

Most companies fail to define ambitious reduction targets, study finds

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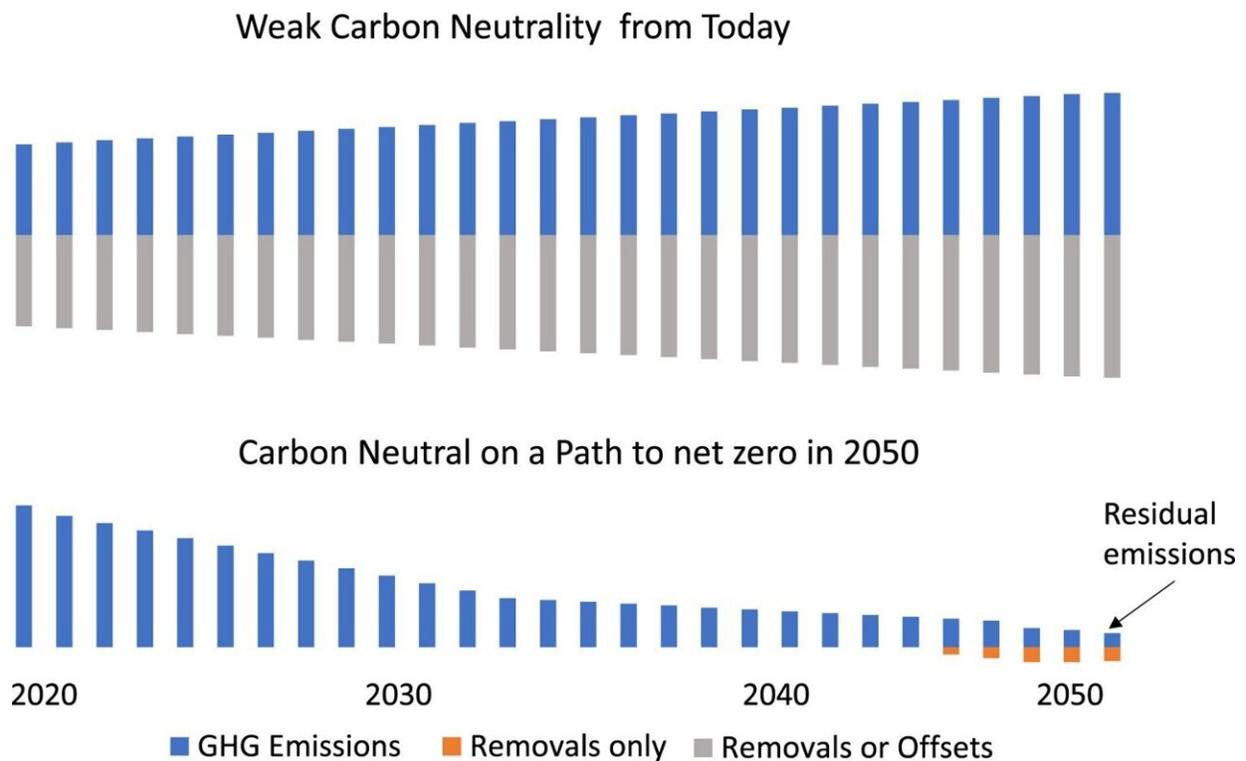


Illustration of the difference between weak carbon neutrality (upper graph) and a company on the path to net zero in 2050 (lower graph) in which emissions are reduced to a residual level and offset exclusively with carbon removal credits, adapted and modified from (SBTi, Citation2021). Credit: *Climate Policy* (2024). DOI: 10.1080/14693062.2024.2358989

A study from the University of Twente has revealed insights into the

corporate world's approach to achieving net-zero emissions. The findings are [published](#) in the journal *Climate Policy*.

Only 22% of the companies with a net-zero target are committed to reducing emissions to a residual level and compensating with removals. "Companies like Meta use residual carbon emissions in their plans without defining correctly what that means," says UT researcher Rosalie Arendt.

Residual carbon emissions are the "unavoidable" emissions that remain after all possible actions have been taken. These emissions should be neutralized by removing the equivalent emissions from the atmosphere. Which emissions are considered unavoidable is now largely determined by corporations and [technical experts](#), but it should be subject to [political debate](#) according to Rosalie Arendt, a researcher at the Faculty of Engineering Technology.

Assessing net-zero pledges

"Take the construction of houses, for example. It is technically possible to build a house out of wood, clay or natural stone. These are less CO₂-intensive than cement and steel. Moreover, are the houses that are being built fulfilling people's housing needs?" asks Arendt.

In her paper, she analyzed the climate pledges of 115 large companies and found that only 69 had a net-zero target. Only 22% of these companies are actually committed to reducing emissions to a residual level and compensating with removals. In total, 28 companies provide a quantification of their residual emissions.

"Interestingly enough, sectors in which emissions are not unavoidable in general claim the most residual emissions," says Arendt. IT [corporations](#) such as Microsoft, Tencent and Alphabet (Google), report having higher

residual emissions on average, while they are not classified as hard-to-abate.

In her paper, Arendt calls for a [collaborative approach](#) to defining residual [emissions](#), urging the involvement of governments and civil society actors in participatory processes at both national and international levels. This inclusive strategy aims to ensure "fair contributions" towards the global climate effort, particularly in addressing the needs of the most vulnerable populations.

More information: Rosalie Arendt, Residual carbon emissions in companies' climate pledges: who has to reduce and who gets to remove?, *Climate Policy* (2024). [DOI: 10.1080/14693062.2024.2358989](https://doi.org/10.1080/14693062.2024.2358989)

Provided by University of Twente

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