



Press Release

Dresden,
April 26, 2018

Autonomous – Connected – Electric

Unveiling an e-truck for fully-automated operation in gated areas

At the picturesque Landshut castle in Bernkastel-Kues, numerous guests had been invited to follow a very special event: The new E 180 AX was presented to the public for the first time and officially handed over to the Fraunhofer IVI.

Not long ago, it was still an 18-ton diesel truck by Mercedes, and today it runs 100 percent on electric energy. In cooperation with the EFA-S Elektrofahrzeuge Stuttgart GmbH, the **ORTEN Electric-Trucks** company re-equipped the vehicle accordingly within just a few months.

The electric engine by ARADEX is supplied with a permanent power of 305 kW by the lithium-iron-phosphate battery with an energy content of 244 kW/h. The e-truck has a range of approximately 200 kilometers with a charging time of about 11 hours.

The event marked an important milestone within the *AutoTruck* project. This 3-year project – funded by the German Federal Ministry for Economic Affairs and Energy (BMWi) under its program »New vehicle and system technologies« – is aiming at the development and demonstration of technologies for the fully-automated cooperative operation of commercial vehicles in suitable gated areas. Outside of these areas, the vehicle can still be operated by a driver.

The project manager **Götting KG** is responsible for high-precision positioning and the implementation of a contactless SIL2 safety system for collision avoidance. The company **WABCO Development GmbH** contributes an innovative system for wireless communication between the vehicle and the infrastructure (V2X).

The **Fraunhofer IVI**'s tasks in the project include the implementation of autonomous driving functions as well as maneuver planning in real time and a web-based yard operating system. Towards the end of the project lifetime in fall 2019, a demonstration is planned. The necessary yard will be provided by the **Emons Spedition GmbH**.

The consortium is supported by its associated partners:

- Deutsche GVZ-Gesellschaft,
- Freight-transport center Dresden and
- P&G Service Company NV.

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