

BYD E200 Electric Buses.

Operator's perspective

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June 2019





Guildford Electric Park & Ride

- 9 Enviro200EV electric vehicles at 10.8m, single door PVR 8
- Guildford Park and Ride Service 4 sites around the town centre
- 324 kW hour battery –high capacity battery for single deck
- Capable of 80kW/hr overnight charging
- Careful scheduling to ensure that the mileage is evenly distributed across 8 buses no bus exceeding 150 miles per day
- Well received by drivers and customers



Maintenance

- Specialised contracted with Alexander Dennis at their Guildford site
- Basic training and safety awareness provided to Stagecoach staff
- Using Stagecoach 28 day service documentation
- Brake testing, MOT testing, unplanned maintenance and accident damage is in-house
- Low maintenance compared to traditional diesels
- BYD based in Ivor for warranty repairs

Charging

8 fixed chargers and 1 mobile charger

Limitations

- Power available from the grid Peasmarsh sub-station limited to 200kW
- Supplemented with power from Zenobe battery
- Time buses are in the depot
- Costs of electricity in peak times
- Heavy fines if current limit is exceeded
- 3 x 48 amp, 3 x 53 amp, 2 x 70 amp controlled by software
- 4 chargers live at 7.30pm, 4 at 11.30pm

