



A 'FULL ELECTRIC' LINE IN COLOGNE

The transport company Kölner Verkehrs-Betriebe AG (KVB) converted the bus line 133 in Cologne to fully electric. This is Germany's first 100% electric bus line in operation. With a length of about 7 km and 13 stops, line 133 connects the Cologne train station with the district of Zollstock. VDL Bus & Coach delivered eight articulated Citea SLFA Electrics in preparation for this transition. The Citea SLFA Electric is fitted with a fast charge system through a pantograph positioned

above the 2nd axle. Batteries are charged at both final stops (5-10 minutes). The charging power is 250 kW. The fully charge is done during the night. According to data from KVB, replacement of the diesel buses with electric buses will reduce the CO2 emissions by approximately 520 tonnes per year.

VOLVO ELECTRIC HYBRIDS IN SWEDEN

The city of Värnamo, southern Sweden, will electrify the entire bus fleet by autumn 2017. In this contest, four Volvo 7900 Electric Hybrid buses have been ordered. The four electric hybrid buses and their ABB charging station will be delivered as a turnkey solution, with Volvo assuming responsibility for maintenance of the buses and their batteries at a fixed monthly cost. The Volvo 7900 Electric Hybrid bus is powered by electricity for about 70% of the route. It is fitted with electric motor, batteries and a small diesel engine. The batteries are rapid-charged in about 3-4 minutes through a conductive ABB opportunity charging via pantograph, with communication between bus and charging station via WiFi. The buses operating in Värnamo will run on renewable electricity and renewable HVO fuel, cutting carbon dioxide emissions by 90 per cent.



BYD ELECTRIC BUSES IN HOLLAND

The Chinese manufacturer of electric buses BYD and the Dutch subsidiary of Transdev, Connexxion, signed a contract in Hilversum, the Netherlands, for the supply of eight pure electric ebuses. The agreement calls for the in-service support of the buses by BYD for a 10-year period. The ebuses will enter service in Haarlem city from September 2017. Each bus is expected to cover 85-90,000 km a year. These are the first all-electric buses to

be ordered by Connexxion for service in the capital city of North-Holland, Haarlem. Connexxion is the first public transport company in the Netherlands to take a prominent role in the transition to zero emission public transport.



26 METERS AND GAS ENGINE

The Scania F340 HA 8 x 2 model is the first bi-articulated bus powered by an Euro 6 front gas engine. It has been developed by Scania in collaboration with the bodybuilder Busscar de Colombia. This vehicle is 26 meters long and has a capacity of 250 passengers. «This bus is specially designed to optimize the mobility of a rapid transit bus system», said Rutger Hörndahl, Product Manager Bus rapid transit (BRT) of Scania Buses and Coaches. The Euro 6 Scania gas buses are already in regular service in Cartagena, Colombia. Independent tests have proven their ability to perform high-altitude routes without loss of power and torque.



ADL INVESTS IN INDIANA, USA



Alexander Dennis Inc (ADI), who is part of the North American arm of Alexander Dennis Limited (ADL), has invested in a manufacturing hub in Nappanee, Indiana. Here ADI was engaged with a contract manufacturer to produce double deck buses in Nappanee since September 2014. From December, 29 2016 ownership of assets

and the facility lease wholly transitioned to ADI who take over the entire operation. ADI will optimize manufacturing efficiency by consolidating all operations at the Nappanee site into one 12,000 sq. m. building rather than the previous smaller footprint spread over multiple buildings. A second body assembly line will be added to the existing two lines (one chassis, one body) which will more than double weekly output. This project is due for completion by March 2017.

IRIZAR ELECTRIC BUSES FOR BILBAO

Two Irizar electric buses joined the fleet of Bilbous based in Bilbao, Spain. The two 12-metre long, 100% electric, zero emissions Irizar i2e buses are fitted with sodium-nickel batteries that provide power to the electric motor, resulting in a nominal torque of 1500 Nm and 180 kW of power. The vehicle regenerates braking energy as electricity, increasing battery life. The range declared by Irizar is over 200 km. The buses are featured with all the comfort, accessibility and safety equipment requested by Bilbobus including USB chargers as well as all the systems for optimal fleet management. Irizar also supplied the charging stations and the smart charging system for the buses, developed by JEMA (an Irizar Group company), which automatically manages and optimises electricity consumption.





CROSSWAY N. 800 IN GERMANY

Iveco Bus handed over the 800th vehicle of the Crossway range to the German operator DB Regio Bus which is responsible for the transport by bus on behalf of Deutsche Bahn in Germany. It's a 12-metre Crossway LE fitted with 45 comfort seats with coach-like seat belts and a room for 38 standing passengers, kneeling, WiFi and two sockets in the centre of the bus. Electronic passenger information displays

in the interior compartment provide audiovisual information about progress along the current route. The engine is the 320-hp Cursor 9 which complies with the Euro VI standard emissions without exhaust gas recirculation. This vehicle is part of a supply for Crossway city and intercity buses and is set to be used on scheduled services run by the Flensburg branch.

ELECTRIC BUSES IN LUXEMBURG

Bertrange, south-west Luxembourg. On December 20, it was inaugurated an OppCharge electric bus system with 12 Volvo electric hybrid buses and charging infrastructure supplied by ABB. The charging station and bus stop was built by ABB together with the national road administration (Administration des Ponts et Chaussées). Runned by the bus operator Sales-Lentz, the plug-in hybrid electric buses will be fully charged in three to six minutes at the bus terminal during the service time. The ABB fast charger has a modular design and a power of 150 kW a but it can be upgraded to 300kW and 450kW. Luxembourg was one of the first countries in Europe to introduce buses with hybrid technology. Today 41 Volvo 7900 Hybrids operate in Luxembourg.



IRIZAR E-MOBILITY IN FRANCE

Agglomération Côte Basque Adour, grouping of five French municipalities in the New Aquitaine region, has chosen the technology of Irizar e-mobility, the electromobility business of Irizar Group, for the introduction of two electric bus lines. Irizar will supply 18 i2e 100% electric articulated buses (BRT) and the charging stations at the end of each line with fast charging infrastructure, or even slower charging at the depots.

Works for the two dedicated bus lanes will start in 2017 and the launch of the service will take place on 1st April 2019. On that date Agglomération Côte Basque Adour will be the first in France to have two complete lines with a 100% electric bus system. This contract also includes the integral maintenance of the vehicles and infrastructure over the next 15 years.



MANY CITEAS FOR ARRIVA NL

VDL Bus & Coach has delivered 62 Citeas to Arriva Nederland for the Southeast Friesland and Dutch West Frisian Islands concession. The supply includes 48 Citea LLE-120 buses fitted Wi-Fi and USB charging points for every seat and 12 Citea Electric buses in a length of 12 and 18 meters. The electric vehicles are fitted with a rapid charging system using a pantograph. Arriva Nederland is part of the Arriva Group, a subsidiary of Deutsche Bahn. Arriva is a leading passenger transport company, operating in 14 European countries.



LION'S COACHES IN PAMUKKALE

The Turkish travel company Pamukkale Tourism has chosen again the MAN brand for the expansion of their fleet. A further order of 12 MAN buses has been placed by the operator based in Izmir, Turkey. The model is the 12-metre MAN Lion's Coach EfficientLine with a capacity for 38 passengers, 2+1 seating, new seat design which offers an extra 5 cm leg room and VIP facilities. This order follows a major supply of 100 MAN

and NEOPLAN vehicles (22 Neoplan Tourliners and 78 MAN Lion's Coach 2+1s). With the addition of these new buses, MAN vehicles now make up 90 per cent of the Pamukkale fleet. The company has a fleet of 600 vehicles and over 3500 employees. An estimated 14 million passengers will have been transported by the end of this year.



EXCELLENT RESULTS FOR SCANIA IBERICA

Scania's Spanish subsidiary has announced more than 500 units registered just in the first week of December. In a market that has grown over 25% in the same period last year, Scania increased more than 75% with a market share increased more than 7 percentage points. In the intercity segment Scania registered 374 units, reaching a market share of 21.6% and growing by 59.8% compared to 2015. «Scania's growth than the market shows a leap in quality of these results», said Ignacio Cortezón, bus commercial director of Scania Ibérica. «One factor to mention is the good moment of the sector that went better than expected. Scania Euro 6 buses are appreciated by customers and are giving good results. The market is also showing us the good reception of sustainable transport solutions and the proof is that approximately 25% of our registered units are powered by alternative fuel engines. We should also mention the good market penetration of the Citywide hybrid bus in Class II».

