

KNOWING WHAT IT'S ALL ABOUT.

Providing optimum drive technology for each area of application is and always has been a key aspiration for MAN.

Thanks to our many years of experience in the field of hybrid technology for buses, together with synergies from the passenger car sector from which we benefit as part of the Volkswagen Group, we are best placed to provide our customers with a technically advanced and economically viable concept for electric mobility. This concept not only includes electric buses, but all key parameters as well, such as infrastructure and associated services and support. This is because we see ourselves not only as a manufacturer, but also as a partner for cities, municipalities and operators with regard to electric mobility.

Modular zero-emissions concept.

Our intensive commitment to developing a sustainable, electric solution is already showing positive results. In order to offer transport companies the flexibility that they are used to in terms of route configuration and capacity planning, at MAN we are focused on a modular zero-emissions concept. The concept by MAN makes it possible to select and combine charging technology and storage systems according to requirements. This means that everyone can find the ideal solution for them – electric mobility made to measure!

→ Why electric mobility?

- Scarcity of fossil fuels
- Reduced pollutants and noise emissions in towns and cities
- Increasingly volatile fuel prices
- Increasingly strict CO₂ legislation (Paris 2°C climate targets)
- Environmentally friendly local public transport improves the image of cities
- Reducing the CO₂ footprint is an important objective of the MAN Climate Strategy
- Noise-free transportation is a key aspect of quality of life in a modern city with increasing urbanisation and therefore increased urban traffic

EMISSION-FREE FOR THE FUTURE.

Modular electric mobility from MAN.



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MAN Truck & Bus – A member of the MAN Group



ELECTRIC MOBILITY ENSURES QUALITY OF LIFE.

Cities and their traffic volumes continue to grow all the time. Worldwide. In order to make sustainable urban transport a reality, measures are needed that consistently reduce the increasing pressures caused by harmful exhaust emissions and noise. As a leading international commercial vehicle manufacturer and a supplier of innovative drive concepts, we at MAN want to make a decisive contribution towards achieving this goal. Alongside alternative drives such as gas and hybrid drives, we are also intending to focus more closely on electric mobility in the future. We have always strived to develop solutions that help to sustainably reduce energy consumption, pollutants and traffic emissions. These developments aim to provide future benefits for all – public transport operators, passengers, municipal authorities and, of course, the environment.



THE CONCEPT BY MAN.

At MAN, we are convinced that the success of electric mobility largely depends on the economic viability of the concept.

Or, put another way: An electric bus, together with the required infrastructure, service and support, should not only be environmentally friendly, but also economically worthwhile. We are therefore offering our customers a modular concept with many choices and combination options from which it is possible to find the perfect solution for any requirement or application. This relates to the model variant, e.g. solo or articulated buses, and the drive power of the buses as well as the charging technology and the number of storage modules.

Electric mobility made to measure.

<p>DC</p>	<p>→ Depot charging.</p> <ul style="list-style-type: none"> Useful for longer downtimes (5 – 8 hours) and if there is space for the charging infrastructure inside the depot Higher level of flexibility in deployment since intermediate charging and the corresponding charging infrastructure on the line is not required Potential to use night-time excess electricity capacity 	<p>SOC</p>	<p>→ Transport Solutions.</p> <p>The MAN Transport Solutions team offers tailored consultancy to suit the vehicle's deployment scenario and draws up bespoke concepts and custom solutions. As such, you benefit from reliable use of the new drive systems and your vehicle fleet as well as optimised costs. Our aim is to offer the perfect product for each deployment scenario with tailored solutions for charging management, energy supply and maintenance.</p>
<p>AC</p>	<p>→ Storage modules.</p> <ul style="list-style-type: none"> The number of storage modules can be individually combined to suit the range and transport capacity 		<p>→ Heating and air conditioning technologies.</p> <ul style="list-style-type: none"> Options of purely electric, using environmentally friendly heating fuel, or both combined as a hybrid heater

MAN AS YOUR ALL-ROUND PARTNER FOR ELECTRIC MOBILITY.

We act as a reliable partner to cities, municipalities and public transport operators as they switch to electric mobility solutions, in order to jointly find the best configuration for the specific deployment profile.

This not only includes finding the relevant vehicle portfolio including appropriate charging variations, storage or heating and air conditioning technologies, but also cost-effective solutions for the charging infrastructure and the accompanying services and support.

As is to be expected from MAN, you can also rely on us in the area of electric mobility. Solutions that are flexible and tailor-made to your requirements and that offer you the versatility, interoperability and planning security that you need take the highest priority for us. The added value for your company is then clear to see!

Standardisation as the key to success.

Important prerequisites for sustainable electric mobility in cities are standardised interfaces and charging technologies. In order to get closer to our goal of clean, emission-free city bus transport, MAN is involved in the relevant committees of the VDA (German Association of the Automotive Industry), the VDV (Association of German Transport Companies), the UITP (International Association of Public Transport) as well as the European Committee for Electrotechnical Standardization CEN/CELEC, and actively contributes to the "eBusCS" project that is supported by the German Federal Ministry for Economic Affairs and Energy.

Zero-emission concept bus



Fully electric battery bus will go into series production before 2019



Depot charging at the depot



Flexible AC-Wallbox loading in the workshop

