

Climeworks becomes world's first direct air capture company certified under the Puro Standard

- Climeworks is the first direct air capture company worldwide to achieve certification of its carbon dioxide removal activities under the Puro Standard for its Orca plant in Iceland, operational since 2021.
- The Puro Standard is the first comprehensive standard for engineered carbon removal methods in the voluntary carbon market. It sets quality requirements for solutions such as direct air capture and mineral storage and records the lifecycle of CO₂ Removal Certificates from issuance to retirement in a public registry.
- The certification by an internationally recognized standards body is an important step toward standardization of the carbon removal industry, solidifying transparency and trust in the voluntary carbon market.



From left: Louis Uzor, Lead Standards & Certification at Climeworks; Martin Voigt, Head of MRV at Carbfix; Ali Daoud, Consultant at DNV; and Marianne Tikkanen, co-founder and Head of Standard at Puro.earth, at Climeworks' Orca plant in Iceland.

Zurich, 23 May 2024 – Climeworks, the global leader in carbon removal via direct air capture technology, successfully achieved third-party certification of its carbon removal activities under the Puro Standard – a first in the direct air capture industry. In collaboration with CO₂ storage and mineralization partner Carbfix, the Puro Standard methodology for Geologically Stored Carbon was applied to the removal activities at Climeworks' Orca facility, the world's first commercial direct air capture and storage plant in operation.

Climeworks Co-founder and Co-CEO Jan Wurzbacher says: “We are on a mission to climate impact at scale with the goal of achieving gigaton carbon removal capacity by 2050. A prerequisite for such a steep scale-up is a strong foundation of trust among investors, customers, suppliers, and partners. Climeworks is proud to be at the forefront of this and sets a new precedent of integrity: third-party certification of our carbon removal activities under the Puro Standard.”

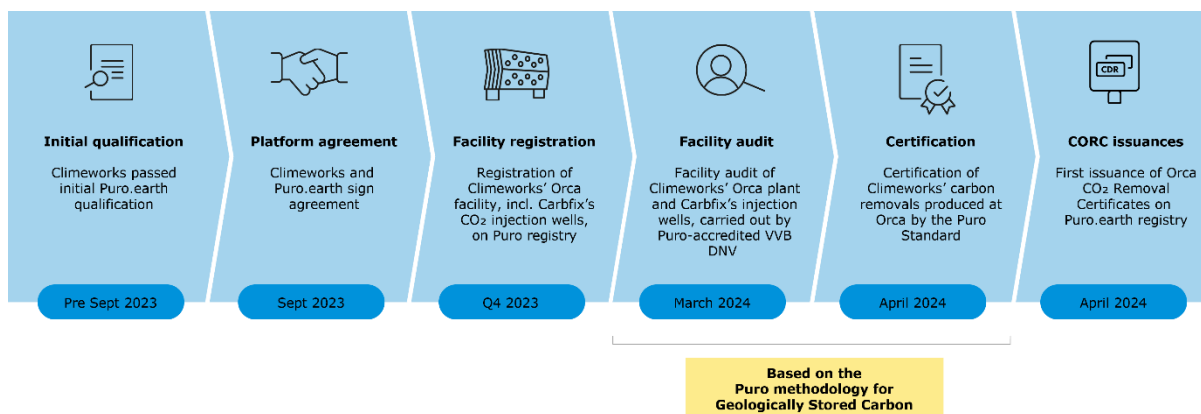
Setting the benchmark for transparency and trust in carbon removal

Certification under the Puro Standard affirms the integrity of Climeworks’ carbon removal process and validates that the company produced net removals that fulfill a stringent set of quality criteria, such as additionality and high durability. For traceability and transparency, and to avoid double counting, the removals certified under the Puro Standard are issued in the public Puro Registry, where their complete lifecycle is recorded from issuance to retirement. Eve Tamme, Managing Director at Climate Principles says: “Climeworks is a leading voice in the carbon removal space, advocating for and acting on stringent standards for an effective carbon removal market. A market better aligned with initiatives pushing for higher quality, such as the Integrity Council for the Voluntary Carbon Market and the Voluntary Carbon Markets Integrity Initiative. I hope to see more carbon removal project developers following in this direction.”

How it works: certifying under the Puro Standard

Certification under the Puro Standard involves the third-party auditing of Climeworks’ direct air capture process as well as Carbfix’s CO₂ mineralization by an accredited entity: at Orca, Puro-accredited validation and verification body DNV verifies that Climeworks’ carbon removals were performed according to the Puro methodology, fulfilling a stringent set of quality criteria. Once independently verified, Puro.earth certifies the batch of removals within the audit window. The CO₂ Removal Certificates (CORCs) then get issued on the Puro registry and are retired as soon as they are delivered to a specific customer. This customer is the only one allowed to claim the credits, ensuring transparency and accountability in the process. Marianne Tikkanen, Head of Standard at Puro.earth, says: “Climeworks stands as the first direct air capture company that has reached certification with the Puro Standard, establishing the benchmark for the entire market, where transparency and clear accounting are paramount to customers. At Puro.earth, we continue in our dedication to establishing stringent methodologies that instill confidence in buyers and drive the growth, standardization, and liquidity of engineered CDR markets.”

Steps of the Puro certification process:



Editor's Notes

- Images of Climeworks' technology are available in Climeworks' [brand portal](#)
- For media inquiries, please get in touch with media@climeworks.com

About Climeworks

Climeworks is the global leader in carbon removal, empowering companies to advance their net-zero roadmaps and fight global warming.

Climeworks develops, builds, and operates direct air capture plants to remove CO₂ from the air on a billion-ton scale in 2050. It runs the world's first and largest operational direct air capture plant in Iceland, exclusively on renewable energy. Through collaboration with companies like Carbfix, Climeworks ensures that the captured CO₂ is permanently removed from the atmosphere and safely stored underground for thousands of years. All carbon removal services delivered from its Orca plant are certified by the Puro Standard.

Next to innovating and scaling direct air capture, Climeworks also offers individually curated portfolios of high-quality carbon removal solutions to its customers that comprise best-in-class engineered and nature-based approaches. With a diverse and growing customer base, including multinational corporations such as Microsoft, BCG, J.P. Morgan Chase & Co. and SWISS, Climeworks is at the forefront of driving corporate sustainability efforts worldwide.

Remove CO₂ from the air – [with Climeworks](#):

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About Puro.earth

Puro.earth is the world's leading carbon crediting platform for durable carbon dioxide removal (CDR). Via the Puro Standard rigorous carbon credit methodologies, suppliers that remove carbon dioxide from the atmosphere for at least 100 years are certified and issued CO₂ Removal Certificates (CORCs) into the public Puro Registry. CORCs are then purchased by ambitious corporations like Microsoft, Shopify, and Zurich Insurance, to help reverse climate change and neutralize residual carbon emissions.

In 2021, Nasdaq acquired a majority stake in Puro.earth and together are driving forward the carbon removal industry, enabling new revenue streams to accelerate its growth.

For media enquiries, please email: puro@gongcommunications.com.

About DNV

DNV is an independent assurance and risk management provider, operating in more than 100 countries, with the purpose of safeguarding life, property, and the environment. As a trusted voice for many of the world's most successful organizations, we help seize opportunities and tackle the risks arising from global transformations. We use our broad experience and deep expertise to advance safety and sustainable performance, set industry standards, and inspire and invent solutions.

About Carbfix

At Carbfix, we provide a natural and permanent storage solution by turning CO₂ into stone underground in less than two years. Our technology plays a vital part in our mission to significantly contribute to climate recovery through worldwide scaling and further development of safe, underground CO₂ mineral storage. We partner with responsible business partners through technical development, consulting, project development and mineral storage services and operations. Our biggest project, the Coda Terminal, is backed by a substantial grant from the EU Innovation Fund and will allow Carbfix to receive CO₂ by tankers from across borders for permanent geological storage. The project is currently in the advanced stages of planning. For media inquiries:

Email: Olafur.Elinarson@carbfix.com

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