

Transport Planning Society Decarbonising Transport

Head of Strategic Development Go South Coast Paul Walker

We're part of The **Go-Ahead** Group





























Who Are We?

Bluestar – Southampton

Damory – rural Dorset

morebus – Bournemouth & Poole

Salisbury Reds – Salisbury

Southern Vectis – Isle of Wight

Swindon's Bus Company – Swindon

Unilink – University of Southampton

UNIBUS – Bournemouth University









Key Areas:-

- **Decarbonising Buses and How to Deliver this**
- **Decarbonising New Development Where the Planning White** Paper Fails...
- Decarbonisation in a COVID context











Oxides of Nitrogen (g/kWh) Oxides of Nitrogen (g/kWh) Euro 1 Euro 2 1993 1998

Euro 3

Particulate Matter (g/kWh)

1.5

Euro 4

Euro 5

significant improvements..... Diesel is a commercially viable and proven technology which delivers

2003

2008

2013

2018

0.0

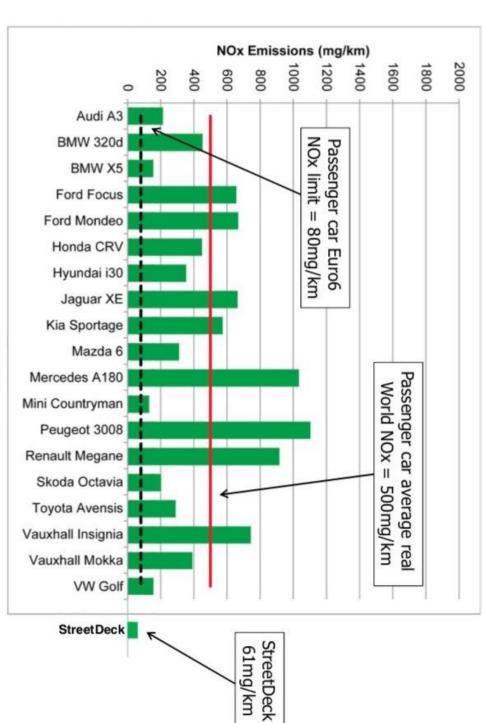
Euro 6







Euro 6 Low
Emission
Buses
The cleanest
diesel
vehicles on
the road





Our Fleet Today



| EU/O 0 |
|------------|
| |
| Euro 5 275 |
| Euro 4 126 |
| Euro 151 |
| Other 14 |
| Total 840 |





the go south coast family of companies is





















Our Investment

Investment

NEW environmentally friendly fleet 234 Pewbluses 201









In the Market for a new Motor?







Extended Range Hybrid — Diesel/Electric



Full Electric



Hydrogen





Types of Electrics







In-Depot Charging

Opportunity Charging



Salisbury Electrics Project



Buses (3)

Electrical Supply and

Connection

Total Cost

£1,044,000 £207,324

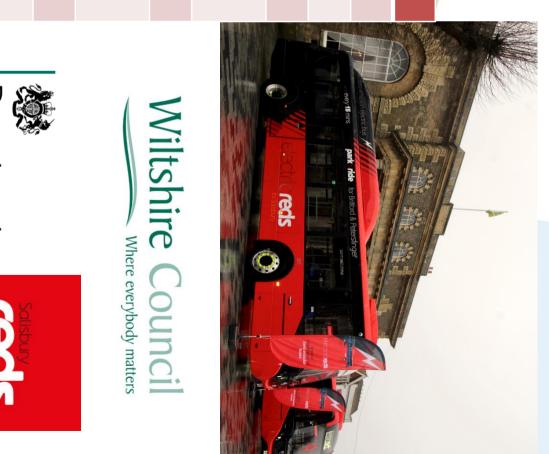
£1,251,324



Salisbury Electrics Project

Main Headlines

- **Introduced January 2020**
- **Primarily Operating Salisbury**
- 160 miles range
- year 32.2 tonnes of CO2 saver per bus per
- 15.5 tonnes of NOx per bus per year
- Renewable Energy Source in Partnership with Southern Electric
- 4 Hours to recharge
- Delivered in Partnership with DfT and Wiltshire Council
- **Experiences** Learn Engineering and Customer



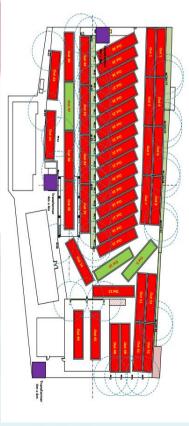








The Swings and Roundabouts



| | | • | • | • | • | • | | |
|---|---|--------------------------|---|--|------------------------|---------------------------|------------|--|
| | | Access to CAZ and ULEZ's | Potentially Less Maintenance Costs | Smoother Ride | CO2 and NOx Reductions | Zero Emissions | Benefits | |
| • | • | • | • | • | • | • | | |
| | Range of the Vehicles (in particular DD interurban) | Lifespan of Batteries | Electrical Supply and Installation — and Capacity | Depot Infrastructure and Land Assembly | Terrain has big impact | Cost & Funding Mechanisms | Challenges | |





Swindon Bid All- Electric Bus Towns



All-Electric Bus Town







Investement

and Stagecoach Swindon Borough Partnership bid between Council, Swindon Bus

2 main depots - £77m 165 new buses in total -

Air Quality Imprivement Swindon Bus Investment £16.6m

Swindon Borough **Council Investment**

DfT ask £33m

Outcomes

Full Electric Buses on the Town Network

Long Range Hybrids for Inter-Urban Routes

Air Quality Improvement

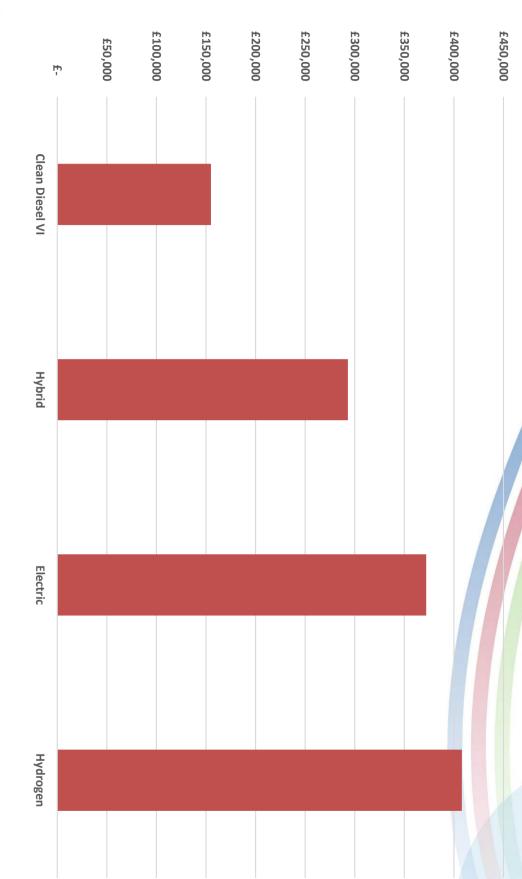
Bus Priority and Real Time Information

Bus Boulevard Improvements





Vehicle Purchase Costs





Zero Emission Buses alone are not the answer



- Just 4% of UK roadside emissions coming from existing buses;
- We have to develop partnerships where our ambition to be zero emission is matched with priority measures;
- Need to reverse the decades of damage to bus journey times.







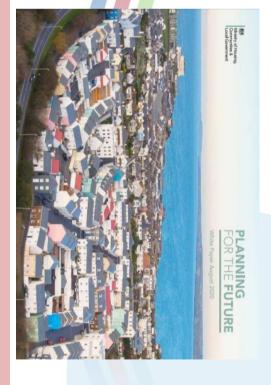


Decarbonising Buses – Key Themes

- Electrical Supply Network? Farms? Solar?
- Land needed to supply charging hubs
- Need to look at funding models lease or purchase?
- bus operators Needs seed funding – no pure business case for
- Partnership is better to deliver better outcomes



New Government Planning for the Future White Paper



- Planning system entirely removed without obvious direct replacement
- Public engagement would only be through the Local Plan
- Development requirements nationally set and apportioned to each LPA
- development value tax Developer contributions abolished and replaced with a national
- Transport considerations are entirely absent
- aesthetics not about how developments functioned Development Management decisions could be predominantly about
- Unclear how far we would be able to steer developments towards highquality PT solutions





Impact of COVID-19

- Mileage around 90-96% of pre Covid-19 Levels (Average; September 2020)
- Patronage between 50-60% of pre Covid-19 Levels
- **Currently reliant upon Government Support to maintain services**
- Negative messaging around the uses of bus and train
- than hours and Austria hadn't found anyone with an infection on board with a stay of less No proven Covid-19 infection traced to Public Transport — Studies in Germany
- funding ceases Services unlikely to bounce back to pre-Covid-19 levels when government
- trequencies Likely to impact on Rural and Interurban services as well as reduced urban
- Will make settlements less sustainable and worsen air quality
- Need to get back on commercial footing to enable investment
- Current funding commitments cannot be fulfilled where does this leave projects and partnerships









Thank you

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