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Report generated for

Basingstoke Train Station, Basingstoke

Client	Project Ref	Date
Southern Western Rail	**801**	**10.02.2020**

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

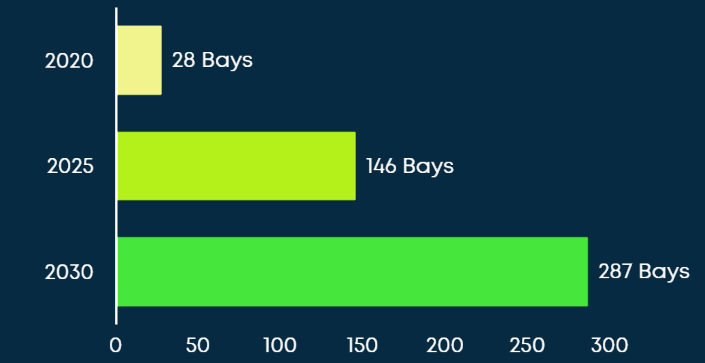
Expected EV adoption rate - Strong

[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



Forecast increase in required charging bays

Next steps

Site survey / Costing / Procurement / Project Delivery

02 EV Local Market Analysis

Demand Score: 112%

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%).

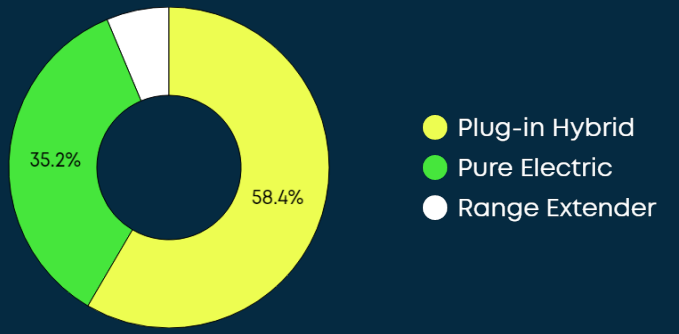
Plug-In Electric Vehicles by Drivetime

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

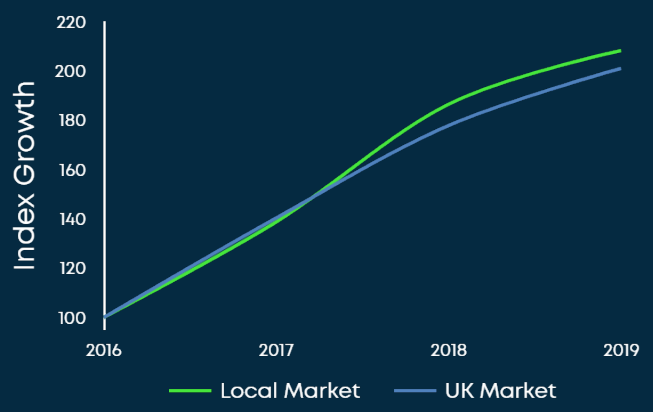


Market Growth

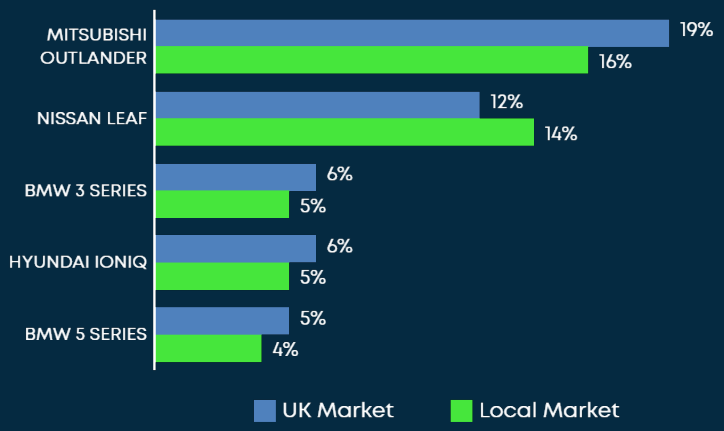
Average

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



03 Local Charging Network

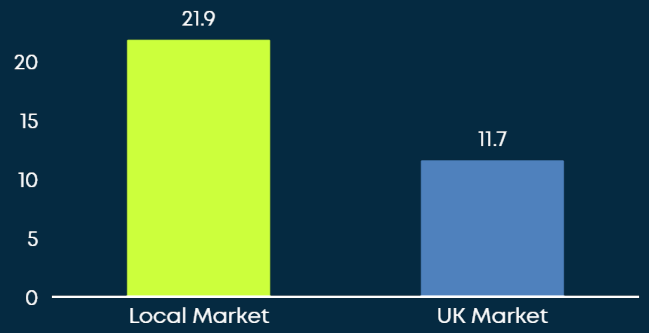
Supply Score: 71%

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

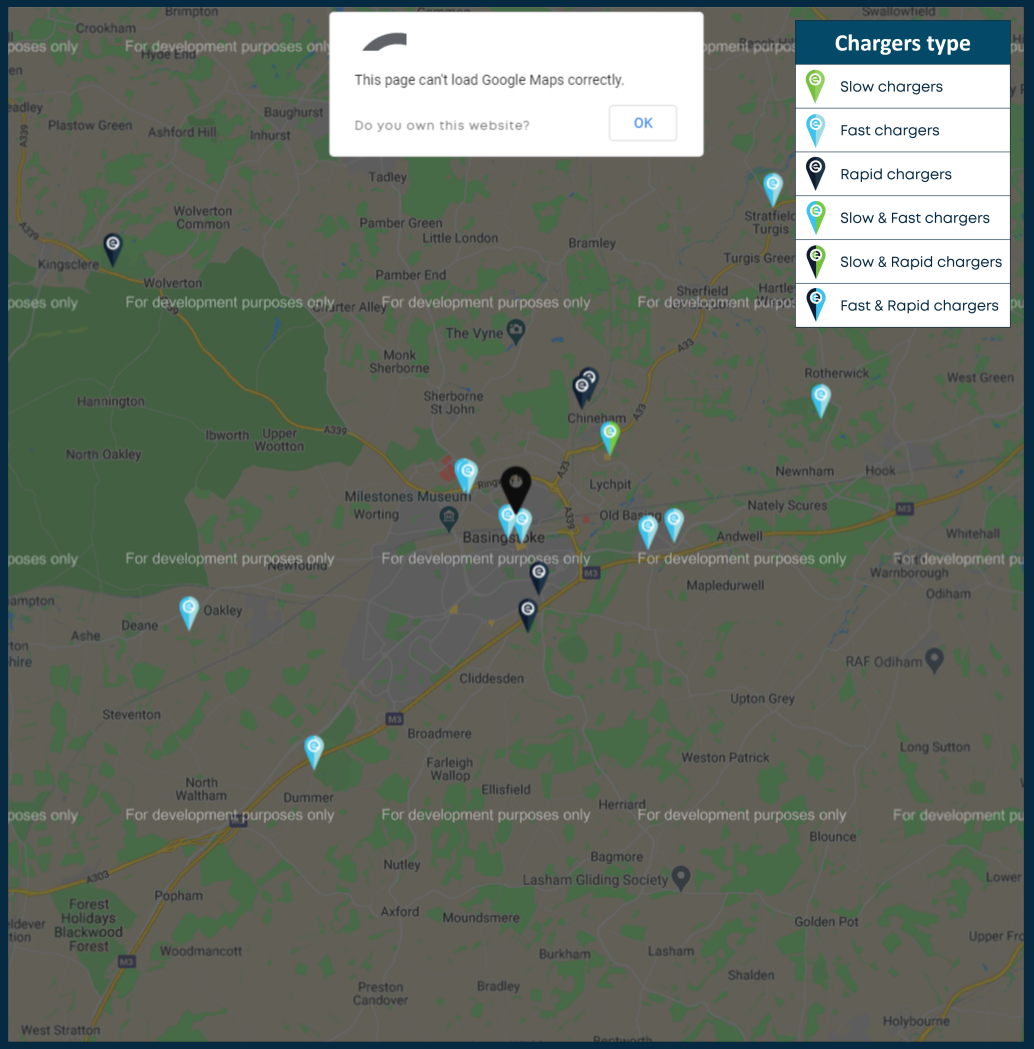


Network Speed

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



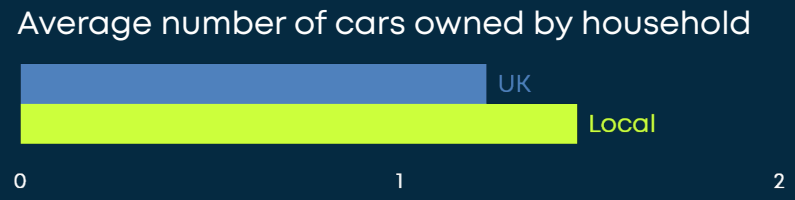
04 Local Area Indicators

EV Adoption Score: 118%

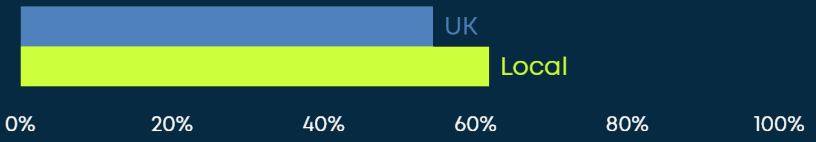
190,105 People

77,577 Households

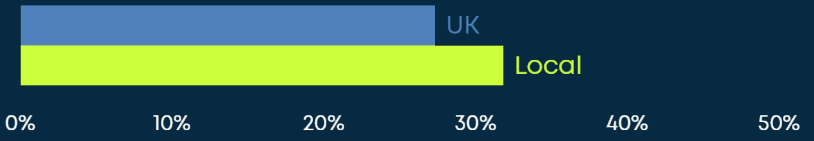
Car Ownership
Above Average



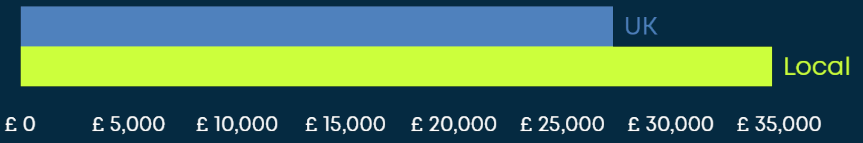
Drive to Work
Above Average



Higher and Continued Education
Above Average



Wealth
Above Average



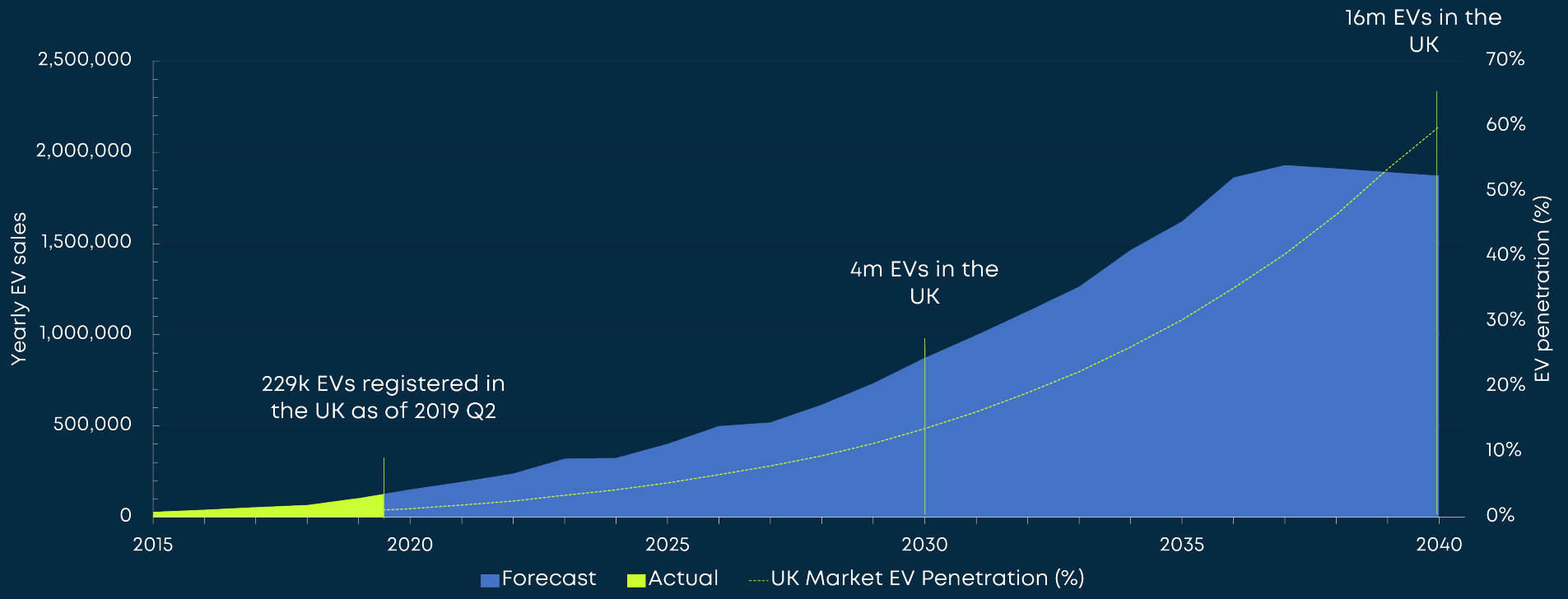
05 Projected Charging Infrastructure Requirement

Forecast

UK EV deployment rates forecasts, combined with assessment of the local market strength (EVIab 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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