High Voltage Guaranteed
Vitesco Technologies Wins Major Order for 800-volt SiC-Technology in Electric Vehicles

› 800-volt means shorter charging times and improved efficiency
› Series production on the new Hyundai Motor Group electric platform
› 800-volt inverter uses silicon carbide semiconductors for optimum efficiency

Regensburg, March 24, 2021. Vitesco Technologies, a leading international supplier of modern drive technologies and electrification solutions, has won a major order with a sales volume in a triple-digit million Euro amount for an innovative high-voltage component. For the first time ever, the company will be supplying an 800-volt inverter with silicon carbide technology in significant quantities for the new electric vehicle platform of the Hyundai Motor Group. “This partnership demonstrates once again that Vitesco Technologies meets the highest requirements with innovative key components for electric vehicles. In this way, our company is contributing toward making the electric mobility of the future even more efficient, convenient and thus also more sustainable,” says Thomas Stierle, Executive Vice President Electrification Technology business unit at Vitesco Technologies.

Up until now, most electric vehicles have used a voltage of 400-volts for the drive. Only a few battery-powered premium models and sports cars have an 800-volt architecture. The E-GMP electric car platform from the Hyundai Motor Group, which was presented just a few weeks ago, also works at a voltage of 800-volt. This brings several advantages for drivers of electric vehicles: For example, the doubled voltage significantly shortens the battery’s charging time. Depending on capacity, it should be possible to charge the battery to 80 percent in less than twenty minutes, depending on battery capacity. In addition, the 800-volt electrical system enables a higher power output. It also significantly improves the efficiency of the electric drive.
Eleven new electric models with 800-volt technology by 2025

Vitesco Technologies uses semiconductors made from silicon carbide for the 800-volt inverter, which significantly increase the efficiency. This technology is the only way to harvest the full potential of the high-voltage architecture while at the same time providing maximum efficiency.

With the new E-GMP platform, Hyundai Motor Group is underlining its intention to launch a total of 23 battery-powered models by 2025, 11 of which will be exclusively battery-powered, and to sell more than one million vehicles in this drive category worldwide.

For Vitesco Technologies, the major order for the 800-volt inverter is confirmation of the electrification strategy that it has been pursuing up until now and underlines the pioneering approach as a supplier of choice for e-mobility solutions. The company is therefore pushing ahead with the development and optimization of other central components for electric vehicles based on 800 volts – from DC/DC converters to battery management right through to charging systems.

Vitesco Technologies is a leading international developer and manufacturer of modern drive technologies for sustainable mobility. With intelligent system solutions and components for electric, hybrid and combustion drive trains, Vitesco Technologies makes mobility clean, efficient and affordable. The product portfolio includes electric drives, electronic control systems, sensors and actuators, as well as exhaust gas aftertreatment solutions. In 2020, Vitesco Technologies achieved a turnover of €8 billion and employs more than 40,000 people at around 50 locations. Vitesco Technologies is headquartered in Regensburg, Germany.

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