

Media Information

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Trade fair launch:

Near-series design study of the flexible quick charging station

- Volkswagen Group Components will launch its ‘power bank’ for electric cars in Geneva
 - Compact dimensions, flexible use: charge power where it is needed
 - Interim storage of renewable power for CO₂-neutral mobility
 - Near-series: production will begin in Germany in 2020
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Geneva – The Volkswagen Group Components brand will be showcasing the near-series design study of its flexible quick charging station at the Geneva Motor Show. With compact dimensions, it can be installed wherever there is demand or where there is still no charging infrastructure. Connected to the grid or even off-grid – the station can charge up to four electric cars simultaneously, based on the principle of a ‘power bank’, two with DC quick charging. The charging station can also be used as interim storage for eco-power, enabling CO₂-neutral mobility, however when connected to the mains power grid, it becomes a permanent charging point. Series production will start from 2020 onwards in Germany at the company’s Hanover site.



The flexible quick charging station can be installed almost anywhere and charge all kinds of electric vehicles – including the Volkswagen ID. BUGGY ¹⁾

Power bank for electric vehicles. The flexible quick charging station works on the principle of a ‘power bank’, as used by millions of travellers for their smartphones – just considerably bigger and more powerful. It has a charging capacity of up to 360 kWh. The batteries of electric vehicles will be charged in next to no time, thanks to DC quick charging technology with a charging capacity of 100 kW. When the energy content of the battery built into the charging station falls below a defined value, the depleted charging

station is simply replaced by a charged one. By contrast, when it is permanently connected to the mains power grid, the battery pack continuously and independently recharges itself.

Charging whenever, wherever. The near-series design study shows the compact dimensions of the charging station: with a footprint of only 120x100 cm, it can be positioned almost anywhere, a factor that will enable vehicles to be charged at almost any site in future – in the city, at festivals, at a stadium or at any other events wherever they may be.

Media Information

Charging station: a building block in the energy revolution. If the station is charged with renewably generated electricity – whether solar or wind energy – the new charging station allows renewable power to be temporarily stored for the first time, making electric mobility CO₂-neutral. Countries that feed a high proportion of renewably generated power into the grid, in particular, will for the first time be able to store a percentage of this energy using this charging station. At the same time, the interim storage of energy relieves pressure on the mains power grid at peak times.



The flexible quick charging station

Second life for electric car batteries. Technically, the charging station is based on the Volkswagen Group's Modular Electric Drive Matrix (MEB) and is designed to use its cell modules. Apart from the benefit of being scaled up to different capacity levels, the charging station will provide a second life for batteries from electric vehicles. After all, batteries are replaced when they lose their capacity to hold a charge over time and fall below a defined reduced residual capacity. If they then pass a detailed analysis, they can be recycled in a flexible quick charging station and thus reused, reducing the use of valuable raw materials in the long term.

Production location: Germany. The first flexible quick charging stations will be installed in a pilot project in the first six months of 2019 in Volkswagen AG's headquarters city of Wolfsburg and will underpin the set-up of a charging infrastructure in the city. Series production of the first quick charging stations will start from 2020 at the company's Hanover site.

Further information on the flexible quick charging station can be found here: <https://www.volkswagenag.com/flexible-charging-station>

¹⁾ Concept car

About Volkswagen Group Components.

As of January 1, 2019, Volkswagen Group Components is an independent business unit under the umbrella of Volkswagen AG responsible for the development and manufacture of strategic components for the vehicle-producing brands of the Group. In five business areas – engine and foundry, gearbox and electric drive, chassis, seats and e-mobility – 80,000 employees work in 61 plants worldwide at 47 production sites. They develop and manufacture vehicle components, shape future topics such as charging infrastructure or battery recycling, and thus make a crucial and valuable contribution to the Volkswagen Group, its brands and products. The Chairman of the Board of Management of Group Components is Thomas Schmall.

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