

HYBRID DRIVE
INNOVATION
ENVIRONMENTALLY FRIENDLY
TECHNOLOGY

INDUCTION TECHNOLOGY

ELECTRIC TRANSMISSION
AIR QUALITY

INNOVATION
DESIGN
PANTOGRAPH TECHNOLOGY
LOW CARBON



Improve your City's Air Quality
The Future is Electric

Welcome to Wrightbus

A leading supplier of accessible vehicles

Wrightbus, based in Ballymena employs 1,600 people and is one of Europe's leading suppliers of accessible public transport vehicles. Formed in 1946 and still in private ownership the Wright Group has earned a reputation for innovative vehicle designs, a large and innovative product portfolio and investment in advanced engineering.

A global player

Our company continues to invest in innovation with determination to become global leaders in bus design. Working closely with a number of key partners, Wrightbus has already achieved recent significant successes – domestically with StreetLite™ and the prestigious New Bus for London and internationally on various product platforms in Dublin, Singapore, Hong Kong and the USA. We have also led the way in the development of hybrid technology both in the UK and beyond.

Our credential's

- Our company introduced the first ever low floor bus to the UK in 1993
- Wrightbus was the pioneer of "green bus" technology and launched the world's first hybrid-electric double deck at London's City Hall in 2006
- Wrightbus has 50 hybrid powered Bus Rapid Transit vehicles in daily operation in Las Vegas
- Wrightbus is one of the top five manufacturing companies in Northern Ireland
- One in three buses operating in London is a Wright Group bus, built in Ballymena
- The company build the eco-friendly "New Bus for London", the successor to the iconic Routemaster
- Our company assemble kits in Northern Ireland which are shipped to Singapore and China for local assembly
- Wrightbus has won a number of prestigious awards in recognition for our work in clean powertrain development including the Carbon Trust Innovation Award, the Low Carbon Vehicle Partnership Award and most recently the 'Low Carbon Heavy Duty Vehicle Manufacturer of the Year' award



High quality, low whole life costs

Wrightbus is focused and unrelenting in our efforts to deliver and support high quality products, with the lowest cost of ownership. All our vehicles designed and manufactured conform to the exacting quality standards of ISO 9001:2008.



"Wrightbus "green technology" will facilitate the reduction of fuel consumption and carbon dioxide by up to 47% compared with current diesel buses."



PANTOGRAPH TECHNOLOGY
INNOVATION
ELECTRIC TRANSMISSION

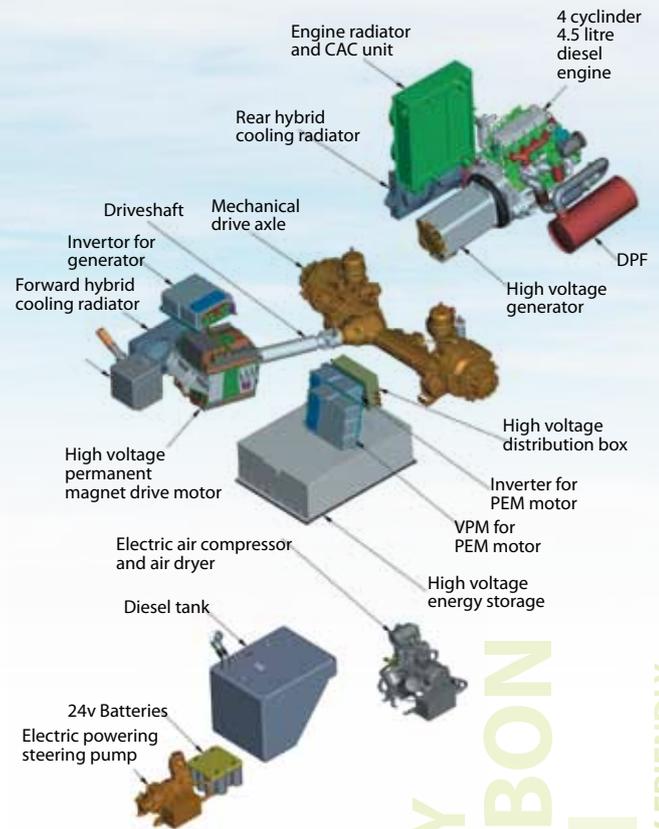
HYBRID DRIVE
INDUCTION POWER TRANSFER
AIR QUALITY

Wrights Hybrid

Hybrid powered buses are now an increasingly familiar sight on our roads. An early pioneer in hybrid technology, over 700 Wrightbus hybrids are in service or on order in Europe and beyond.

Today the Wrightbus hybrid vehicle choice extends beyond our Double Deck and StreetCar model ranges, with a "Flybrid" option now developed for the StreetLite midi range.

- The Wrightbus hybrid system consists of a generator directly coupled to an efficient diesel engine, electric drive motor and high voltage battery pack
- The engine/generator package operates independently of the motor/driving axle, eliminating the need for a traditional gearbox and enhancing system efficiency
- The vehicle control system communicates directly with all system controllers, to optimise vehicle performance and maximise fuel efficiency in all road conditions
- Stop/start engine technology reduces the time the engine spends unnecessarily idling at low speeds and utilises the high voltage battery pack to launch the vehicle in electric mode, which has a dramatic effect on both fuel consumption and environmental performance
- The use of advanced battery technology enables the vehicle to operate in zero emission mode for short distances, allowing vehicles to operate in areas with low or zero emission standards



“The Wrightbus hybrid double deck features a combination of a 4.5-litre diesel engine and an electric motor powered by a lithium-ion battery.”

TECHNOLOGY
LOW CARBON
DESIGN
ENVIRONMENTALLY FRIENDLY



Wrights Electric

Complete with all the benefits associated with Wrightbus products the Electric Vehicle (EV) powertrain gives operators the ability to introduce an "all-electric" vehicle solution on routes where noise and emissions are particularly sensitive.

The Wrightbus Electric Vehicle (EV) driveline is available for midi, single deck and double deck buses in a range of configurations tailored to meet the needs of individual operators, towns and cities."

Driveline

- Siemens ELFA® II electric drive system
- Latest generation Lithium-ion battery technology
- Off board charging (plug-in)
- Range between charging of 130kms*

Key Features

- Class-leading in noise, vibration and harshness
- European Community Whole Vehicle Type Approval and ECE Regulation 107
- Independent Front Suspension system and 4 Spring Rear Air Suspension
- Ergonomic driver's area with excellent all round driver visibility ISO 16121 compliant
- Wide entrance door (with 2 door option) and a high proportion of low floor seating
- Curved body profile and full rear window for light and airy interior
- Advanced heating and air-ventilation system
- Daytime running lights fitted as standard as part of combined indicator/ position/DRL LED lamp
- Electrically driven power steering and hydraulic systems
- Aluminique™ body structure and quick release panels
- 2 year 'bumper to bumper' warranty with up to 5 years warranty available for battery pack

"Wrightbus has never been afraid of thinking differently"

PURE ELECTRIC
TECHNOLOGY
STREETLITE
NEW BUS FOR LONDON



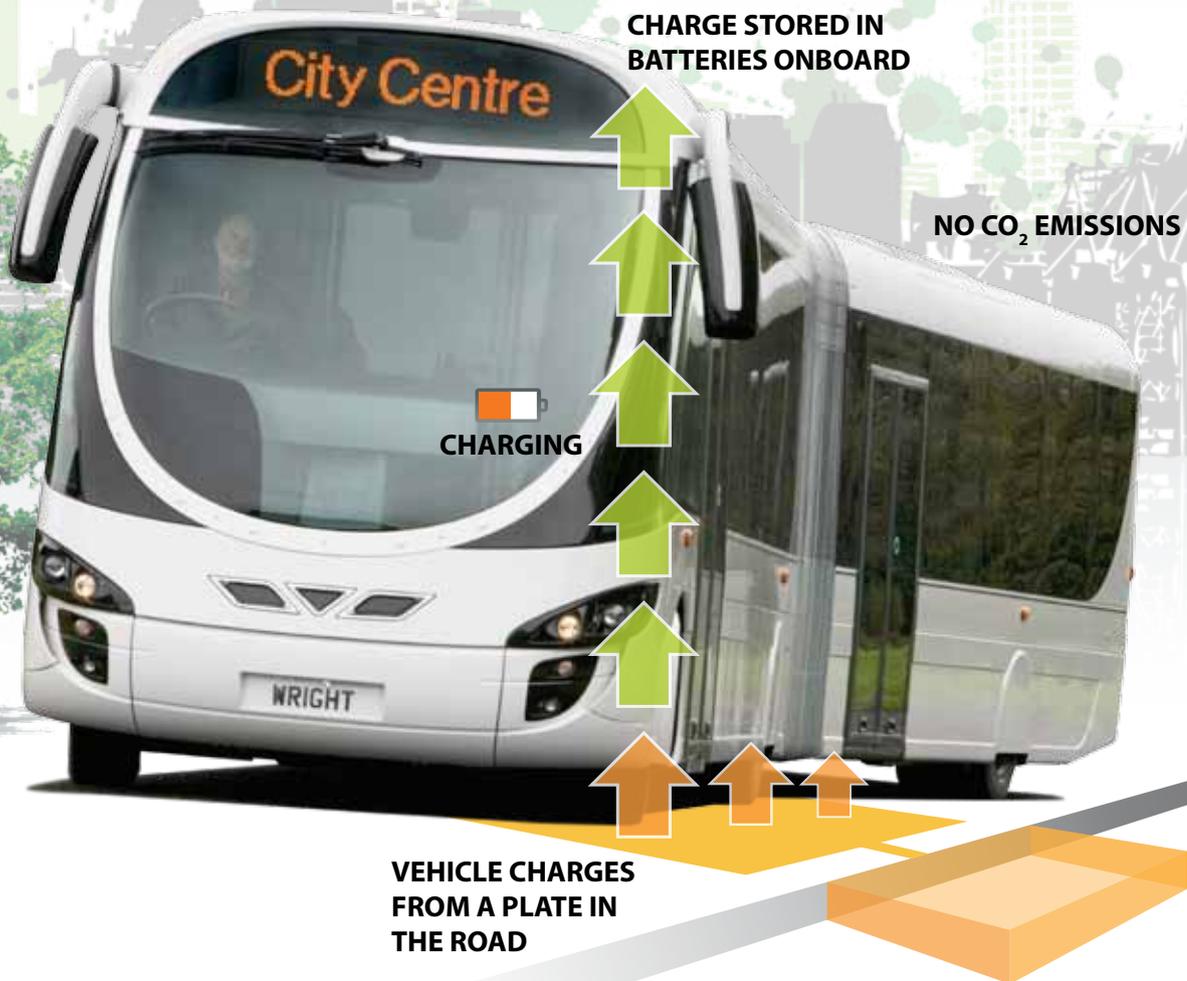
Introduction to Induction

Induction charging uses power from a plate in the road to recharge batteries positioned onboard Wrightbus' vehicles whilst in service. Such a charging system is fully "intervention free" with no plugs or paddles, giving extended operational possibilities for an electrically powered vehicle.

Wrightbus, working in close collaboration with a number of partner organisations, has already produced the UK's first wirelessly-charged electric buses as part of a five year project in Milton Keynes. Eight 9.5m StreetLite EVs use the Induction Charging system to enable the buses to recharge their batteries during their working day.

The StreetLite EV buses charges for ten minutes at the beginning and end of each cycle without disrupting the timetable which means, for the first time, electric buses are capable of the equivalent load of a diesel powered bus on a UK bus route.

The Milton Keynes project bodes well for the potential wider future adoption of this emission free technology offering fuel savings and the potential to reduce CO₂ emissions across our range of product offerings (midi, single deck, 2 and 3 axle double deck and bus rapid transit vehicles).



"The Wrightbus EV with induction charging, can be charged in 10 minutes at bus terminuses via power from a plate on the road."

Pantograph Technology

Wrightbus offer electric and hybrid vehicles suitable for fast charging via overhead charging stations using conductor rails. An automatic overhead charging station quickly and safely connects the bus to Aluminium profiles which allow large current-carrying capacity for the highly efficient transfer of large amounts of power from the electrical grid to the bus.

Together with a partner company, we are now able to offer a complete solution for automatic fast-charging stations which includes different types of roadside automatic charging units, the high-power DC charger, and the communication, safety and control systems between the bus and the charging station.



For further information on the Wrightbus green technology range and the benefits they can deliver for your operation, contact a member of our sales team on +44 (0)28 2564 1212

Wrightbus, Galgorm, Ballymena, County Antrim, Northern Ireland BT42 1PY
T: +44(0)28 2564 1212 F: +44(0)28 2564 9703 W: www.wright-bus.com