

Britain's betting on buses: How far will boosting services reduce carbon emissions?

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Credit: AI-generated image (disclaimer)

A move to "make buses the transport of choice, reducing the number of car journeys and improving quality of life for millions" has been launched as part of a <u>national bus strategy</u> in the UK. It seeks to make bus services more reliable and affordable to get people out of the cars that still dominate transport in the country.



But to what degree can such changes convince people to ditch their cars and rely on a sector that in many parts of the country has been neglected for years? Can boosting bus services reduce <u>carbon emissions</u> and help the UK achieve its environmental goals?

It's difficult to convince drivers to choose public transport, as <u>studies</u> <u>have shown</u>. Increasing the reliability and frequency of bus services might attract people who rarely travel by bus, but it's <u>not always enough</u>.

The national bus strategy proposes making services more appealing by giving <u>buses</u> priority over other traffic. Where separate bus lanes have been introduced in the UK—and especially guided busways, such as one in <u>Cambridgeshire</u>—the improved speed and reliability have made the services attractive to those with cars and led to higher passenger loadings. In the <u>Cambridgeshire Busway case</u>, about 25% of drivers left their cars and chose the bus along with 13% of car-share passengers, saving about 550,000 litres of fuel in a year.

Redesigning road networks to give buses more priority also reduces their operating costs, which mostly derive from the <u>time buses are running</u>, rather than total distance traveled. The savings that providers and public authorities make can be reinvested to improve services further or passed onto passengers through lower fares, making services even more appealing and increasing loadings in a virtuous circle.

But while buses are more fuel efficient than cars, exactly how much more depends on several factors. In London, where high-frequency services mean people don't have to rely on timetables, passenger loadings are higher on average than elsewhere, producing lower emissions and using less energy for each kilometer traveled per passenger than cars. In places where maximizing ridership is not the main goal, but ensuring everyone has fair access to a bus route is, as in many <u>rural areas</u>, the emission savings of buses versus cars are less impressive.



U-turn on competition

The most striking aspect of the strategy is its proposed reform of how services are planned and delivered, which marks a sharp departure from the pro-competition policies the Conservatives have espoused since deregulating bus services in 1985. The shifting consensus is evident in Greater Manchester too, where the mayor, Andy Burnham, recently announced a new London-style franchise system to run the region's buses by 2023.

At present, most services in Britain are planned and run by operators on a commercial basis, with local authorities filling gaps in the network through competitive tendering to private operators. The new strategy would see authorities coordinate services and fares with operators in "enhanced partnerships", or contract them to run a planned network using a franchise model, as happens in London.

London has a <u>very high level</u> of bus use—247 trips per head in 2018-19 compared with an average of 75 in the six English metropolitan areas. Car ownership per head in London has not risen since the early 1990s and the share of car travel has <u>fallen substantially</u>, in marked contrast to trends elsewhere in Britain.

Together with a shift to zero-carbon buses, running a national effort to reduce unnecessary competition between bus operators could repeat London's successes and make services more efficient and attractive—all helpful for lowering emissions.

But the new strategy will have to overcome several challenges.

First, to continue receiving funds, <u>local authorities</u> will have to follow a franchising or partnership model, but on a very tight timescale.

Managing this U-turn in Conservative policy may be particularly



difficult for councils after years of cutbacks.

Local government will need more support to cover the difference between operating costs and passenger revenue in many areas, as well as investment in infrastructure and new vehicles. The government has promised £3 billion overall, but the overall timescale is unclear.

The second challenge regards the pandemic-induced slump the bus sector finds itself in. A year ago, Boris Johnson warned people to avoid bus travel to control the spread of COVID-19, and bus ridership is now running at about 40% of pre-pandemic levels. Recreating a positive and safe vision of bus travel will be necessary to make services more efficient.

The strategy prioritizes rescuing the bus sector, which can be reshaped quicker—and cheaper—than rail could. But the bus sector's recovery must be embedded in a longer-term vision that sees all transport modes working together to decarbonise the sector.

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