Media Information

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Pilot phase for innovative DC wallbox has started

- → **Charge electric vehicles quickly with up to 22 kW**
- → **DC wallbox is the new edition to the charging family of Volkswagen Group Components**
- → **Trial operation expands charging infrastructure at five German sites**

Wolfsburg – The Volkswagen Group Components brand develops innovations for the electric mobility of today, tomorrow and beyond. One focus is on innovative charging concepts. Following flexible charging stations and mobile charging robots, the company now presents its newest product: the innovative DC wallbox, which charges up to 22 kW. Currently, real operation will be starting at five sites as part of a pilot phase. The goal is to gather practical experience in order to develop the DC wallbox quickly in the direction of series production.

Starting practical operation at five sites – the DC wallbox from Volkswagen Group Components. In the picture: Wolfsburg site with ID.4[1] from Volkswagen.

The charging family of Volkswagen Group Components: the prototype of the mobile charging robot, the DC wallbox and the flexible charging station

Mark Möller, head of the Technical Development & Electric Mobility division: “An extensive and needs-based charging structure is the key to the success of electric vehicles. That is why we are working on various approaches that enable customer-oriented, intelligent and flexible charging. Like our flexible quick charging station and the visionary prototype of a mobile charging robot, the DC wallbox is one of the future innovations of the DC charging family for electric vehicles.”

With the new wallbox, electric vehicles can be charged with direct current (DC) up to 22 kW – which is about double the speed of a typical wallbox working with alternating current (AC). In charging technology based on direct current, the electricity flows directly into the lead traction battery, provided that the electric vehicle features a combined charging system (CCS) charging

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port. Unlike systems based on alternating current, electric vehicles are charged independently of their integrated on-board chargers that limit charging capacity. Charging the lead traction battery with a direct current, on the other hand, increases the potential charging capacity when compared with alternating current. The charging process can therefore be significantly shortened.

As an innovative detail with prospects for the future, the DC wallbox will already be prepared for bi-directional charging. Thus, power can flow in two directions with the wallbox: the power stored in the lead traction vehicle battery can be returned to the grid, if necessary, thanks to an intelligent charging management. In future, electric vehicles that feature this function can, for example, serve as a power storage unit for private homes or as a buffer for the power grid.

In order to gather experience with the new product, Volkswagen Group Components has started the pilot phase at its own factory sites in Wolfsburg, Braunschweig, Hannover, Salzgitter and Kassel with 20 DC wallboxes. This also means that the existing charging infrastructure will be expanded at the factory grounds. As the number of electric vehicles increases, the need for charging options also increases within the Volkswagen Group.

[1)] ID.4 1ST Max – power consumption (NEDC) in kWh/100 km: 16.2; CO_2 emissions in g/km: 0; efficiency class: A+

This is Volkswagen Group Components.

As an independent corporate business unit under the umbrella of Volkswagen AG, Volkswagen Group Components is responsible for the development and manufacturing of strategic components for the Group's vehicle-producing brands. Around 75,000 employees work in over 60 plants at 48 production sites worldwide in five business areas – Engine and Foundry, Gearbox and Electric Drive, Chassis and Battery System, Seats and Battery Cells. They develop and manufacture vehicle components, shape future topics such as charging infrastructure and battery recycling – and thus make a decisive contribution to the value of the Volkswagen Group, its brands and products. Thomas Schmall is CEO of Volkswagen Group Components.

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