

In brief**Doubling capacity**

Next Level Steel of Mesa, Arizona, USA, is constructing a new steelyard, and hiring 40 highly-skilled steelworkers, in support of its fast-growing Castellated Structural Group (CSG). Next Level claims to be the first fabricator in Arizona specialising in high-tech 'castellated steel' beams, which are said to be stronger, faster to erect and span further distances than traditional beams. CSG's new facility will more than double its capacity.

Luxembourg headquarters

Construction has started on ArcelorMittal's new global headquarters, ArcelorMittal Kirchberg, following a groundbreaking ceremony on 21 June at the Kirchberg building site. During the event a steel beam, made with ArcelorMittal's XCarb recycled and renewably produced steel, was lowered into place to signal the start of construction.



The location of the new headquarters building reflects ArcelorMittal's historic ties to Luxembourg, where the company has its head offices as well as five industrial sites producing or processing steel.

The building, which will be commissioned in the first quarter of 2026, incorporates 10,000 tonnes of ArcelorMittal steel, mainly produced in Luxembourg from recycled steel.

Redevelopment plans

John Reid & Sons (REIDsteel) has acquired a 2.2-acre plot next to its existing headquarters in Dorset, UK.

Purchase of the site will allow REIDsteel to invest in a new manufacturing complex, offices and staff facilities.

The redevelopment over a total of 6.4 acres will allow REIDsteel to considerably enhance its productivity and capabilities in the design, engineering, manufacture and supply of steel structures across the UK, Europe and the world.

Significant increase in order intake and turnover



SMS group significantly boosted its order intake to €4.6bn in 2022. The main drivers of this strong growth were the green transformation of the steel and metals industry, as well as robust economic activity in both India and the USA. Sales also rose considerably to €3.1bn.

"Last year was again marked by problem areas and crises around the world," said Burkhard Dahmen, CEO of SMS group. "Against this background, 2022 still proved to be a good year, in which we achieved our interim goals despite various challenges. We saw a further increase in the service business in terms of both order intake and turnover. The goal remains to expand the service share of our total turnover to 50% by 2027. Most recently, SMS secured a service order from H2 Green Steel worth more than €400m over 12 years."

Torsten Heising, CFO of SMS group, said, "The high order intake is impressive, especially as it does not yet include the latest major orders (the first climate-neutral steel plant in Sweden for H2 Green Steel and the transformation of thyssenkrupp Steel's iron and steel mill in Duisburg). Based on the good order backlog, we intend to systematically increase our profitability in the coming years. We are already planning a significant improvement in results for the current year."

For the current fiscal year, SMS expects a further increase in order intake, amounting to up to six billion euros. Turnover for 2023 is expected to rise to more than €3.5 billion.

Production of molybdenum fell by 3%

According to the International Molybdenum Association (IMOA), global production of molybdenum fell by 3% to 146.8 million pounds (mlbs) in Q1 2023 compared to the previous quarter but rose 5% when compared to Q1 2022. Global usage of molybdenum in Q1 2023 fell by 8% to 144mlbs when compared to the previous quarter, a 6% fall when compared to Q1 2022.

China, the only region to see a rise in production this quarter, remained the largest producer of molybdenum at 67.2mlbs – a 3% rise when compared the previous quarter, but a 14% rise when compared to Q1 2022. South America remained the second largest producer at 41.2mlbs – a 7% fall when compared to the previous quarter. Production in North America fell to 27mlbs – an 11% fall on the previous quarter.

China remained the largest user of molybdenum at 56.1mlbs but saw the largest fall, 19%, when compared to the previous quarter, and a 14% fall when compared to Q1 2022. Europe remained the second largest user at 33.2mlbs.

Flagship carbon capture facility in Ghent

ArcelorMittal and LanzaTech Global have announced that production from ArcelorMittal's carbon capture and utilisation (CCU) facility in Ghent, Belgium, has begun. The €200m 'Steelanol' facility is a first of its kind for the European steel industry, deploying technology developed by LanzaTech.

This is the first step toward full operation of a commercial scale facility that will capture carbon-rich waste gases from steelmaking and biologically convert them into advanced ethanol through LanzaTech's bio-based process.

Unlike traditional fermentation, the process ferments gases instead of sugars and uses a biocatalyst instead of yeast. The facility was inaugurated in December 2022, with cold commissioning taking place thereafter.

In May 2023, the first gases from the steel mill's blast furnace were safely introduced to LanzaTech's biocatalyst. After a successful inoculation, initial samples that contained ethanol were produced in mid June, demonstrating that the carbon in the gases is being

converted into new chemical products. Commercial-scale ethanol production from the bioreactors will follow, with expected ramp up of production in the coming months. This advanced ethanol can then be used as a building block to produce a variety of products.

The ethanol will be jointly marketed by ArcelorMittal and LanzaTech under the Carbalyst brand name.

The Steelanol plant has the annual capacity to produce 80 million litres of advanced ethanol, around half of the total current demand in Belgium. It expects to reduce carbon emissions from the Ghent plant by 125,000 tonnes annually, thereby advancing the EU's 2030 Climate Target Plan to reduce greenhouse gas emissions by 55% by the end of the decade.

"This is a momentous occasion. ArcelorMittal has long been a leader in decarbonisation of the steel industry, and now we are delighted to announce the first product samples from the Steelanol plant," said Jennifer Holmgren, CEO LanzaTech. "LanzaTech, ArcelorMittal, Primetals and E4Tech have worked together and have

been supported by CINEA, to create a vision of a new circular carbon economy in Europe, displacing fossil carbon from the ground. To many people, using CCU to capture emissions to make everyday products seems like science fiction, but we have shown the world what is possible at industrial scale today."

"ArcelorMittal has a passion for sustainability and circularity and has found the right partner in LanzaTech to realize that today. The beauty of the Steelanol facility is that we are enabling a new form of industrial symbiosis, connecting industries together by using gases from steel production as a feedstock for other sectors," said Manfred Van Vlierberghe, CEO ArcelorMittal Belgium.

"This is part of the Smart Carbon Strategy we are developing. By sharing these resources between sectors, we are not only furthering our circular, Smart Carbon mission, but also helping to solve climate, CO₂ and waste challenges."

The Steelanol facility is expected to reach full operational capacity before the end of the year.