

London, June 27, 2023

## LanzaTech and Primetals Technologies renew 10-year cooperation to advance industry transition to green steel

- **Cooperation to accelerate deployment of LanzaTech's commercial carbon recycling technology for iron and steel industry and expand ecosystem of partners**
- **Will enable more carbon recycling projects in the global iron and steel sector**

LanzaTech, a leading carbon capture and utilization company, and Primetals Technologies today announce the signing of a renewed ten-year cooperation agreement to accelerate the deployment of integrated environmental solutions for the steel industry worldwide.

LanzaTech's commercialized carbon recycling platform takes emissions from heavy industry, including from the steel industry, and transforms them into the building blocks to make fuels and chemicals. Primetals Technologies builds on over 60 years of innovation in metals production and leverages the combined portfolio of predecessors Mitsubishi-Hitachi Metals Machinery and Siemens VAI, founded in 1938. Today, Primetals Technologies represents one of the longest standing global suppliers bringing new technology to the steel sector.

### Multiple solutions for green steel

The renewed commitment cements a shared strategy for advancing the metals industry's green transition: Primetals Technologies's focus on delivering multiple solutions for green steel combined with LanzaTech's novel carbon capture and utilization (CCU) technology that turns waste to value. Under the previous agreement, the companies worked together on process integration and optimization of transforming steel emissions into commodity chemicals. Through this new 10-year agreement, Primetals Technologies and LanzaTech will enable more projects in the global iron and steel sector to adopt LanzaTech's carbon recycling technologies.

"There is no single pathway for the steel industry to reduce its emissions, but a range of solutions can play a significant part in meeting national, regional, and even corporate net-zero goals," says LanzaTech CEO, Dr. Jennifer Holmgren. "We are delighted to offer a solution at commercial scale today and to be working alongside a sector leader like Primetals Technologies to bring our technology to more industrial players around the world."

## Converting emissions

Together, the companies have already collaborated with ArcelorMittal, one of the world's leading steel companies, to deploy LanzaTech's technology at ArcelorMittal's flagship steel plant in Ghent, Belgium. The ArcelorMittal Steelanol project will convert the emissions from the blast furnace into advanced ethanol that can be used to make sustainable fuels and other downstream products—a first of its kind for the European steel industry.

Inaugurated in December 2022, this facility commenced operation at the end of May 2023, and the first samples produced were shown at a joint LanzaTech-Primetals Technologies event at METEC, the largest metallurgical trade fair in Düsseldorf, earlier this month. Once the Steelanol facility reaches full commercial-scale operations, it will have the capacity to reduce carbon emissions by 125,000 tons and produce 80 million litres of advanced ethanol annually.

## The net-zero target

"The steel sector's goal to achieve net-zero by 2050 depends upon breakthrough CCU technologies as they evolve," said Dr. Alexander Fleischanderl, SVP and Head of Green Steel at Primetals Technologies. "Even as steel plants transition to new production methods, LanzaTech's approach can utilize a variety of gas streams without any noticeable alterations to equipment or technology. If a steelworks decides to move on from today's more carbon-intensive production route to newer processes, LanzaTech's technology will still integrate with the resulting new gas streams. This flexibility is tremendously exciting for the future of the industry."

## About LanzaTech

Headquartered in Skokie, Illinois, U.S.A., LanzaTech (Nasdaq: LNZA) transforms waste carbon into materials such as sustainable fuels, fabrics, packaging, and other products. Using a variety of waste feedstocks, LanzaTech's technology platform highlights a future where consumers are not dependent on virgin fossil feedstocks for everything in their daily lives. LanzaTech's goal is to challenge and change the way the world uses carbon, enabling a new circular carbon economy where carbon is reused rather than wasted, skies and oceans are kept clean, and pollution becomes a thing of the past. For more about LanzaTech, visit <https://lanzatech.com>.

## About Primetals Technologies

Primetals Technologies, Limited, headquartered in London, United Kingdom, is a pioneer and world leader in the fields of engineering, plant building, and the provision of lifecycle services for the metals industry. The company offers a complete technology, product, and services portfolio that includes integrated electrics and automation, digitalization, and environmental solutions. This covers every step of the iron and steel production chain—from the raw materials to the finished product—and includes the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a Group Company of Mitsubishi Heavy Industries, with around 7,000 employees worldwide. To learn more about Primetals Technologies, visit the company website [www.primetals.com](http://www.primetals.com).



Representatives from LanzaTech and Primetals Technologies during the signing ceremony. From left to right: Karl Purkarthofer, Executive Vice President & Global Head of Services Primetals Technologies, Alexander Fleischanderl, Senior Vice President & Head of Green Steel Primetals Technologies, Jennifer Holmgren, CEO LanzaTech, and Sanjeev Manocha, Global Business Development Director, LanzaTech.

This **press release** and a **press picture** are available at [www.primetals.com/press/](http://www.primetals.com/press/)

**Contact for journalists:**

Björn Westin, Press Officer  
bjoern.westin@primetals.com  
Mob. +43 664 6150250

Follow us on social media:

[linkedin.com/company/primetals](https://www.linkedin.com/company/primetals)

[facebook.com/primetals](https://www.facebook.com/primetals)

[twitter.com/primetals](https://twitter.com/primetals)

**Primetals Technologies, Limited**, headquartered in London, United Kingdom, is a pioneer and world leader in the fields of engineering, plant building, and the provision of lifecycle services for the metals industry. The company offers a complete technology, product, and services portfolio that includes integrated electrics and automation, digitalization, and environmental solutions. This covers every step of the iron and

---

**Primetals Technologies, Limited**  
A Group Company of Mitsubishi Heavy Industries  
Communications

Chiswick Park, Building 11, 566  
Chiswick High Road  
W4 5YS London  
United Kingdom

steel production chain—from the raw materials to the finished product—and includes the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a Group Company of Mitsubishi Heavy Industries, with around 7,000 employees worldwide. To learn more about Primetals Technologies, visit the company website [www.primetals.com](http://www.primetals.com).