

# Stadtwerke Münster Introduces Electric Bus Fleet Capable Of 500 kW Charging

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VDL Citeas Electric for Stadtwerke Münster

Stadtwerke Münster in Münster, Germany has a new fleet of five all-electric buses from VDL bought through two separate projects.

Environmental topics seem to be very important to Stadtwerke Münster, as earlier the company installed a solar system on the depot.

As always, it'll be interesting to see how the buses perform for the full shift or two in terms of range.

We don't know the range, but there is no need for long range when buses can be fast charged from 500 kW chargers at the two end points of the line. VDL implemented a unique charging system with a robotic arm that automatically connects to the bus charging inlet.



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*"The VDL Citeas Electric delivered in Münster in connection with the SEB and ZeEUS projects feature an IFAS rapid*

charging system on the side of the roof of the bus. IFAS (Institute for Fluid Power Drives and Controls) is part of the RWTH Aachen University of Technology, as is the ISEA (Institute for Power Electronics and Electrical Drives) which coordinated both Münster projects. A robotic arm that emerges from the roof of a bus shelter automatically makes contact with the charging system of the bus. With this system up to 500 kW of power can be charged within 4-6 minutes. The firm Pintsch Bamag developed the electronics for the power system. The Citea for the SEB project is fitted with a Hoppecke battery. The Citeas Electric taking part in the ZeEUS project are each fitted with a Microvast battery. All 5 of the electric buses will be put in service on line 14, which according to the plans will make this line fully electric. The rapid charging stations are located at the two end points of this line. An additional rapid charging station is present at the bus depot.”



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