

THE BIGGER PICTURE

“Is the world a better place because your company is in it?”

This is a question our founders Dr. Hansjörg Lerchenmüller, Dr. Hannes Junginger-Gestrich, Andreas Hölzl und Matthias Ansorge asked themselves from the get-go. The answer had to be “yes”.

Our shared challenge:

To preserve the world as we know it, the international scientific community as well as governments and heads of state have agreed that the Paris goal of keeping average global temperature rise to 1.5° above pre-industrial levels must be upheld. In order to meet this target of a net-zero future – our only future – not only countries but companies and organizations alike need to set science-based net-zero aligned emissions reductions targets. We must halve greenhouse gas emissions by 2030 and achieve net-zero emissions before 2050. Only then will we have achieved our 1.5° goal. The Science Based Targets initiative (SBTi), a coalition enabling companies and organizations to set emission reduction targets in line with leading climate science, has translated the scenarios underlying the IPCC Special Report into clear mitigation pathways. As the world’s first framework for corporate net-zero target setting, it has set the following key requirements:

- 1) **Focus on rapid, deep emission cuts:** Rapid, deep cuts to value-chain emissions covering scopes 1-3
- 2) **Set near- and long-term targets:** Make rapid emission cuts now, halve emissions by 2030, produce close to zero emissions and neutralize any residual emissions by 2050
- 3) **No net-zero claims until long-term targets are met:** Net zero is only reached when long-term targets have been achieved. Companies must use carbon removals to eliminate any residual emissions
- 4) **Go beyond the value chain:** Go further by additionally helping to mitigate climate change elsewhere

This will ask a still nascent market, of carbon removal capacity in the gigatonne range. To meet this global demand, the right steps need to be taken now. Carbonfuture allows companies to act on their net zero targets, follow the official SBTi mitigation hierarchy, and access the tools needed today, to meet requirements 2 and 3 tomorrow. Find out how below:

THE PART WE PLAY

Carbonfuture in a nutshell

WHY? OUR PURPOSE

We believe only real impact will save our planet - this means immediate, long-term and scalable climate action. We founded Carbonfuture as an answer to this challenge: trusted carbon removal solutions in the gigatonne range needed to reach our global climate goals.

HOW? OUR APPROACH

Our carbon removal service provides high-quality and impactful removal credits. Our marketplace brings together suppliers of climate services with businesses and organizations on a path to true net zero. Our fully digitized platform implements highest standards which let us trace every certificate issued - from credit-to-cradle, no double-counting. **One Carbonfuture credit is one tonne of CO₂ removed from the atmosphere. For centuries.**

WHAT? OUR PROOF

Long-term procurement portfolios or on-the-spot purchases via our CO₂ removal platform enable full flexibility of choice, corresponding to your individual needs. Our science-based approach guarantees solid climate action through conservatively quantified sink values and tamper-proof, digital credit tracking, based on a low-energy blockchain technology. Furthermore, all Carbonfuture credits are anonymously hosted on a public registry, ruling out multiple claims.

What's so special about?

YOUR CARBON REMOVAL

Let's get a bit nerdy. As we heard, net-zero is only possible with carbon removals, "negative emissions" or so-called "carbon sinks" / "c-sinks". However, not all removals are created equally. To deliver effective climate action in line with SBTi targets, the persistence of the carbon sinks you choose is crucial. Our current C-sinks rely on a nature-based approach called biochar. When used in agricultural soils, for example in the form of substrates, as an additive to compost or liquid manure, or via use as a feed additive, its carbon is stable for centuries. It can help increase yields, promote humus formation, increase the water holding capacity of soils and thus raise their resistance to drought, and reduce greenhouse gas emissions such as methane and nitrous oxide, as well as nitrate leaching.

Apart from its co-benefits, biochar also represents a particularly interesting removal approach, by being a permanent sink technology that is widely scientifically understood, accurately quantified, and already scaling today.

Guided by the latest science and the principles of transparency and trust, our modelling quantifies the permanence of biochar using conservatively calculated sink values. This means, we apply a decay rate of 0.3% per annum. The resulting sequestration curve, i.e. the graph showing us the amount of carbon that stays sequestered or stored over time, lets us account for a sink duration of 100 years. In reality, biochar in soil is very likely to be more stable (have a lower decay rate), we simply decide to be more honest about what we can account for. We want to maximize our climate impact, not our profits: **Carbon removal you can trust.**

YOUR CREDITS

First things first: We want to build a carbon market that is large, transparent, verifiable, and economically robust. This means, we are strict about documentation, setting a standard for the whole emerging industry. From the ground up, we offer only science-based credits that are third-party verified, according to independent norms. All Carbonfuture credits are issued under the [EBC-sink](#) standard, which is currently the most rigorous standard available for C-sinks based on carbon preserving applications of biochar. This standard ensures that the C-sink credits are:

- **Real**, as all sinks have effectively been established before the respective credits are sold
- **Measurable** according to the scientific standards set by EBC-sink
- **Permanent** by at least 100 years, any potential leakage or shorter duration is being compensated by binding more carbon at inception, such that 100 ton years per credit is guaranteed
- **Additional**, as the alternative scenario for the use of the biomass is usually the full thermic use as renewable energy, i.e., the assumed baseline is zero; financial additionality is given as scaling of the biochar industry is heavily dependent on price reductions, for which financing through C-sink credits are key
- **Independently verified** according to the EBC-sink standard
- **Unique**, as both producer and user of the biochar must commit to not claiming the climate benefit elsewhere

YOUR PLATFORM AND REGISTRY

The Carbonfuture platform allows us to serve the entire carbon removal value chain. Here, we bring together suppliers of vital climate services with companies and organizations wishing to neutralize their emissions through the purchase of carbon removal credits. True to our science-based and transparent approach, the registry Carbonfuture uses is based on blockchain technology. The credits get anonymized and hosted on this public registry,

ruling out multiple claims, thereby counteracting the wide-spread problem of so-called “double-counting”. Not only does this approach allow us to ground our credits on tamper-proof, digital tracking but its energy need is by a factor of millions lower as e.g., a public blockchain-based framework like Ethereum.

By combining tracking, credit management and registry into one, we consider the entire life cycle of our certificates. Full custody of our value chain – from production to final carbon-preserving application – lets us offer a unique credit-to-cradle look-through. This in turn has an effect on our certificates, making them auditable, transparent and easy to integrate into reportings and marketing activities.

In keeping with our mission of providing climate impact in the gigatonne range, our unique approach allows us to host all types of sink removals, making us a single access point for multiple negative emission technologies.

YOUR TEAM

Thrilled by the fascinating potential of biochar and driven by the commitment to effectively fight the climate crisis, we threw in all our energy and expertise to create a platform for tracking and financing true carbon sinks. The real deal. No Greenwashing. Our mission: to empower people and organizations to mitigate the climate crisis by removing CO₂ from the atmosphere. In order to reverse the flow of greenhouse gases – down and not up – we strive to reverse the flow of money: reward carbon sinks instead of polluters. This is the basis of the carbon sink economy.

Founded in 2020 by Dr. Hannes Junginger, Dr. Matthias Ansorge, Andreas Hölzl and Hansjörg Lerchenmüller, the combined expertise in the areas of finance and risk management, IT and product development, management and entrepreneurship combined with the right amount of passion for the planet, form the ideal basis for turning Carbonfuture's vision into reality. We continue to grow our mission of providing impactful climate action by welcoming, dedicated and purpose-driven people to our team. Tonne by tonne, we strive to **provide carbon removal you can trust.**

Join climate pioneers who have already put their trust in us:

South Pole. Turning up the heat on climate commitments

Leading project developer and global climate solutions provider South Pole partner up with Carbonfuture to continue delivering high-quality carbon removal, moving corporate net zero commitments towards net zero action. The joint effort provides businesses with the opportunity to diversify their climate mitigation portfolios with certified projects.

„As more companies seek to invest in carbon removals, the need for credible solutions and transparent impact data such as provided by Carbonfuture becomes more crucial than ever.“

Michael Weber, Director of Corporate Climate Neutrality at South Pole

Klarna. Becoming part of the solution

As part of their commitment to operate at net zero by 2040, **Klarna** chooses Carbonfuture to help realize their carbon removal targets.

“We have shifted our focus to supporting a variety of projects, including those which actively remove carbon emissions. Making sure our climate action is truly effective remains top priority. With Carbonfuture's science-based approach, all removal credits issued as part of our joint efforts are traceable, delivering that vital element of transparency and trust.“

Janeke Kose, Sustainability at Klarna

Milkywire. Climate impact beyond offsetting claims

As part of the launch of their first climate transformation portfolio, impact platform Milkywire chooses Carbonfuture as credit provider to help deliver impact instead of claims.

„Leading a race to the bottom to find the cheapest acceptable credits possible, just in order to make a claim will help no one. Working with Carbonfuture reflects our values of credible and impactful climate action by guaranteeing fully traceable certificates and defensibly quantified sink values.“

Robert Höglund, Climate advisor at Milkywire



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