

Press Release

Green Hydrogen Organisation launches the Green Iron Principles at COP30: defining sustainable, fossil-free green iron production

Belém, Brazil — 15 November 2025 — The Green Hydrogen Organisation (GH2) today launched the **Green Iron Principles**, the world's first comprehensive framework defining what truly fossil-free, climate-aligned, sustainable green iron production looks like. The Principles are designed to bring greater clarity, credibility and global coherence to one of the most important energy and industrial transitions.

The Principles establish that **green iron is iron produced with renewable energy and green hydrogen**. They exclude the use of fossil fuels **in every part of the production process**. And they ensure that green iron is produced using **high environmental, social and governance (ESG) standards**, addressing both climate and broader sustainability expectations.

Jonas Moberg, Chair of GH2, said: *"For the first time, we have a clear, science-based definition of green iron — one that aligns with the Paris Agreement and excludes fossil fuels from every part of the process. This is about setting benchmarks that the world can trust."*

Steelmaking is responsible for roughly 7–8% of global CO₂ emissions, making it one of the hardest-to-abate sectors. GH2's Green Iron Principles are designed to accelerate the global scale-up of clean alternatives by aligning producers, investors, buyers and policymakers around a single, credible benchmark.

Joe Williams, CEO of GH2 highlighted the climate imperative: *"Steel is one of the world's most carbon-intensive industries. Without a rapid shift to green iron, there is simply no credible path to meeting global climate goals. These principles define what real decarbonisation looks like in practice."*

Sam Bartlett, GH2 Director of Standards said: *"Investors and manufacturers are ready to pay a premium for verified low-carbon materials. But they need clarity and credibility. The Green Iron Principles provide both — reducing greenwashing risk and accelerating market growth." He added: "This isn't just about reducing emissions. It's about ensuring that green iron is produced responsibly — protecting ecosystems, respecting communities, and creating sustainable jobs wherever these new projects are built."*

Looking ahead

Joe Williams, CEO of GH2 said: "Our goal is simple but ambitious: to make the green iron principles a global benchmark for the next generation of sustainable industrial growth. The technologies are proven — now the standards and policies must follow."



For more information, visit **Green Hydrogen Organisation (GH2)** at <https://gh2.org/>

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About the Green Hydrogen Organisation (GH2)

The Green Hydrogen Organisation (GH2) is a global non-profit foundation incorporated in Switzerland. GH2 was established in 2021 to dramatically accelerate the deployment of green hydrogen and to differentiate green hydrogen from production pathways based on fossil fuels. Green hydrogen made from renewables is the most sustainable hydrogen production pathway for sectors that need it to urgently to reduce their climate impact including steel, chemicals, fertilizers, shipping and aviation. GH2 is a multistakeholder organisation with a wide range of corporate members, government and civil society partners. Visit www.gh2.org for more information.

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