050



Source: Energy Transitions Commission