BMW GROUP
Plant Leipzig

Press Information
18 October 2024

Lower-emissions transport: Electric trucks for electric components

+++ Two fully electric trucks on the road for BMW Group Plant Leipzig +++ Parts supplies for high-voltage battery production +++ Annual savings of approx. 9 tonnes of CO_2 +++

Leipzig. The electrification of transport logistics for e-component production is gathering pace. Recently, two fully electrically powered trucks took over the transportation of components from the warehouse to the high-voltage battery production halls at BMW Group Plant Leipzig. Together, they will save around nine tonnes of CO_2 a year compared with conventional diesel-powered transport vehicles.

The two electric trucks complete the eight-kilometre round trip from the logistics centre to Leipzig's high-voltage battery production halls and back up to twelve times a day. That's almost 100 kilometres per truck per day – covered quietly and with zero local emissions. For short distances like this, electric trucks are the perfect solution.

The two vehicles transport parts for e-drive production, primarily of battery cells and battery modules. They take the parts from the logistics warehouse in BMW Allee to the production halls on the plant premises, operating round the clock in three shifts. The semi-trailer sports a battery symbol on the side and words proclaiming that the fully electric truck is on the road for Leipzig – for local production, emissions-free transportation and high-voltage batteries made in the city.

Electric trucks support high-voltage battery production

BMW Group Plant Leipzig has been manufacturing e-components for the production network since 2021. Since early 2024 it has also been running the entire high-voltage battery production process for the current, fifth generation. This consists of three stages, which are carried out on the plant's five cell coating, three module production and two high-voltage battery assembly lines – and include the powerpacks for the MINI Countryman Electric, manufactured in-house since March of this year. Battery production currently operates with a team of about 1,000 employees.

Press Information
18 October 2024

As well as high-voltage batteries for the MINI Countryman Electric, Plant Leipzig produces battery packs and modules for the BMW production network, for the fully electric BMW iX1, BMW iX2, BMW i4, BMW i5 and BMW iX.

High-voltage batteries are produced in the halls that used to be home to BMW i3 and BMW i8 assembly. The halls have now been converted and new buildings added, creating some 150,000m² of space for this area of production on the premises of Plant Leipzig. Annual output stands at up to 300,000 high-voltage batteries a year, with the BMW Group's investments in e-component production at Plant Leipzig totalling more than 900 million euros so far.

Plant Director Petra Peterhänsel sees the introduction of the two electric trucks as a further milestone on the road to the future: "We are delighted to be undertaking this journey with our longstanding logistics partner, the Rudolph Logisitik Gruppe. The transition to electromobility and sustainable production affects not only our BMW and MINI cars but our production methods and supply chains as well."

Lower emissions, less noise

Powered by lithium iron phosphate (LFP) battery systems, the two fully electric trucks working for BMW Group Plant Leipzig are made by Designwerk. According to the manufacturer, the four electric drives in a Designwerk electric truck deliver 610 hp and are three times more efficient than their diesel counterparts when out on the road. They produce zero emissions when in operation and do not impact the environment with soot particles, nitrogen oxides (NOx), carbon dioxide (CO_2) or engine noise. Studies show that when passing or accelerating at low speeds, an electric truck emits around five decibels (dB) less noise than a comparable diesel-powered vehicle.

Trucks are charged during drivers' breaks. Their 340 kWh batteries take around 1.5 hours to recharge to 80 percent. They can be replenished about 3,000 times, according to Designwerk.

Open to different technologies to reduce CO_2 from logistics

The use of electric trucks in logistics is among the measures in the BMW Group-wide Green Transport Logistics Project. This aims to reduce emissions from

Press Information
18 October 2024

transportation in the global production and sales network, and takes an open approach to technologies, prioritising CO_2-efficient energy and transportation options. Besides battery-electric trucks, increasing use is being made of biofuels such as HVO100, made from residues and waste and used at the Munich site, for instance. Production deliveries in Germany have also been trialled using bio-LNG in vehicles on the roads. Moreover, in an attempt to learn more about using hydrogen as a fuel for trucks, the BMW Group is involved in research projects such as H2Haul and HyCET.

By 2030 the BMW Group aims to reduce CO_2 emissions across the vehicle lifecycle by 40 percent, compared with 2019.

In case of queries, please contact:

Corporate Communications

Kai Lichte, Head of Communication BMW Group Plants Leipzig, Berlin, Eisenach
Phone: +49-(0)341-445-38000
Mobile: +49-(0)176-601-51240
E-mail: Kai.Lichte@bmwgroup.com

The BMW Group Plant Leipzig

Series production at BMW Group Plant Leipzig was launched in 2005. Today up to 1,300 vehicles a day roll off the production line. Leipzig's current model portfolio comprises the BMW 1 Series, BMW 2 Series Gran Coupé, BMW 2 Series Active Tourer and the MINI Countryman. The BMW Group has already invested more than 4 billion euros in the site at Leipzig, which employs approx. 6,000 people.

Internet: www.bmw-werk-leipzig.de
Instagram: https://www.instagram.com/bmwgroupwerkleipzig

The BMW Group

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 and mobility services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

Press Information
18 October 2024

In 2023, the BMW Group sold over 2.55 million passenger vehicles and more than 209,000 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, from the supply chain through production to the end of the use phase of all products.

www.bmwgroup.com
LinkedIn: http://www.linkedin.com/company/bmw-group/
YouTube: https://www.youtube.com/bmwgroup
Instagram: https://www.instagram.com/bmwgroup
Facebook: https://www.facebook.com/bmwgroup
X: https://www.x.com/bmwgroup