Introducing the Electric Avenue:

Low Emission Bus Workshop Thursday 16th November 2017

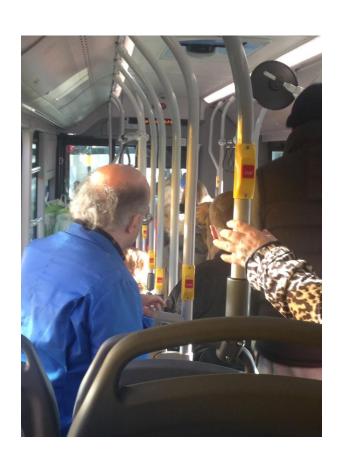
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Presentation summary

- Intro who we are & our Electric Avenue
- ▶ Why & how we operate an electric fleet
- ► The journey & +/-
- Conclusion why we think EV = the right avenue

Nottingham's Electric Avenue



- Nottingham CT is a not-for-profit charity
- Focuses on accessibility, mobility & inclusivity

Nottingham's Electric Avenue

We operate 58 fully electric buses: one of the largest single EV fleets in the UK



Electric Avenue - why & how

- ► Why?
 - Cut operating costs
 - ► Improve air quality
 - Reduce noise pollution



- ► How?
 - ► 6 year plan (2012 2018)
 - ► Funding from City Council & DfT
 - ▶ 4 phases

Electric Avenue fleet phase 1+2

- ▶ 2012 4 Optare Solos
 - ► Based at Sherwood Depot
- ▶ 2014 10 Optare Solos & 10 Versas
 - Queen's Drive EV compound opens



Electric Avenue fleet phase 3+4

- ▶ 2015 17 Optare Solos
 - Expanded EV compound at Queen's Drive





- 2016 13 BYD + 4 Optare Solos
 - ▶ New Queen's Drive EV compound opens

Nottingham's Electric Avenue

Our all electric Medilink carries over 1m pax a year



= a high quality, urban sustainable transport corridor

Electric Avenue - costs/savings

- Costs
 - Double the cost of a diesel bus
 - Infrastructure costs fast chargers
 - ▶ Project costs £15.1m
- Savings
 - Lower maintenance costs
 - Lower operating costs
 - Environmental benefits

Electric Avenue - (+/-)

- Positives
 - Environmental benefits = huge
 - Innovation & modern fleet
 - Showcase for stakeholders/passengers
 - Unlocking of funds



Electric Avenue - (+/-)

- Negatives
 - ► Time to install electricity supply (12 months)
 - Lack of fast chargers: 12 to 45 buses
 - Range and driver anxiety
 - ▶ Barriers to the project



Daleside Road Scheme

- ▶ £6.1m project funded by LEP to:
 - Promote sustainable travel
 - Support new development growth
 - ► Improve bus services, cycling
 - Promote Ultra Low EV's





Tips for the Right Avenue

- Maximise range of vehicle
- Limit use of fast charging
- Adjust driver schedule to EV (not driver) capabilities
- ► Full driver induction and CPC



Conclusion: why the right avenue

EV = clean & green vehicles:

- Low emission vehicles = the future
- Initial investment v cost savings
- Helped Nottingham hit climate change four years early



Thank you for listening

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The little bus company with the big heart