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Mercedes-Benz

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The intelligent Mercedes-Benz charging ecosystem

MB.CHARGE serves as the umbrella for all digital charging solutions from Mercedes-Benz. The comprehensive charging ecosystem is designed to offer customers a seamlessly connected and convenient charging experience for the electric vehicles with the star – whether on the road, at home or at work. For public charging, Mercedes-Benz bundles the MB.CHARGE Public¹ service with additional digital features that make charging even more comfortable. For home charging, the Digital Extra MB.CHARGE Home² provides a seamless connection between your Mercedes-Benz and your home.

Charging on the go: The global Mercedes-Benz charging service MB.CHARGE Public¹

MB.CHARGE Public offers Mercedes-Benz drivers access to one of the largest charging networks worldwide and is seamlessly integrated into the MBUX head-unit as well as the Mercedes-Benz app.

- **Access to one of the largest public charging networks globally:** More than 2.9 million charging points from over 1,500 charge point operators are integrated worldwide.
- **Intelligent Route Planning:** Navigation with Electric Intelligence calculates a time-efficient route including charging stops or guides the driver to the nearest charging point in the vicinity and at the destination.
- **Easy Authentication:** Authentication at the charging station is always carried out in the same user-friendly and familiar way via the Mercedes-Benz App, the RFID charging card, or directly via Plug & Charge³ with cooperating charge point operators.
- **Transparent Costs:** Before charging, the exact prices per kilowatt-hour or minute, as well as the estimated costs to reach the maximum charge level for fully electric vehicles, are displayed.
- **Renewable Energy⁴:** In Europe, the US and Canada, Mercedes-Benz ensures that an equivalent amount of electricity from renewable energy sources is fed into the power grid for charging processes, if no electricity from renewable energy sources is provided.

Charging at home: The Mercedes-Benz charging system MB.CHARGE Home²

MB.CHARGE Home serves as the umbrella for all charging solutions that Mercedes-Benz offers for home use. One example is the use case MB.CHARGE Home Pro, which connects the vehicle with the home energy infrastructure and provides the basis for Mercedes-Benz's bidirectional and connected charging solutions. Over the coming years, the bidirectional charging functions V2G and V2H will be introduced gradually in selected markets.

The new EQS becomes a vehicle-based active energy storage system: with bidirectional charging it enables charging and additionally the targeted feed-in of energy to the household grid (V2H) or the public electricity

grid (V2G).⁵ This creates economic benefits for customers, increases the self-consumption rate of renewable energy⁶ and supports grid stability. Thereby, V2H and V2G make the vehicle an active component of the energy transition.

Vehicle to Home (V2H) — independence and security of supply at home

- **Self-sufficient energy source:** Surplus solar power from your photovoltaic system can be stored in the vehicle during the day and discharged into the household grid when needed.
- **Cost reduction:** Targeted discharge during periods of high electricity prices can reduce household electricity costs.
- **Emergency power function⁷:** In the event of grid disruptions, the vehicle can serve as a local energy source for several days, ensuring continued power supply to critical household devices.

Vehicle to Grid (V2G) — flexibility and additional revenue streams

- **Grid services:** The vehicle can contribute to grid stability by feeding surplus or specifically allocated energy back into the public grid for compensation.
- **Market participation:** Through suitable tariff models and flexibility markets, additional revenue can be generated by targeted energy discharge. The feed-in is enabled via a bidirectional DC wallbox and a dynamic electricity tariff.⁸
- **System effect:** V2G reduces the need for centralised storage and helps to balance fluctuations from wind and solar generation.
- **Regulatory framework:** The use of V2G depends on country-specific regulatory requirements. Mercedes-Benz is working with partners to establish the necessary conditions.
- **MB.CHARGE Home Pro Intelligent⁵** will be introduced in 2026 with bidirectional functionality. An automated charging schedule running in the background charges the vehicle when electricity is available at low cost. During periods of limited energy availability in the grid and correspondingly high market prices, energy from the vehicle battery can be fed back into the grid with attractive compensation. This turns the vehicle into an active energy source, reduces home charging costs, and helps relieve pressure on the power grid.

Technical overview

- **Connection and charging path:** The bidirectional wallbox is connected to the home via alternating current (AC); energy flows between vehicle and wallbox run along the direct current (DC) charging path and are managed by an integrated inverter.
- **Series preparation:** The vehicle is factory-prepared for bidirectional charging in all markets. The availability of specific offers depends on market conditions, energy providers and partnerships.

Charging at work: The tailored charging solutions for Mercedes-Benz business customers

From MB.CHARGE Public for company fleet use during public charging, to reimbursing electricity charged at home for company car use, through to dedicated on-site charging infrastructure at company premises, Mercedes-Benz — together with selected partners — offers tailor-made charging solutions designed to meet individual customer needs.

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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 motorised carriage shortly afterwards, Mercedes-Benz has dedicated itself to constantly innovate and to create the world's most desirable cars for customers. This ambition has driven every innovation – from the world's first automobile in 1886 to today's intelligent and safe electric vehicles, like the all-new GLC and the award-winning all-new CLA. With the new S-Class, the company continues the biggest product launch programme in its history. 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 saloons on a trans-continental 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. 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](#).

Further information about **Mercedes-Benz** is available at www.mercedes-benz.com and on our **LinkedIn channel** under [Mercedes-Benz AG | LinkedIn](#).

Press information and digital services for journalists and multipliers can be found on our **Mercedes-Benz Media online platform** at media.mercedes-benz.com.

Mercedes-Benz AG at a glance

Mercedes-Benz AG is part of the Mercedes-Benz Group AG with a total of around 164,000 employees worldwide and is responsible for the global business of Mercedes-Benz Cars and Mercedes-Benz Vans. Ola Källenius is Chairman of the Board of Management of Mercedes-Benz AG. The company focuses on the development, production and sales of passenger cars, vans and vehicle-related services. Furthermore, the company aspires to be the leader in the fields of electric mobility and vehicle software. The brand portfolio of Mercedes-Benz Cars includes the Mercedes-Benz brand, as well as Mercedes-AMG, Mercedes-Maybach, and the G-Class product brand. Mercedes-Benz AG is one of the world's largest manufacturers of high-end passenger cars. In 2025 it sold more than 2.1 million passenger cars and vans. In its two business segments, Mercedes-Benz AG is continually expanding its worldwide production network with around 30 production sites on four continents. As sustainability is the guiding principle of the Mercedes-Benz strategy and for the company itself, this means creating lasting value for all stakeholders: for customers, employees, investors, business partners and society as a whole. The basis for this is the sustainable business strategy of the Mercedes-Benz Group. The company thus takes responsibility for the economic, ecological and social effects of its business activities and looks at the entire value chain.

¹ To use the Digital Extras, you must create a Mercedes me ID and agree to the Terms of Use for Digital Extras and the Mercedes me ID Service Terms in their applicable versions. In addition, the respective vehicle must be linked to the user account. After the limited term expires, the Digital Extras can be extended for a fee, provided they are still offered for the corresponding vehicle. Customers must always close a charging contract with a selected third party provider.

² To use the Digital Extras, you must create a Mercedes me ID and agree to the Terms of Use for Digital Extras and the Mercedes me ID Service Terms in their applicable versions. In addition, the respective vehicle must be linked to the user account. After the limited term expires, the Digital Extras can be extended for a fee, provided they are still offered for the corresponding vehicle. The use of V2H and V2G requires a compatible bidirectional DC wallbox and a dynamic electricity tariff as well as a smart meter.

³ With Plug & Charge, the charging process starts as soon as the charging cable is plugged in. The vehicle transmits the contract data directly to the charging station. A prerequisite is an MB.CHARGE Public charging contract, which is used for billing.

⁴ For every green electricity supply contract or Energy Attribute Certificate, Mercedes-Benz applies a high standard for renewable energy. For example, Energy Attribute Certificates are sourced exclusively from wind and solar power plants that are less than six years old and carry the EKOenergy label.

⁵ The use of V2H and V2G requires a compatible bidirectional DC wallbox and a dynamic electricity tariff as well as a smart meter.

⁶ Increasing the self-consumption rate of renewable energy via the vehicle requires charging the vehicle using a photovoltaic system or green electricity.

⁷ For emergency power supply, a bidirectional DC wallbox with an automatic transfer switch and a black start battery is necessary. The duration of emergency power supply depends on individual consumption.

⁸ In Germany, a wallbox and the green electricity tariff 'Mercedes-Benz Intelligent Pro Eco Tariff', offered in cooperation with The Mobility House Energy, will be available from summer 2026. Introduction in additional markets will follow gradually over the coming months and years.