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Nürtingen, 29. September 2020

On 21 October, the VW ID.3 marathon test drive around Germany will make a stop at the globally unique HPC Fast Charging System from ADS-TEC in Nürtingen

The charging event will be attended by Baden-Württemberg's Minister of Transport, Winfried Hermann, who will be given the chance to learn more about the special features of the state's High Power Charging Station and to test it with his official car.

The High Power Charging Station in Nürtingen – with two charging stations and buffer storage for the distribution grid – will be welcoming a well-renowned visitor. On the one hand, the station is an integral part of a fully electric long-distance test drive involving a number of public bodies, which is being held in order to raise awareness regarding today's mobility revolution. On the other hand, this meeting offers the Ministry of Transport an opportunity to gain some insight into the cutting-edge technology from Baden-Württemberg.



Rainer Zietlow and Dominic Brüner with the new VW ID.3 Pro S
(Photo: Hochschule der Medien Stuttgart)

On 28 September, the Mannheim-based specialist agency CHALLENGE4 will start a 20,000-kilometre marathon test drive across Germany – from southern Oberstdorf to the German island of Sylt. The drivers Rainer Zietlow and Dominic Brüner will cover the near 20,000 kilometres in a new VW ID.3 Pro S with a 77 kilowatt-hour battery. The network of Fast Charging Stations will play a crucial role in this. The tour plans to cover all VW dealers and charging stations with more than 60 kilowatts of power. One particular highlight is the planned stop at an SOS Children's Village in Bernburg/Saale, which Rainer Zietlow is supporting with his tour.

Another highlight will be the stop in Nürtingen. Here, the test drivers will meet with Baden-Württemberg's Minister of Transport, Winfried Hermann, and charge their ID.3 using the HPC Fast Charging Station at the ADS-TEC company headquarters. The station fits perfectly with the concept of a world record tour, because it is also a world first in its own right, especially when it comes to its performance in relation to its size. Furthermore, the technology offers an alternative to the limited-power distribution grid in all places where fast charging would not actually be possible, due to the fact that the output of the low-voltage distribution grid is naturally limited.

But where does the high energy output come from, if not directly from the grid? The answer lies in a small white square box, barely more than a metre tall, with a comparable average output equal to 320 single-family dwellings. It contains a sophisticated battery system with a capacity of 140 kilowatt hours, which is able to generate the necessary high-energy output by continuously charging itself slowly at the available low-grid connection and releasing the accumulated energy in a matter of minutes if required. Two charging stations can be installed at a flexible spatial distance, each of which can then be charged with up to 320 kilowatts – more than any current electric vehicle can accommodate. By way of comparison: The minister's Audi e-tron can handle a maximum of 150 kilowatts of charging power and the ID.3 can take 125 kilowatts. The Porsche Taycan is currently the only electric vehicle that, at 800 volts, can take almost 320 kilowatts. In future, more vehicles will use 800 V systems and process high charging capacities. The system is, therefore, "future-ready" even today.

The ADS-TEC charging solution enables you to recharge your batteries as quickly as possible anywhere on the normal distribution grid, however with a key difference when compared with all other Fast Charging Stations: It can be installed anywhere on the distribution grid – without the time-consuming development of a medium-voltage connection, without tearing open roads or building large transformer stations and switchgears, for which the corresponding costs must then be accounted for in the form of energy prices. In addition to the high, one-time and ongoing costs for network expansion, the time saved through lengthy approval processes for medium-voltage systems and the unbeatably small size are decisive arguments for locations such as in city centres or residential areas.

Additional pluses include the fact that charging is quiet despite the mega-power it produces, and that the system is characterised by a high-quality design. In a few minutes, an e-vehicle is ready to continue driving and makes space for the next vehicle, which can be charged immediately afterwards without burdening the distribution grid. On top of that, and in accordance with existing regulations, the booster can be used to store and make available electricity generated by PV or wind systems.

A selected specialist audience has been invited to the event followed by a press conference in Nürtingen, in order to learn more about the added value on offer from ADS-TEC Managing Director Thomas Speidel, and to see the high-performance technology "Made in Baden-Württemberg" in action. The live presentation will take place outdoors and the subsequent press conference will take place in the spacious interior in compliance with the current social distancing and hygiene regulations.

The marathon test drive can be followed live at www.id3-deutschlandtour.com. Students from the Stuttgart Media University (HDM) will deliver text, photos and videos of the route every day.

Sponsors of the marathon test drive are: ADS-TEC Energy, Alpitronic, CAR-connect, E.ON Drive, has-to-be gmbh, Infineon Technologies, Intercity Hotel, MOON, Steigenberger Hotels & Resorts, Tank & Rast, We Charge as well as Volkswagen AG.



HPC Fast Charging System for the distribution network at the ADS-TEC headquarters in Nürtingen (Photo: ADS-TEC)

ADS-TEC – Technology for Professionals – 100% Made in Germany

ADS-TEC Energy GmbH is a company of the ADS-TEC Group with an investment interest by BOSCH. The medium-sized family company is headquartered in Nürtingen near Stuttgart and has a production site near Dresden.

Based on its decades of experience with lithium-ion technologies, ADS-TEC Energy GmbH develops and produces battery storage solutions and fast charging systems – including their energy management systems. For private houses, public institutions and commercial operations, the application range starts at 19 kilowatt hours of storage capacity. The scalable battery storage systems enable industrial and infrastructure solutions, as well as self-sufficient energy supplies right up to the multi-megawatt range. The newly developed fast-charging technology for e-mobility is a pioneering development, unique to the world in terms of its compactness.

The high levels of quality and functionality that characterise the storage technology are attributable to an extraordinarily high level of integration. All components, except for the cells, originate from our own company.

The Managing Partner of ADS-TEC Holding GmbH Thomas Speidel is also the CEO of ADS-TEC Energy GmbH and President of the German Association of Energy Storage Systems (Bundesverband Energiespeicher Systeme e.V., BVES) in Berlin. Through initiatives in numerous projects funded at federal and state level, ADS-TEC remains in close contact with companies and research institutions throughout the entire value chain.

Press contact

ads-tec Energy GmbH
Jannik Lorenz
Heinrich-Hertz-Str. 1
72622 Nürtingen
Tel. +49 7022 2522-2305
Fax +49 7022 2522-400

presse@ads-tec.de, www.ads-tec.de