



PYREG launches climate finance solution to accelerate biochar carbon removal, generating over four million carbon credits by 2040

- *PYREG Climate Finance Solutions (PCFS) is a first-of-its-kind solution providing corporate buyers with high-quality biochar carbon removal (BCR) credits while accelerating the deployment of PYREG's carbonization systems in the agricultural sector.*
- *PCFS will enable agricultural businesses to pay a significantly reduced price for PYREG's carbonization systems, kickstarting their biochar production business and allowing PYREG to sell the resulting verifiable and additional BCR credits generated from biochar production.*
- *PYREG plans to build up to 150 biochar production systems by 2040 through PCFS with the capability of removing up to 500,000 tons of carbon from the atmosphere each year. In total, these systems will enable over four million BCR credits, generated until 2040 and delivered until 2050.*
- *PYREG is working with global carbon insurance specialist Kita to deliver carbon insurance as part of PCFS, providing much-needed confidence to corporate BCR buyers.*
- *To ensure transparent and efficient monitoring, reporting, and verification, PYREG fully integrates with Carbonfuture's MRV+ system. Additionally, the biochar from PYREG's carbonization systems meets the stringent eligibility requirements set by the Puro Standard for CO₂ Removal Certificates.*

Dörth, 22nd November 2023

PYREG, a German net zero tech company and market leader in biochar carbon removal systems, has launched a first-of-its-kind solution coupling corporate buyers with biochar carbon removal (BCR) credits produced by its carbonization systems. PYREG Climate Finance Solutions (PCFS) will accelerate the deployment of the company's technology in the agriculture sector, with PYREG receiving the BCR credits generated from biochar production in exchange for a significant reduction on the upfront cost of its technology. The launch of PCFS will enable more agricultural businesses to unlock the benefits of biochar production, including waste reduction, soil improvement and renewable energy production.

Through PCFS, corporates can take measurable steps towards achieving their net zero targets while simultaneously supporting the acceleration of biochar production worldwide. A pre-purchase of certified BCR credits lowers investment hurdles for businesses, particularly farmers and growers, wishing to utilize the PYREG systems to reduce waste and support sustainable agriculture. When fully operational, PCFS will significantly contribute to meeting the world's carbon removal targets necessary to reach the goals of the Paris Agreement.

PYREG's high-tech carbonization systems – over 50 of which have been deployed globally – have gained industry recognition for their ability to produce high-quality biochar that meets the stringent eligibility requirements set by the Puro Standard for CO₂ Removal Certificates.



The modular and scalable carbonization systems enable PYREG's customers to convert their organic waste into valuable biochar while simultaneously producing renewable energy. The company's systems can process a myriad of residues into high-quality, climate-protecting biochar. This waste-to-value process drives a sustainable circular economy supported by BCR credits.

As part of PCFS, PYREG is working with Kita to structure a carbon insurance product, insuring purchasers of the BCR credits from the risk of under-delivery. Kita's main insurance product, Carbon Purchase Protection Cover, will be implemented as part of PCFS' risk mitigation framework. Insurance provides confidence for prospective buyers of carbon credits, enabling them to green light investment in impactful carbon dioxide removal (CDR) projects, which have the potential to meet decarbonization objectives. By offering additional levels of due diligence and quality assessment, PYREG's inclusion of Kita's insurance will help channel investment capital towards PCFS. To ensure transparent and efficient monitoring, reporting, and verification, PYREG also fully integrates with Carbonfuture's MRV+ system. The system includes an advanced sensor setup for facility-level monitoring and enhanced downstream carbon tracking.

"The transition to net zero is well underway but far from fast enough. The good news is that proven solutions are available and waiting to be deployed more widely. Our PYREG systems can be installed quickly to further exploit the CO₂-removal potential. The whole PYREG team has done a fantastic job in developing our new finance solution, which will enable us to significantly scale the deployment of our technology and help mitigate the worst impacts of climate change."

- Jörg zu Dohna, CEO, PYREG

Biochar is considered one of the most impactful CDR methods in terms of the United Nations Sustainable Development Goals. If produced under the right conditions, it removes carbon from the atmosphere for thousands of years. As an agronomic soil conditioner, biochar improves soil fertility, reduces soil contaminants and improves water retention, making it a versatile climate mitigation and adaptation solution. PYREG's ultra-low emission carbonization technology also produces renewable heat, which can be fed into local heating networks as green heat or used to generate renewable electricity at production sites. PYREG systems are a key solution for businesses obliged to substitute fossil energies and to become self-sufficient in their energy needs. Compared to other durable CDR solutions, biochar achieves an excellent environmental, social, and corporate governance rating. Biochar offers many benefits in sustainable agriculture, waste treatment and renewable energy production while simultaneously tackling climate change.

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About PYREG

PYREG GmbH is a German net-zero tech company pioneer in Biochar Carbon Removal (BCR). The company carbonizes organic waste, such as biomass or sewage sludge, into CO₂-sequestering biochar while generating renewable energy. The industry-leading machine manufacturer was founded in 2009 as a university spin-off and operates globally from Dörth, Germany, and Maine, US.

With its modular high-tech systems, the company offers a proven, scalable, and cost-effective solution for safely and permanently binding CO₂ in the form of beneficial biochar. PYREG technology is patented and certified by the European Biochar Certificate. In 2022, PYREG was named the First Technology Partner recognized by Puro.Earth, the world's leading crediting platform for carbon removal.

PYREG has commissioned 50+ systems worldwide and continues to be the European market leader.

For more information, visit www.pyreg.com and follow PYREG on LinkedIn: <https://www.linkedin.com/company/pyreg-gmbh/>.