

chargeBIG – the AC charging solution powered by MAHLE

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chargeBIG – part of the MAHLE Group

MAHLE

Simply charge.

Charging the electric fleet – as fast as necessary, not as fast as possible.

The near future of mobility and transportation is electric. Battery electric vehicles and vans are also used in local transportation and distribution. Sales, logistics, and fleet vehicles that return to the depot, logistics hub, or other private parking areas after their trips must be charged accordingly. MAHLE offers a solution for charging the electric fleet with the charging infrastructure chargeBIG.

With the motto “Charging as fast as necessary, not as fast as possible.” chargeBIG offers scalable and affordable charging infrastructure for fleet operators and use cases of 18 to 100 or more electric parking spots. The charging solution for single-phase “AC Destination Charging” with charging power of up to 7.2 kW consists of a central and intelligent control unit, the charging cabinet, and charging points with fixed mounted type 2 charging cables. Charging points with up to 22 kW can be integrated in the solution. The intelligent charging system and design-to-cost approach prevent investment in the expansion of grid connections and save costs and time in the construction of the charging infrastructure. The short installation time and the option of easy removal are especially important in rented properties. The available charging power is distributed to the parked vehicles through dynamic, phase-individual load management, for example when charging overnight in a depot or logistics hub. It is possible to prioritize charging processes during the day for interim charging. The fast charging points with 22 kW are excluded from load management so corresponding capacities are kept free for important recharging processes.



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Sustainability plays a major role at FUCHS, and this is also reflected in our new building in Mannheim on Einsteinstraße: of 278 passenger car parking places, 100 are equipped with electric charging points.

FUCHS Project Management



With the chargeBIG system, it is possible to construct many charging points despite a limited electric capacity in the grid infrastructure at the location. The existing grid connection is used optimally and intelligently. Expensive peak outputs are also avoided. By customer request, the load management communicates with other consumers or producers, such as a photovoltaic system in the grid. chargeBIG uses the electric vehicles as a controllable load.

Are you planning to convert your fleet to electric vehicles and install suitable charging infrastructure that can be integrated into daily operations and grow in proportion to demand?

The reliable and expandable charging solution chargeBIG allows optimal integration into existing operating processes: from vehicle cleaning to the assignment of vehicles to users to parking logic.

Maximum flexibility is possible in terms of unlocking the charging points. Charging points may be unlocked without an authentication process or through an app via QR code scan or near field communication (NFC). The chargeBIG app for iOS and Android or the universal web app can be used on the driver's device or through the company smartphone. Integration into fleet management systems or individual interfaces is possible for a wide variety of software applications. Regular reporting enables the traceability of charged kWh for each user, vehicle, and location.

Combining various user groups (fleet, employees, public, etc.) on the installed charging hardware is also possible in the chargeBIG system. chargeBIG conforms to German measures regulations and therefore charging power can be billed to a third party for a fee. Charging processes are paid ad hoc using common payment methods such as credit cards or PayPal.

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From design to initiation, MAHLE chargeBIG was available to FUCHS as a general contractor. As part of the operation, chargeBIG takes on the maintenance as well as the development of charging processes with the users.

MAHLE chargeBIG Project Management

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We provide our employees with the opportunity to charge their company cars on our premises. Our employees without company cars also receive the option to charge at the workplace as an additional incentive to transition to carbon-neutral mobility

FUCHS Project Management

The app offers returning users the option to create a user account and store a payment method. This way, the charging process can be started with a few clicks. For fleet customers, one-time users, or charging company cars at an employer site, chargeBIG also offers access codes for activation and cost center billing. Through the chargeBIG dashboard, users and access codes can be managed, current charging processes and potential errors at the charging points can be viewed, tariffs for the charging current can be defined, energy data can be read out, and reports can be downloaded.

With a qualified partner network of specialist electricians, chargeBIG, as a general contractor, carries out the annual required maintenance for charging points, as well as reliable service and support for B2B and end users. Since the hardware and software in the chargeBIG system is offered from one source, any errors that occur can be resolved quickly and remotely.

With its complete portfolio, chargeBIG is the provider of charging hardware and load management, charging point operators, and mobility service provider. At the customer's request, chargeBIG offers the implementation of a full-service solution for individual charging needs, including professional advice, installation, maintenance, service, legal settlement and operation of charging points.





More information can be found at
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