



Report generated for
Basingstoke Train Station, Basingstoke

Client
Southern Western
Rail

Project Ref
801

Date
10.02.2020

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01 Site Summary and Recommendations

Overview Southern Western Rail is a major retail site outside of Basingstoke. The site has 1399 car parking spaces with no existing on-site Electric Vehicle (EV) charging facilities. The report presents an analysis of the site and its local market for electric vehicles today and out to 2030 as the market develops. evlab® has a proprietary algorithm that calculates a site score - indicating the site's strength as a charging location versus the UK average. The report sets out the size and speed of charging service required at the site and how many charging bays the site should be prepared for in the future.

Evlab site strength indicator



133%

Recommended no. of chargers

Recommended specification

22kW & 50kW+



Local EV penetration - Strong

[To amend] Local concentration of EVs is higher than the UK market average



Local EV charging infrastructure - Weak

[To amend] The density of local chargers is significantly lower than the UK average



Expected EV adoption rate - Strong

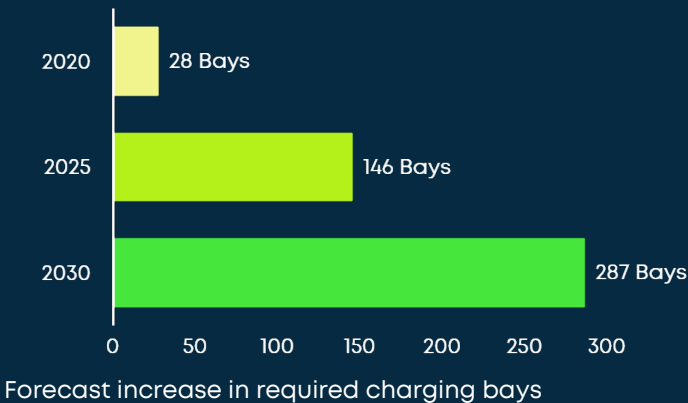
[To amend] EV adoption rates are expected to be higher than the UK average



Demand based on asset type - Strong

Shopping Parks have a high EV charging infrastructure demand

Future EV charging bay requirement



Next steps

Site survey / Costing / Procurement / Project Delivery



Demand Score:
112%

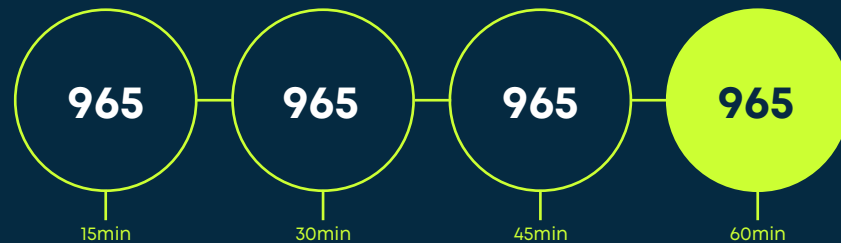
02 EV Local Market Analysis

PEV Local Market Density

Strong

Local market has been defined as 60 minutes drivetime from the site. Within the site's local market there are 965 EV's. Local EV penetration (0.85%) is higher than UK EV penetration (0.73%).

Plug-In Electric Vehicles by Drivetime

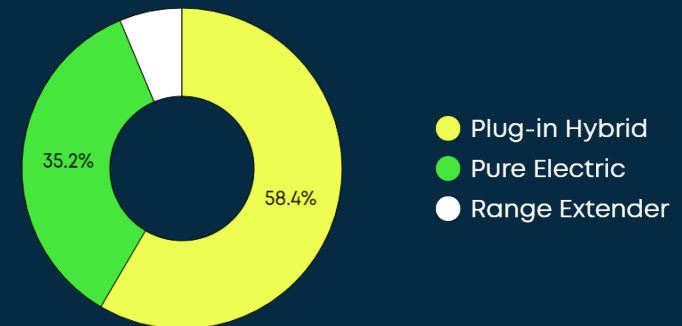


Local Network Reliance

Strong

Pure electric vehicles rely more heavily on public charging networks. The share of Pure electric vehicles in the local market (35.23%) is higher than the UK market (31.17%).

Electric Vehicles by Energy Source in Local Market



Market Growth

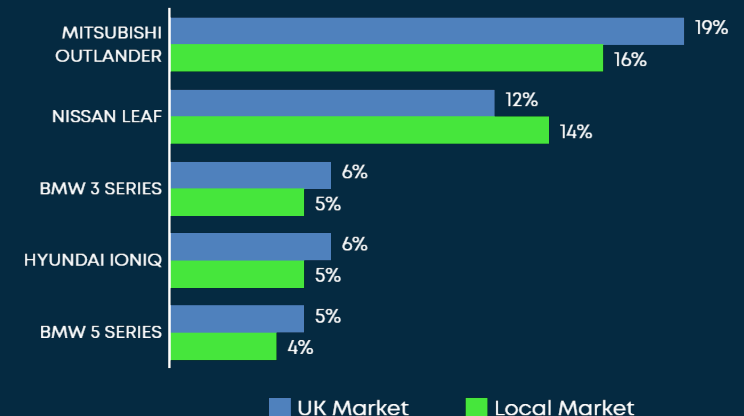
Average

For the last three years, the local EV market has grown in line (28.28%) with the UK market (26.70%).

3 Year EV Market Index Growth



Most Popular EVs





Supply Score:
71%

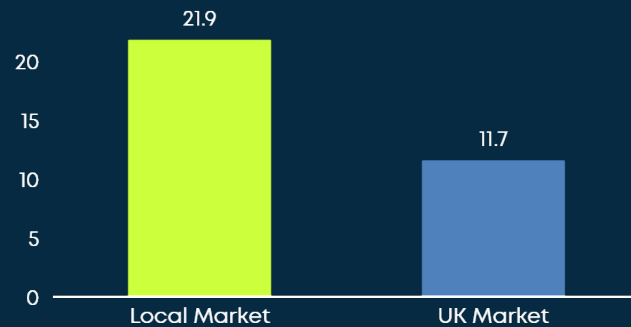
03 Local Charging Network

Supply of Charging Infrastructure

Weak

Local charging network has been defined as 15 minutes drivetime from the site. The availability local chargers is significantly lower than the UK average. This suggests a higher than average requirement for EV charging infrastructure.

Number of registered vehicles per charger



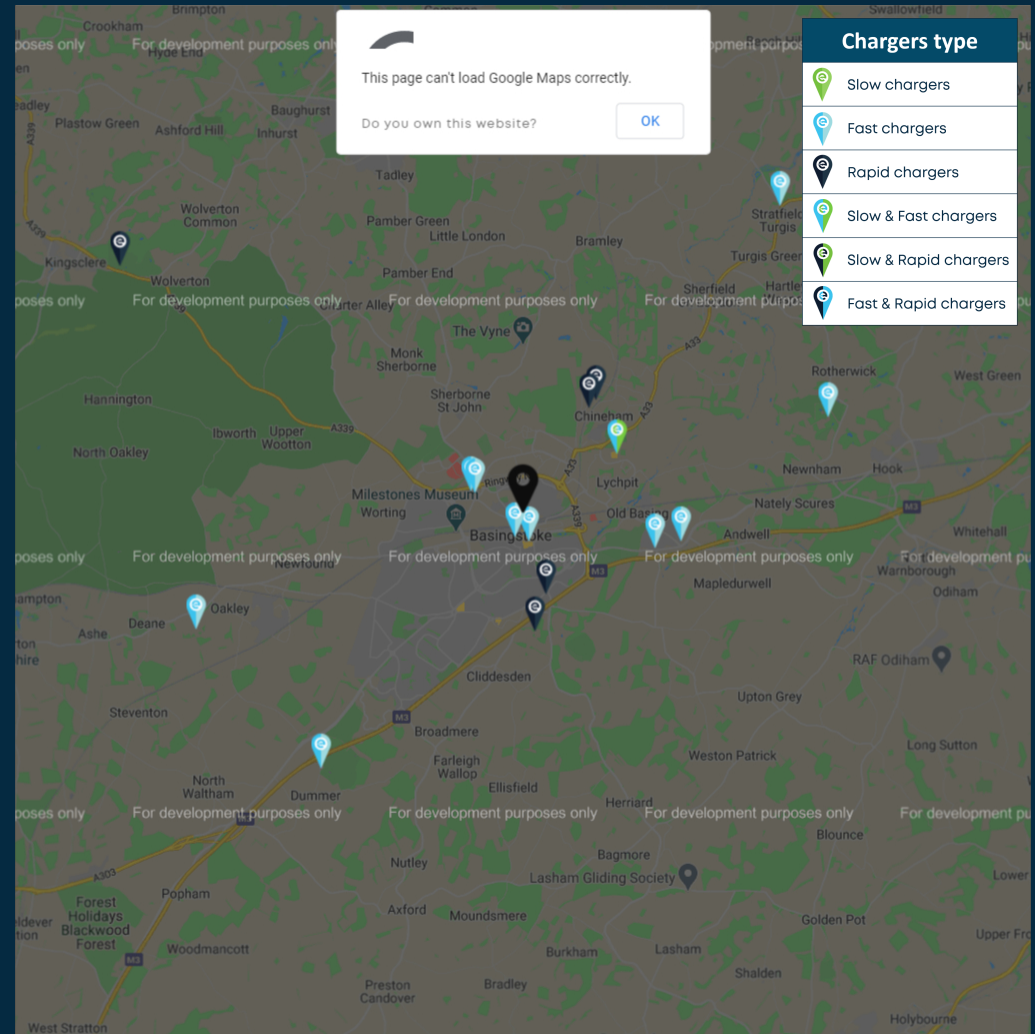
Network Speed

Very Fast



The average local network charging speed is 36% faster than the average UK network charging speed.

Plug-In Vehicles Density vs Chargers Location





EV Adoption
Score: 118%

04 Local Area Indicators



190,105 People



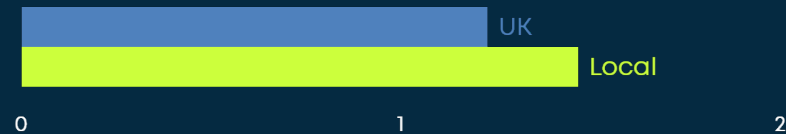
77,577 Households



Car Ownership

Above Average

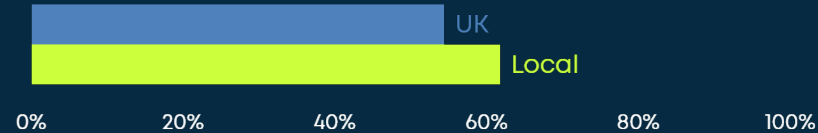
Average number of cars owned by household



Drive to Work

Above Average

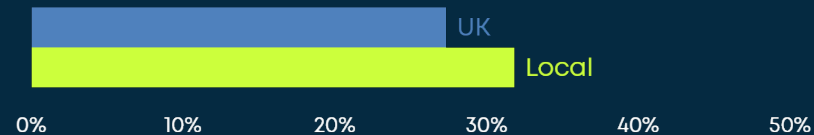
Share of workers driving to work



Higher and Continued Education

Above Average

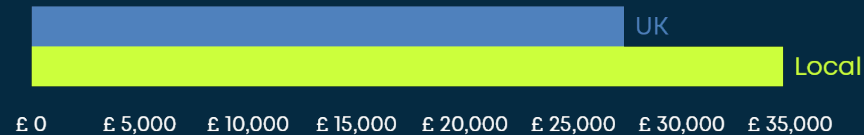
Share of active people with higher education



Wealth

Above Average

Average net income after housing costs



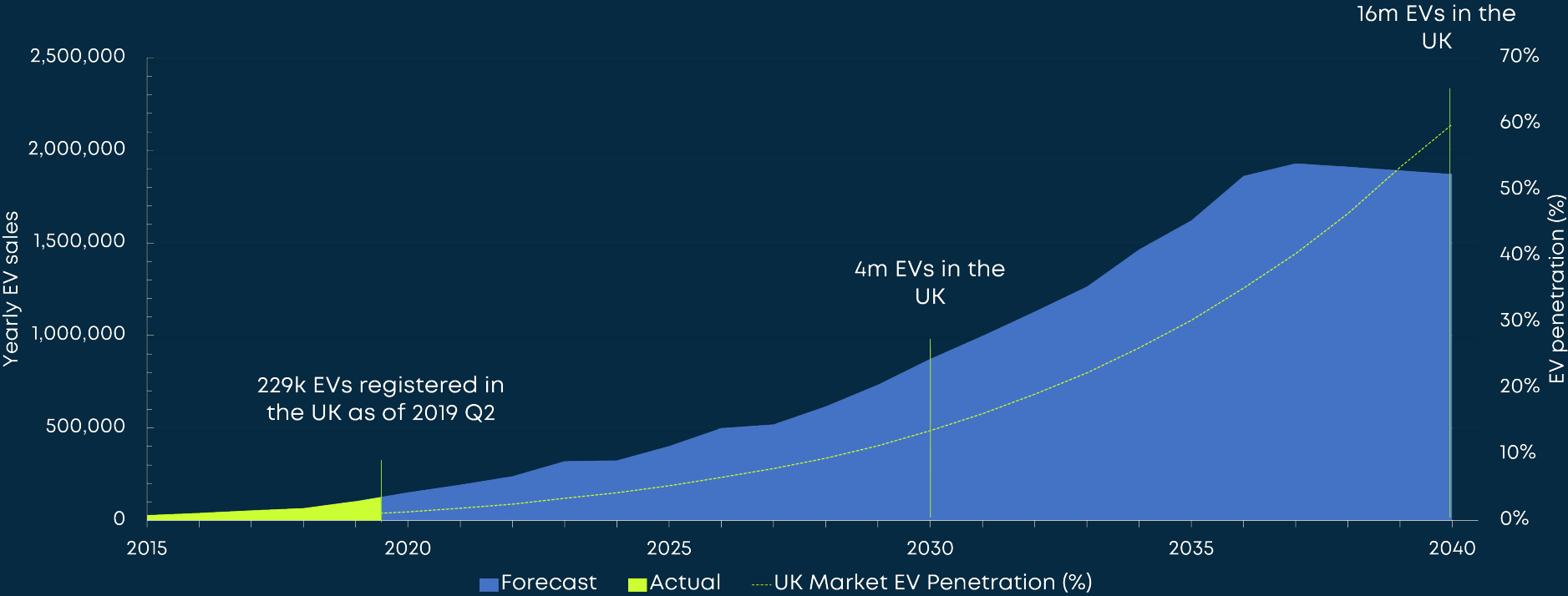
05 Projected Charging Infrastructure Requirement

Forecast

UK EV deployment rates forecasts, combined with assessment of the local market strength (EVlab score), have been used to forecast how many EV charging bays will be required at the site for 2020 and out to 2030.

Year	Local EV Penetration	EV Charging Bays Required
2020	1.3%	28
2025	6.9%	146
2030	13.7%	287

UK Electric Vehicle Market Penetration & Annual Sales Forecasts





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