

Press release

13 December 2018

"FastCharge" research project

Ultra-high-power charging technology for the electric vehicle of the future

Stuttgart/Jettingen. Charging electric vehicles may soon be as quickly completed as filling up with fuel is today, thanks to an interim result from the "FastCharge" research project. The research consortium presented a prototype for a charging station with an output of up to 450 kW yesterday in Jettingen-Scheppach, located near the A8 motorway between Ulm and Augsburg. The new charging station is suitable for electric models of all brands with the European standard Type 2 variant of the widely used Combined Charging System (CCS), and is now available for use free of charge. A Porsche research vehicle with a net battery capacity of approximately 90 kWh achieved a charging capacity of over 400 kW on the new charging station, allowing for charging times of less than 3 minutes for the first 100 km range.

The "FastCharge" research project

Initiated in July 2016, the "Fast Charge" research project has received €7.8 million in funding from the German Federal Ministry of Transport and Digital Infrastructure. The implementation of the funding guidelines is being coordinated by the German National Organisation Hydrogen and Fuel Cell Technology (NOW). The industrial consortium includes automotive manufacturers the BMW Group and Dr. Ing. h. c. F. Porsche AG, as well as operators Allego GmbH, Phoenix Contact E-Mobility GmbH (charging technology) and Siemens AG (electrical engineering).

Phone +49 (0)711 911-20764 Email mayk.wienkoetter@porsche.de

1 of 3

Press release 13 December 2018

Fast, convenient charging solutions increase the attractiveness of electromobility; in-

creasing the available charging capacity to up to 450 kW allows charging times to be

significantly reduced. The charging capacity of the new FastChargers is three to nine

times as high as what is currently possible with DC rapid-charging stations. The

"FastCharge" project examines what technical conditions need to be fulfilled in terms

of vehicles and infrastructure in order to allow extremely high charging capacities to be

applied.

The charging station prototypes presented use the charging plug from the tried-and-

tested Combined Charging System (CCS) in the Type 2 variant that is standard for

Europe. This charging standard has already proven itself in a wide range of electrified

vehicles and is used in many parts of the world. The two Jettinger charging stations

are currently available for use with all CCS-enabled vehicles, free of charge. Depend-

ing on the model of vehicle, the new ultra-fast charging station can be used for vehicles

with 400-volt and those with 800-volt battery systems. In each case the charging ca-

pacity provided automatically adjusts to the vehicle's maximum permitted charging ca-

pacity.

The Porsche research vehicle can achieve a charging capacity of 400 kW initially – a

first for a passenger car. An innovative cooling system makes this possible, by ensur-

ing even, gentle temperature control in the battery cells.

Electric mobility with the soul of a Porsche sports car

Porsche is set to invest more than €6 billion in electric mobility by 2022, targeting both

plug-in hybrids and fully electric vehicles. This means the company has more than

doubled its previously planned expenditure for electromobility from around €3 billion to

over €6 billion. Of the additional €3 billion, around €500 million will be used to develop

the models and versions in the Taycan range. Porsche will also be investing around

Dr. Ing. h.c. F. Porsche Aktiengesellschaft Porscheplatz 1 70435 Stuttgart, Germany Press and Public Relations Product Communications Mayk Wienkötter Phone +49 (0)711 911-20764 Email mayk.wienkoetter@porsche.de

2 of 3

Press release 13 December 2018

€1 billion in the electrification and hybridisation of its existing product range, hundreds of millions in the expansion of its sites, and around €700 million in new technologies, charging infrastructure and smart mobility.

Image material available in the Porsche Newsroom (newsroom.porsche.de) and in the Porsche media database (presse.porsche.de).

3 of 3

Mayk Wienkötter Phone +49 (0)711 911-20764 Email mayk.wienkoetter@porsche.de