

Media Information

27 October 2025

## **New environmental impact statement: All BMW Group operations in Parsdorf included in EMAS environmental register**

+++ Parsdorf high-voltage battery pilot plant included for first time +++  
BMW Group meets strict requirements +++ Environmental impact statement  
now online +++

**Munich/Parsdorf.** With the publication of its Environmental Impact Statement 2024, all BMW Group operations in Parsdorf are now part of the European environmental register, EMAS. In addition to the BMW Group Cell Manufacturing Competence Centre (CMCC) and test-parts logistics, the pilot plant for high-voltage batteries in Parsdorf has been included in the environmental impact statement and EMAS registration for the first time. EMAS stands for the "Eco-Management and Audit Scheme", which claims to be the most stringent environmental management system in the world. "We are very pleased with the EMAS registration of all our operations in Parsdorf, which underlines that our processes operate at a very high level – both economically and environmentally," says Hansjörg Schilp, director of the CMCC and pilot plant for high-voltage batteries in Parsdorf. "The entire team has done an outstanding job."

### **EMAS: Strict requirements and high environmental standards**

To be listed in the EMAS Register, companies must fulfil strict requirements and adhere to rigorous environmental standards. EMAS is a globally recognised framework that enables organisations to manage and continuously improve their environmental impact. A key element of the EMAS environmental management system is the international environmental management standard ISO 14001. EMAS also focuses on measurable improvements, transparency and legal certainty. Auditing aims to support companies in continuously improving their environmental performance – for example, by using energy and material more efficiently and reducing emissions, wastewater and waste from their sites. Beyond

these direct environmental impacts, EMAS also addresses and evaluates indirect aspects, including the sustainability of products, procurement and supply chains, contractor practices and the environmental impact of employees commuting to work. (Source: <https://www.umweltbundesamt.de/themen/wirtschaft-konsum/wirtschaft-umwelt/umwelt-energiemanagement/emas-umweltmanagement-guetesiegel-der-europaeischen#systematisches-umweltmanagement-mit-emas>)

### **Efficient operations and concepts for the circular economy**

The validated environmental impact statement and the resulting inclusion in the EMAS Register by the Chamber of Commerce and Industry (IHK) for Munich and Upper Bavaria underscore the rigorous environmental standards upheld by the BMW Group in Parsdorf. Battery cell production at the CMCC, one of the three Parsdorf facilities, is powered entirely by electricity from 100% renewable energy sources. Hot water for process ventilation is generated using waste heat recovered from various primary processes, and all three Parsdorf facilities utilise heat pumps in their operations. "On our pilot lines for battery cells and high-voltage batteries, we are focusing on reducing the use of critical raw materials and energy, avoiding solvents and developing innovative circular economy approaches," explains Schilp. Raw materials represent a significant cost factor for battery cells and high-voltage batteries. Efficient and responsible use of these resources is therefore necessary and also makes economic sense. The BMW Group is gaining valuable insights in this area in Parsdorf. Residual materials from the production process are collected and, wherever technically feasible, reintegrated into the value-creation cycle at the BMW Group's Competence Centres through direct recycling. This innovative procedure enables residual materials from battery cell production, as well as whole battery cells, to be mechanically dismantled into their components.

**Transparent reporting: Environmental impact statement now online**

The environmental impact statement for the BMW Group's Parsdorf operations (CMCC, pilot plant for high-voltage batteries and test-parts logistics) has been independently reviewed by TÜV SÜD Umweltgutachter GmbH and is now available online at: [www.bmwgroup-werke.com/produktionskompetenz/de.html](http://www.bmwgroup-werke.com/produktionskompetenz/de.html)

**How the cell is created: Production steps for sample manufacturing at the CMCC**

Cell manufacturing at the CMCC in Parsdorf begins with electrode production: Here, the base material, comprising, for example, graphite for the anode and nickel oxides for the cathode, with binders and solvents, is metered and mixed in a precisely measured ratio. This creates the so-called "slurry" – which means wafer-thin metal foils are coated and then compressed after drying. In technical jargon, this is referred to as "calendering". The highest level of precision is required: The foil is just a few micrometres thick – in other words, thinner than the threads of a spider web – while the coating is in the micrometre range. During cell assembly, the coated foils, referred to in the jargon as calendered electrodes, are coiled into so-called "jelly rolls" using the separator and inserted into the cell housing. The cells are filled with electrolyte, then charged for the first time and finally checked for functionality and quality.

**Parsdorf pioneers: How the BMW Group builds Gen6 high-voltage batteries**

Parsdorf is also home to the BMW Group's largest pilot plant for Gen6 high-voltage batteries, where production processes are developed and tested before large-scale production begins at the series plants in Debrecen (Hungary), Irlbach-Straßkirchen (Lower Bavaria), Shenyang (China), San Luis Potosí (Mexico) and Woodruff (USA). More than 350 employees have been building initial high-voltage battery prototypes here since 2023. In the meantime, these batteries have also been delivered to the vehicle plant in Debrecen, Hungary, where they were installed in test vehicles for the Neue Klasse. For series production, the BMW Group sources battery cells for its high-voltage batteries from leading cell manufacturers, who

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produce the cells to the company's specifications. The highest technical standards apply. Upon receipt of goods, additional measurements – such as voltage checks – are carried out. Next comes cell clustering, where the battery cells are connected to coolers. This step ensures optimal insulation and cooling of the cells. The cell clusters and cell contact system are then laser-cleaned and welded with pinpoint precision. The in-line inspection continuously monitors each weld seam in real time. An innovative foaming process follows, ensuring that all elements are protected as a mechanical unit. The foam thus guarantees the safety, stability and durability of the high-voltage battery. The housing is then closed, sealed and riveted. In the final assembly step, the Energy Master – the central control unit – is installed onto the high-voltage battery. A permanently elastic sealing adhesive is applied to ensure a reliable seal. Finally, each high-voltage battery undergoes a 100% end-of-line inspection to ensure quality, safety and function.

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With its four brands, BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

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In 2024, the BMW Group sold 2.45 million passenger vehicles and more than 210,000 motorcycles worldwide. The profit before tax in the financial year 2023 was € 17.1 billion on revenues amounting to € 155.5 billion. As of 31 December 2023, the BMW Group had a workforce of 154,950 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. Sustainability is a key component of the BMW Group's corporate strategy – from the supply chain through production to the end of the use phase of all products.

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