



## **Premiere in Munich: MVG uses MAN Lion's City E in its operations**

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**With immediate effect, the MAN Lion's City E is reliably taking Munich residents and visitors to the Bavarian capital to their destination on the MVG museum bus line. The new all-electric bus from MAN is thus being used in regular-service operations for the first time in Munich. During the field trial, public transport operator Münchner Verkehrsgesellschaft (MVG) is particularly focussed on the range.**

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- **MVG uses Lion's City E in regular-service operations on bus line 100 in Munich city center**
- **In the 12-metre version, the MAN Lion's City E has capacity for up to 88 passengers and a range of up to 270 km in favourable conditions**
- **As part of the e-mobility roadmap, MAN is launching intensive field trials with the new electric bus in order to gain practical experience in regular-service operations**

The MAN Lion's City E: well received with passengers, getting them reliably to their destination – now in Munich, too. The electric bus is driving on the MVG "Museenlinie 100" bus route between the Hauptbahnhof and Ostbahnhof stations as part of a field trial. "This is a première as the Lion's City E is being used in regular-service operations in the Bavarian capital Munich for the first time," says Rudi Kuchta, Head of Business Unit Bus at MAN Truck & Bus. The aim of MVG, the public transport operator in Munich, is to gradually change their fleet of buses over to emission-free drives. For this reason, Stadtwerke München (SWM) and MVG maintain innovation partnerships with different manufacturers. The companies also regularly test new electric buses. "We are delighted that MAN is testing one of its first electric buses on our network with us as the transport provider. We are looking forward to seeing how it fares and what insights we can gain from it.

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.



Our aim for the next ten years is clear – we want to distance ourselves from oil, and move towards zero emission operations. For this, we need reliable electric buses that have a long range,” says MVG boss Ingo Wortmann.

### **Fully electric 12-metre solobus on the streets of Munich**

In Munich, the 12-metre version of the MAN Lion’s City E is being used. The solobus retains the colours and equipment of MVG completely, so it is instantly recognisable as a vehicle from the Munich public transport operator. Thanks to the three doors, a fast flow of passengers is ensured on the popular bus route. In total, the electric bus can accommodate up to 88 passengers. The design of the MAN all-electric city bus, which has won numerous awards, introduces dynamic new styling to the Munich cityscape which makes it a real eye-catcher. An impressive feature inside the vehicle is the optimised seating area in the rear, resulting from the omission of the engine tower. The developers used their creative freedom to create more appealing light conditions and install four additional seats here.

### **Range at the top of the list for MVG**

The electric bus is driven by a central motor on the rear axle. This is designed more simply and in a more accessible manner than motors in close proximity to the wheel hubs. The same drive axle is also installed as in the other models of the new Lion’s City generation. This provides advantages when it comes to maintenance work and the total cost of ownership (TCO). In the solobus, the fully electric driveline produces between 160 kW and a maximum of 240 kW. The energy for this comes from six lithium-ion battery modules with 480 kWh of installed capacity. This allows the Lion’s City E to reliably ensure a range of 200 km (and up to 270 km in favourable conditions) over the entire service life of the batteries. With a charging power of up to 150 kW, the bus can be completely charged in less than three hours, meaning it is quickly ready for operation again.

“The topic of range is particularly important for SWM and MVG. Also how this behaves depending on the number of passengers and the climatic conditions,” says Kuchta and adds: “We are optimistic that MVG and MAN will be very happy with the results. After all, during development of the Lion’s City E, we were able to use the sophisticated battery cell technology from the



Group. At the same time, the batteries are adapted to the particular requirements of city bus use. MAN's own expertise is also demonstrated by the sophisticated temperature management system which ensures particularly good availability no matter the time of year."

**Powerful batteries, low weight, efficient air conditioning**

In the future, MVG no longer wants to order any combustion-engine models for its bus fleet. This means that developments when it comes to electric buses are even more important to the transport company. "What is important now is powerful batteries, a low weight for the vehicles, and as much as possible efficiency when it comes to the heating and cooling systems," says MVG boss Ingo Wortmann.

MVG generally has five electric buses in use on line 100. More have been ordered and are expected to arrive in Munich this year. By 2021, MVG's fleet of electric buses will comprise at least 26 vehicles. The buses will use 100% green electricity – just like the underground and tram systems.

**MAN e-mobility roadmap: 15 test vehicles in use in 5 countries**

As part of the e-mobility roadmap, MAN has launched intensive field trials with the new electric bus in order to gain practical experience in regular-service operations. In 2020, the demo fleet of 15 electric buses will then be running customers' services in five European countries (Germany, Spain, Luxembourg, Belgium, France). Back in December 2019, MAN Truck & Bus delivered the first two 12-metre electric buses to the transport operators Hamburger Hochbahn AG and Verkehrsbetriebe Hamburg-Holstein GmbH for everyday use in the Hanseatic port city. MAN will also hand over the 18-metre electric bus to the transport operators Kölner Verkehrs-Betriebe AG (KVB) in Cologne and Transports Metropolitans de Barcelona (TMB) in Spain, in order to conduct the planned practical testing there, too. The first mass-produced MAN Lion's City E 12-metre solo-version buses are set to be delivered to customers in the fourth quarter of 2020. The fully electric Lion's City E in the articulated bus version will follow approximately six months later, and should go into series production in the first half of 2021.

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“We are particularly proud that one of the first new MAN electric buses is starting its planned regular operation on the streets of Munich,” says Rudi Kuchta. The subject of electrification has preoccupied and driven MAN for many years now. “Back in 1972 at the Olympic Games, top athletes were being transported in MAN electric buses in an environmentally friendly way, and ten years ago, we handed over our first hybrid bus that was ready for series production to the city of Munich. The launch of regular operation of the new Lion’s City E on line 100 is now a further milestone on MAN’s eMobility roadmap,” highlights Kuchta.

P\_Bus\_EOT\_LionsCityE\_Muenchen-01.jpg

P\_Bus\_EOT\_LionsCityE\_Muenchen-02.jpg

P\_Bus\_EOT\_LionsCityE\_Muenchen-03.jpg

P\_Bus\_EOT\_LionsCityE\_Muenchen-04.jpg

P\_Bus\_IOD\_LionsCityE\_Muenchen-01.jpg

Caption:

At home in Munich: the new MAN electric bus is now in regular operation on the popular MVG “Museenlinie 100” bus route between the Hauptbahnhof and Ostbahnhof stations.

P\_Bus\_EOD\_LionsCityE\_Muenchen-01.jpg

P\_Bus\_IOD\_LionsCityE\_Muenchen-03.jpg

Caption:

As a result, the fully electric Lion’s City E impresses with a reliable range of 200 km (and up to 270 km in favourable conditions) over the entire service life of the battery.

P\_Bus\_EOD\_LionsCityE\_Muenchen-02.jpg

Caption:

The award-winning design of the fully electric city bus introduces dynamic new styling to the cityscape which makes it a real eye-catcher. What’s more, model-specific design elements emphasise the vehicle’s special feature: its electric drive.

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P\_Bus\_IOT\_LionsCityE\_Muenchen.jpg

Caption:

An impressive feature inside the bus is the optimised, light-flooded seating area in the rear, resulting from the omission of the engine tower. The MAN developers used their creative freedom to establish more appealing light conditions and install four additional seats.

P\_Bus\_IOD\_LionsCityE\_Muenchen-02.jpg

Caption:

The solobus retains the colours and equipment of MVG completely and impresses with comfort and safety for the passengers.