Mercedes-Benz

Press Information
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360° Environmental Check for the all-new electric GLB: 21% less CO_2 in the supply chain and up to 3 tons of CO_2 savings in the battery cells achieved by reduction measures

- Approximately 21 percent CO_2 reduction in the supply chain through the use of renewable energy and recycled content in key components and materials such as the battery, aluminum, steel and thermoplastics – compared to production without these measures
- Up to 3 tons of CO_2 savings in the battery cells through the use of renewable energy
- More than 50 percent of the aluminum (359 lbs.) comes from carbon-reduced production using renewable energy, resulting in a savings of approximately 0.6 tons of CO_2

Stuttgart. Mercedes-Benz is consistently advancing the decarbonization of its vehicles. The all-new electric GLB sets a benchmark for more sustainable production and a carbon reduction in the supply chain with its 360° Environmental Check. The analysis, verified by independent auditors, highlights significant progress, particularly in manufacturing – one of the most important areas for reducing emissions.

The key result: CO_2-emissions can already be reduced by approximately 21 percent during the production phase by taking specific reduction measures. This is made possible by close collaboration with suppliers, as well as the targeted use of renewable energy and carbon-reduced materials.

Consistently engineered for carbon reduction across the entire value chain

The new GLB is based on the new Mercedes-Benz Modular Architecture (MMA). Designed from scratch with a focus on decarbonization and circular economy principles, particular attention has been paid to emission-intensive components and materials such as the battery, aluminum, steel and thermoplastics, which are at the center of the carbon reduction measures.

Key contributors to the environmental performance at a glance:

- CO_2-reduced high-voltage battery: The use of electricity from renewable sources in cell production reduces the carbon footprint of the battery cells by approximately 40 percent. Across the entire battery, this corresponds to a savings of approximately 3 tons of CO_2 per battery.
- Sustainable aluminum: More than half of the aluminum used (359 lbs.) comes from smelters powered by renewable energy. This reduces the carbon footprint of these components by approximately 30 percent – amounting to a total savings of approximately 0.6 tons of CO_2.
- Transformation of steel production: Steel and ferrous materials account for approximately 46 percent of the materials used. The GLB already incorporates approximately 44 lbs. of CO_2-reduced steel produced in electric arc furnaces powered by renewable energy. The combination of green hydrogen usage and electric steel production processes has the potential to enable virtually CO_2-free steel production in the future.
- More recycled materials for lower emissions: A total of 99 lbs. of thermoplastic recyclates are used in vehicle components on the GLB including:

- Frunk tub: 50 percent recycled content
- Jacking points: made from 100 percent recycled materials
- Longitudinal member claddings and bumper substructures: up to 30 percent recycled materials

These measures alone result in approximately 156 lbs. of CO_2 savings compared with the use of primary materials, while also promoting a circular economy.

Net carbon-neutral[1] production at the Kecskemét plant
Since 2022, Mercedes-Benz's own vehicle production sites have been net carbon-neutral[1]. By 2030, more than 70 percent of energy requirements in production are set to be covered by renewable energy. The goal for all Mercedes-Benz production plants worldwide is to operate entirely on renewable energy without CO_2 emissions by 2039. As part of ongoing construction measures, Mercedes-Benz is investing in the expansion of photovoltaic systems across the entire Kecskemét site. In addition, there is a strong focus on the continuous reduction of water consumption and waste.

Click here for the 360° Environmental Check of the all-new electric GLB.

About the 360° Environmental Check
Mercedes-Benz has published product-specific environmental information since 2005. The 360° Environmental Check is based on a comprehensive lifecycle assessment of each vehicle and verified by independent auditors. This transparency initiative reflects Mercedes-Benz's commitment to helping customers make informed purchasing decisions.

Mercedes-Benz Anniversary Year "140 Years of Innovation"
Since Carl Benz filed the patent for the first automobile 140 years ago and Gottlieb Daimler built his motorized carriage shortly afterwards, Mercedes-Benz has dedicated itself to constant innovation and to creating the world's most desirable cars for customers. This ambition has driven every innovation – from the world's first automobile in 1886 to the biggest product launch program in the company's history that is currently underway. With its passion for performance and pioneering power, excellence and an unwavering commitment to customer service, the brand has consistently shaped the future of mobility. The result goes well beyond engineering achievement – it creates the unmistakable feeling that leads through everything Mercedes-Benz does: Welcome home.

Mercedes-Benz is celebrating 140 years of innovation by driving three new S-Class sedans on a transcontinental journey to 140 locations worldwide. Each place highlights the brand's technology, heritage, pioneering spirit and worldwide presence. Along the way customers, fans and colleagues will get to join in the celebrations – on an epic adventure that will run until October 2026. Follow the "140 Years. 140 Places" drive across six continents on our "140 years of innovation | Mercedes-Benz Media" special and via the Mercedes-Benz Community.

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About Mercedes-Benz USA
Mercedes-Benz USA (MBUSA), headquartered in Atlanta, is responsible for the distribution, marketing and customer service for all Mercedes-Benz products in the United States. MBUSA offers drivers the most diverse lineup in the luxury segment with 18 model lines ranging from the sporty GLA SUV to the flagship S-Class and the dynamic all-electric vehicles from Mercedes-Benz. MBUSA is also responsible for Mercedes-Benz Vans in the U.S. More information on MBUSA and its products can be found at www.mbusa.com and www.mbvans.com. To learn more about all Mercedes-Benz entities in North America, visit group.mercedes-benz.com/northamerica.

Accredited journalists can visit our media site at media.mbusa.com.

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[1] Net carbon-neutral means that carbon emissions that have neither been avoided nor reduced at the Mercedes-Benz Group are compensated for by certified offsetting projects.