



## **MAN electrifies inner-city logistics**

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**MAN Truck & Bus is participating in the EIT Urban Mobility project ZEUS (Zero Emission off-peak Urban deliveries) by deploying its eTGM electric truck for the distribution of goods in city centres. The test runs carried out in the city centre of Munich show what the goods transport services of the future are to look like.**

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- **Project objective: To deploy electric trucks as an alternative distribution option during off-peak hours in order to reduce traffic levels during peak hours and to lower emissions**
- **MAN proves that electric trucks can be used effectively at sensitive times of the day by carrying out its own test runs in Munich**
- **The MAN eTGM emits significantly less noise compared to diesel variants**
- **Moving inner-city deliveries to off-peak hours makes the logistical process more efficient without affecting residents**

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The city of Munich, like many other metropolitan areas, is being seriously affected by growing levels of traffic and air pollution. Transforming the way goods and merchandise are delivered to the city centre would lead to positive effects on many levels. The solution is to deliver goods to retailers during off-peak hours using electrically powered trucks. "Every scientific study shows that moving inner-city deliveries to off-peak hours would mean that logistical processes could be executed more quickly and that the impact on all other traffic would be significantly lower than during peak hours," explains Clemens Baumgärtner, Spokesperson for Labour and Economic Development for the City of Munich.

This was also confirmed during the test runs that MAN conducted in collaboration with the City of Munich last November as part of the ZEUS project.

MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and transport solution providers, with an annual revenue of some 11 billion euros (2019). The company's product portfolio includes vans, trucks, buses/coaches and diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON SE and employs more than 37,000 people worldwide.



The results of these test runs are now available. The test runs carried out with the fully electric MAN eTGM distribution truck revealed a time saving of 15 to 30%, which can be achieved by rescheduling the time window for inner-city deliveries to off-peak hours. At the same time, it was possible to improve punctuality and planning reliability to a score of almost 100%. Another aspect is the clearly noticeable reduction in noise when electric trucks are used. This makes the shift to off-peak hours feasible in the first place, as residents are not affected. “By carrying out these test runs with the MAN eTGM in Munich, we were able to confirm that the electric motor brings about a reduction in noise. Perceived noise is reduced by at least a quarter, and in some cases by half, especially at speeds below 30 km/h,” reports Dr Christoph Jessberger, who works in Predevelopment at MAN Truck & Bus and oversaw the ZEUS project.

The ZEUS project is part of the EU’s EIT Urban Mobility initiative. The objective of the ZEUS project is to model and demonstrate various applications that use quiet, urban logistics processes during off-peak and night-time hours in order to identify realistic opportunities for inner-city deliveries outside peak hours while continuing to meet urban supply requirements.

The tests carried out as part of the ZEUS project show that the distribution system became significantly more efficient, delivery time was shortened, punctuality improved and no bothersome noise emissions were caused by vehicle operation. A key challenge that needs to be addressed is the fact that retail businesses would need to restructure their goods receiving operations to off-peak hours, which could result in increased costs for said businesses.

The bottom line: Quiet off-peak deliveries will help cities become cleaner and less congested at a faster rate than would otherwise have been possible. MAN is contributing to this development with its products and its dedication.

Captions:

MAN-eTGM-Munich\_Night\_EIT\_zeus\_01.jpg

MAN proves that electric trucks can be used effectively at sensitive times of the day by carrying out its own test runs in the city center of Munich.



MAN-eTGM-Munich\_Night\_EIT\_zeus\_02.jpg

MAN Truck & Bus is participating in the EIT Urban Mobility project ZEUS by deploying its eTGM electric truck for the distribution of goods in city centres.

MAN-eTGM-Munich\_Night\_EIT\_zeus\_03.jpg

The MAN eTGM emits significantly less noise compared to diesel variants.

MAN-eTGM-Munich\_Night\_EIT\_zeus\_04.jpg

Moving inner-city deliveries to off-peak hours makes the logistical process more efficient.

Christoph-Jessberger.jpg

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Clemens-Baumgaertner.jpg

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