

Introducing the Electric Avenue:

Low Emission Bus Workshop
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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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