

Leicester electric

100% ELECTRIC • ZERO EMISSIONS • FOR A GREENER LEICESTER

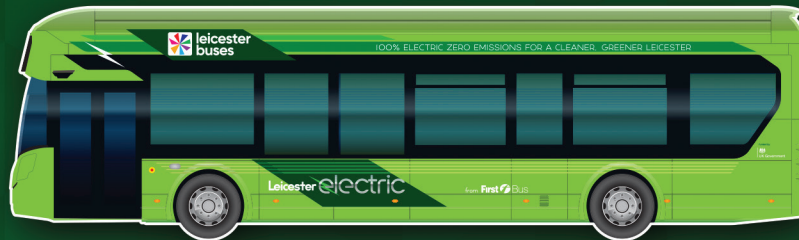
Welcome to our Leicester Electric Bus launch and thank you for joining us at the depot of the future.

First Bus has committed to one of the most ambitious decarbonisation strategies not only in UK mobility, but in net zero transport today.

We are focused on First Bus becoming a leader in the transition to a low-carbon future and are committed to operating a UK-wide zero-emission bus fleet by 2035.

A total of £48m has been invested so far to bring this project to fruition, through First Bus investment and DfT funding in partnership with Leicester City Council.

The infrastructure within the site is being totally transformed and will house the latest state-of-the-art technology. We look forward to the project completing in November and are excited to introduce our new electric buses to our local communities.



I would like to thank all our partners who are involved in the project, as they all play a vital part in bringing their skills, knowledge, products and technology to transform the First Bus depot in Leicester.

Rob Hughes

Operations Director



THE PARTNERSHIP

- ❑ Leicester City Council's main role in this project was to secure matched funding of £12.85m towards the overall cost of the 68 electric buses and its associated charging infrastructure.
- ❑ They lead and manage Leicester's successful Enhanced Bus Partnership Scheme, which aims to make the whole Leicester network electric by 2030. By the end of 2023, over a third of the network will be electric (138 buses) and will be used by over 50% of all passengers.
- ❑ The Partnership Scheme is also delivering a range of complementary projects designed to make bus travel more reliable, frequent, easy and great value – further improving the electric bus investment.
- ❑ All electric bus routes will have new bus shelters with real time information displays, additional enforced bus lanes and 'best fare' all-operator tap-on-tap-off ticketing. There will also be more all-operator tickets to assist interchange and discounted tickets aimed at students, the elderly, unemployed and disabled.
- ❑ Together, an optimised and co-ordinated network with integrated timetables has been agreed.
- ❑ All projects will be completed in line with the roll out of electric buses in 2023, an investment of a further £40m.

Read more about the partnership at www.leicesterbuses.co.uk



DEPOT INFRASTRUCTURE

Having first opened in May 2007, the Leicester depot moved from its long-standing home at Abbey Park Road into a new purpose-built depot. By incorporating the latest technology and systems, the new depot gave First the opportunity to improve bus travel in the local communities of Leicester.

Over the years, we've seen many changes influenced by the local economy, social, technological and environmental factors – resulting in improvements to bus networks, ticketing, vehicle types and working conditions.

We now look to refine our model to create a depot of the future.

A total of £29.1m has been invested into the depot's infrastructure to support up to 74 EVs. This is made up of £28.9m ZEBRA 1 and £0.2m Solar PV project investment.

The works will bring significant power to the site from the local grid, ensuring we have enough both now and in the future.





The Chargers

- Heliox are delighted to have been chosen as the partner to supply First Bus' Leicester depot with chargers, following successful commissioning at our York and Caledonia depots.
- Heliox have supplied 24 dual headed rapid 150kW chargers, 8 triple headed 180kW dynamic chargers and 2 mobile 40kW chargers to allow for the simultaneous charging of up to 74 electric vehicles.
- The rapid 150kW chargers are supplied with Autocharge and a PAYTER terminal, which are fully capable of charging all types of vehicles including buses, cars and vans. This solution means the depot can be used for business-to-business charging, providing much needed local charging infrastructure.
- The EV charging infrastructure is supported by a 15-year Service Level Agreement, ensuring a reliable and sustainable bus service for Leicester.

Solar Panels

- 462 solar panels have been installed on the roof of the depot.
- The installation will be expected to generate a max of 188kW, delivering an expected 167,318kWh per annum*.
- The system is expected to generate around 55% of the building's electricity requirements.
- Over the 25-year lifetime of the panels, we expect to save the equivalent of almost 400 tonnes of CO².

** Figure based on electric usage from 21-22 financial year.*



THE BUS

Wrightbus Electroliner Kite

It's time to set new sustainability standards with the newest addition to our fleet.

Wrightbus are supplying Leicester depot with 68 single-deck Electroliner Kite EV buses. These vehicles will save over 60,000 tons of carbon emissions over their lifetime.

Length

11667mm

Width

2520mm

Height

3380mm

Kerb Weight

12,200kg

Facilities

LED lighting to reduce energy consumption

Advanced heating and air ventilation system
with zero-emission heating

'Next stop' audio and visual announcements,
with an induction hearing loop at every
wheelchair space and priority seat

USB charging points

Passenger Capacity

40 seated (85 maximum).

Including space for one
class 2 mobility scooter or
one wheelchair user.

*DDA compliant with wide entrance door,
ferry lift and kneeling function, ramp &
high proportion of low floor seating.*

Battery

Forsee Power.

Battery capacity 340kWh.

Battery Charging

CCS2.0 compliant

Combo 2 Socket.

Fast charging
2.5 hours @150kW
plug in charge rate.

Vehicle Range

Travel up to 150 miles* on
a single charge, making
it an excellent vehicle for
intra-urban travel.

** Subject to several factors
e.g. passenger load, route gradients,
ambient temperature, frequency of stops,
wind speed 7 direction etc.*



THE NETWORK

First Bus is proud to play an important part in keeping Leicester moving, by providing a comprehensive network of bus services and offering a wide range of ticketing products to suit every travel need.

We operate 19 bus services across Leicester, serving:

- | | | |
|---|--|--|
| <input type="checkbox"/> Glenfield | <input type="checkbox"/> Eyres Monsell | <input type="checkbox"/> Thurnby Lodge |
| <input type="checkbox"/> New Parks | <input type="checkbox"/> Saffron Lane | <input type="checkbox"/> Thurmaston |
| <input type="checkbox"/> Braunstone Frith | <input type="checkbox"/> Leicester Royal Infirmary | <input type="checkbox"/> Rushey Mead |
| <input type="checkbox"/> Kirby Frith | <input type="checkbox"/> Highfields | <input type="checkbox"/> Mowmacre Hill |
| <input type="checkbox"/> Glenfield Hospital | <input type="checkbox"/> Goodwood | <input type="checkbox"/> Beaumont Leys |
| <input type="checkbox"/> Braunstone | <input type="checkbox"/> Netherhall | <input type="checkbox"/> Anstey and Birstall |
| <input type="checkbox"/> Beaumont Shopping Centre | | |
| <input type="checkbox"/> Leicester General Hospital | | |

Around 66% of the network will be operated by the EVs following delivery of the ZEBRA 1 buses.

