

Carbon Avoidance to Carbon Removal

Travis Caddy, Evident Global 03/11/23

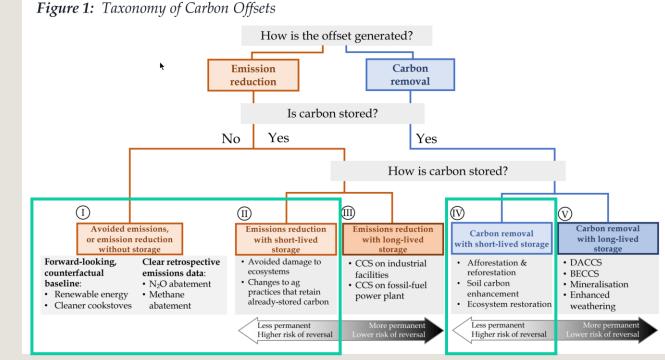


Carbon offsetting was born...



The Clean Development Mechanism (CDM) is operationalised, and multiple asset classes were created:

- Carbon Avoidance
- Carbon Reduction
- Short-term Carbon Removal



Oxford Offsetting Principles, 2020

The CDM collapses...



Perspectives, 2015

The Voluntary Carbon Market (VCM) took over, but has failed to deliver meaningful action...

The age of extinction Carbon offsetting

tion • This article is more than 9 months old

The age of extinction is supported by the guarchian Org About this content Patrick Greenfield *@gegeenfielddk Word 18.jan 2023 14.00 GMT

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Revealed: more than 90% of rainforest carbon offsets by biggest certifier are worthless, analysis shows

Investigation into Verra carbon standard finds most are 'phantom credits' and may worsen global heating • 'Nowhere else to go': Alto Mayo, Peru, at centre of conservation

row Greenwashing or a net zero necessity? Scientists on carbon

offsetting

Carbon offsets flawed but we are in a climate emergency



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Showcase project by the world's biggest carbon trader

actually resulted in more carbon emissions

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A REPORTER AT LARGE

THE GREAT CASH-FOR-CARBON HUSTLE

Offsetting has been hailed as a fix for runaway emissions and climate change—but the market's largest firm sold millions of credits for carbon reductions that weren't real.

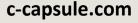
> By Heidi Blake October 16, 2023

Why?

The structural problem is simple: the business model of traditional offsets is **false equivalency**

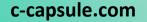


2003–2020: compensation through conventional carbon offsetting





Carbon Removal: A New Era for Carbon Markets?



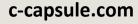


Net Zero is born...

We must balance residual emissions with removals



Paris Agreement, COP21



"Can't we just plant more trees?"



Zonguldak City Forest in Fall

High Risk of Reversal

Increasingly susceptible to:

- Wildfire
- Disease
- Humans

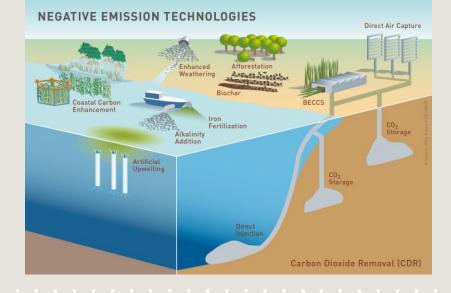
Also, requires lots of land

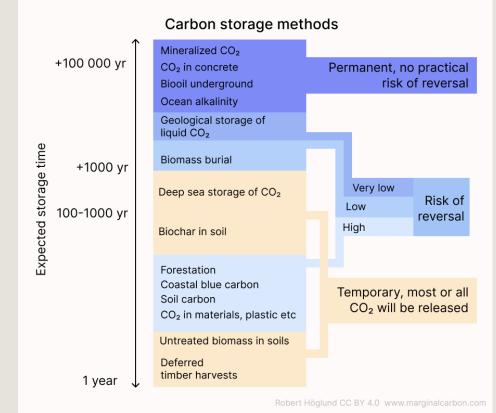


Wildfires in Çanakkale, 2023

Durable Carbon Dioxide Removal (CDR)

All carbon removal is equal, but some are more equal than others



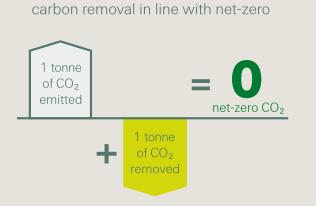


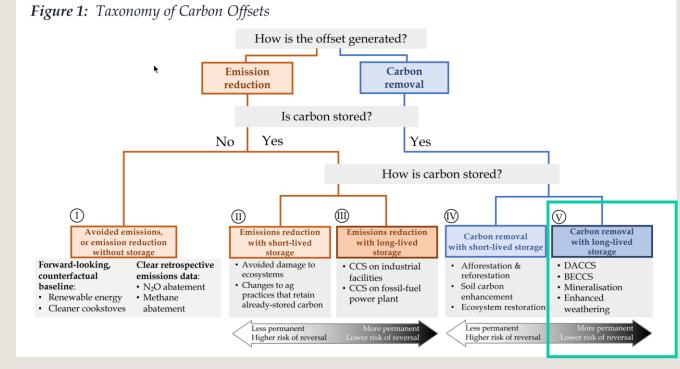
Robert Hoglund, Medium

Benefits

- No baselines
- High additionality
- High environmental integrity

Post 2020: compensation through

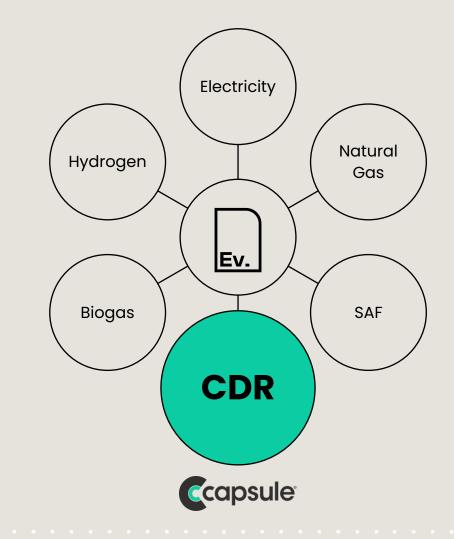




Oxford Offsetting Principles, 2020

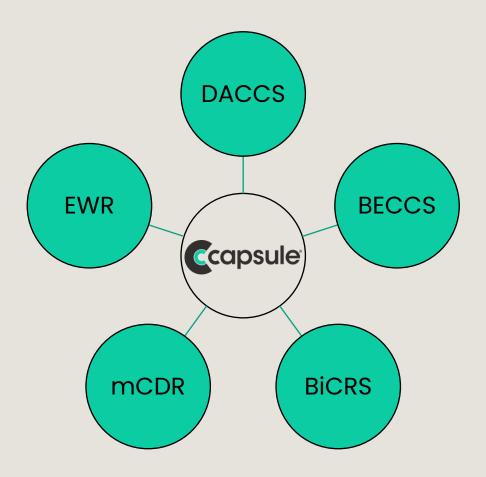
Product Multiverse

- Paving the way for a fully certified Clean Economy
- Providing a **centralised registry** for all types of tradeable environmental assets
- Evident's vision is that all activities within the global Clean Economy, from materials to energy, are independently certified



No Net Zero Without CDR

- Evident co-founded C-Capsule in **2021** to certify durable CDR
- Supporting emergent methodologies for CO₂ removal for at least 100 years
- In December 2022, C-Capsule gained preliminary Accreditation to the International Attribute Tracking Standard



How much Durable CDR is needed?

According to the IPCC (Intergovernmental Panel on Climate Change), we'll need to remove **10 gigatons/yr** of CO₂ from the atmosphere by 2050.



...we're 0.0481% there.

2023 Outlook

- 0.5% of SBTi signatories have • bought durable CDR
- 4.8m tonnes CO2 purchased ullet
- 2.4% delivered •

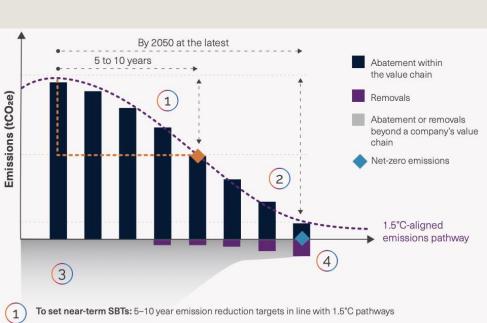
 Shopify Stripe
Frontier
Meta Alphabet J.P.Morgan







Mitsui O.S.K. Lines



To set near-term SBTs: 5-10 year emission reduction targets in line with 1.5°C pathways

To set long-term SBTs: Target to reduce emissions to a residual level in line with 1.5°C scenarios by no later than 2050

- 3 Beyond value chain mitigation: In the transition to net-zero, companies should take action to mitigate emissions beyond their value chains. For example, purchasing high-guality, jurisdictional REDD+ credits or investing in direct air capture (DAC) and geologic storage
- Neutralization of residual emissions: GHGs released into the atmosphere when the company has achieved 4 their long-term SBT must be counterbalanced through the permanent removal and storage of carbon from the atmosphere.

SBTi Net Zero Standard

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Need Compliance Markets

Primary driver of CDR will be compliance:

- i) High cost makes voluntary action less likely
- ii) Large scale of markets
- iii) Government Net Zero Ambitions

Market acceptance through government recognition



EU CRCF



