



# GMH GRUPPE

## Media Information

### Even more recycling: Georgsmarienhütte GmbH processes steelwork slag at its own slag yard in Spelle

Georgsmarienhütte GmbH has commissioned a new slag processing site of up to 4.6 hectares at the port in Spelle-Venhaus. The move is part of the company's goal to put the by-products from steel production to further, sustainable use.

**Georgsmarienhütte, 11 October 2023.** Georgsmarienhütte GmbH produces 90,000 to 120,000 tonnes of electric arc furnace slag (EOS) annually during steel production at the GMH Gruppe's largest production site. In order to make further use of this by-product as a recyclable material, the company has now commissioned one of the most modern slag processing facilities in Europe at the port in Spelle-Venhaus. On an area of currently 2.3 hectares - expandable to up to 4.6 hectares - up to 1,000 tonnes of EOS can be processed daily for further use.

*"We chose the site at the port in Spelle-Venhaus because we have sufficient space here and good transport links," explains Marc-Oliver Arnold, Plant Director at Georgsmarienhütte GmbH. "The slag can be transported here by lorry and later, if possible, also by rail. After processing, transport by ship is then also possible."*

Upon delivery, the coarse raw slag material is first crushed and then classified into different grain sizes with the help of various processing systems, such as jaw crushers, impact mills and multi-stage screening plants. At the same time, steel that is still in the material is sorted out via various stages with magnets. This material flows back into the various steelmaking processes as scrap. The processed slag is mainly used as a carrier material in road construction. This saves resources because the slag replaces natural rock materials that would otherwise have had to be mined elsewhere.

The operation of the site, and the storage of slag material, was approved by the relevant authorities in accordance with Germany's Federal Emissions Control Act. Various measures have been taken to ensure that the legal requirements are met and, for the most part, significantly exceeded. For example, all rainwater that cannot drain away naturally is collected on the paved areas and purified by a special filter system. Water sprinklers also minimise the spread of dust. In addition, high, soundproof walls protect the distant neighbourhood from noise emissions.

### About GMH Gruppe

GMH Gruppe is a full-range supplier of recycled input material through ready-to-install components and one of the largest privately owned metalworking companies in Europe. The group comprises 15 medium-sized production companies in the steel, forging and casting industry and is present in more than 50 countries. With around 6,000 employees, the GMH Gruppe generated annual sales of around two billion euros in 2021.

GMH Gruppe is a pioneer in sustainable steel production and has also been accepted into the "Association of Climate Protection Companies". By recycling scrap metal, the company produces green steel and thus makes an important contribution to the circular economy. The use of electric arc furnaces at four of its sites reduces carbon dioxide emissions by a factor of five compared with conventional blast furnaces. This, in turn, also reduces the carbon footprint of GMH's customers.



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Global customers include companies from the automotive industry, mechanical and plant engineering, railroad technology, power generation, transport logistics as well as the sectors, aerospace, agriculture and construction machinery.

The GMH Gruppe has set itself the goal of being completely climate-neutral by 2039.

### **About Georgsmarienhütte**

Georgsmarienhütte GmbH, based in Georgsmarienhütte, Lower Saxony, is a leading European supplier of crude steel, steel bars and bright bars based on quality and engineering steels. In addition, the company supplies machined and ready-to-install components. Already today, Georgsmarienhütte is one of the most climate-friendly steel companies in Germany. With its comparatively low-CO<sub>2</sub> value chain, which consists of melting scrap in the electric arc furnace and recycling it into new steel, the company is a pioneer in sustainable steel production, making an important contribution to the circular economy. The methodology used by Georgsmarienhütte to calculate its Product Carbon Footprint (PCF) has been validated by TÜV SÜD and is now being applied to more than a thousand steel variants.

Besides the automotive industry and its suppliers, Georgsmarienhütte serves customers in the mechanical and plant engineering and energy industry. Steel made in Georgsmarienhütte is used where exceptional stresses have to be coped with, where power is generated and immense forces have to be transmitted, and where safe and wear-resistant operation is essential. For further information please visit [GMH Gruppe](https://www.gmh-gruppe.de).

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