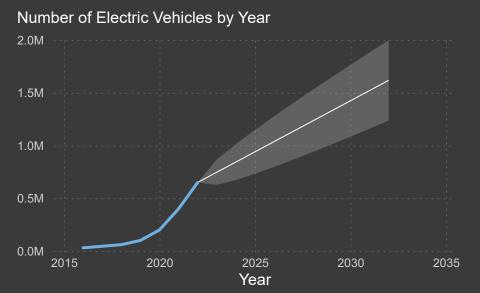
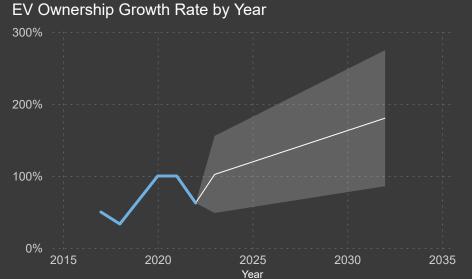
Understanding The EV Charger Market Potential for PikaSpark

Navigate to

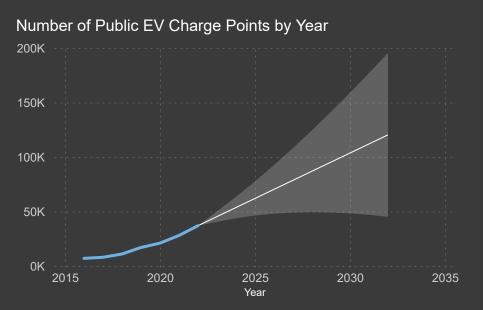
Traffic and Competitor Data

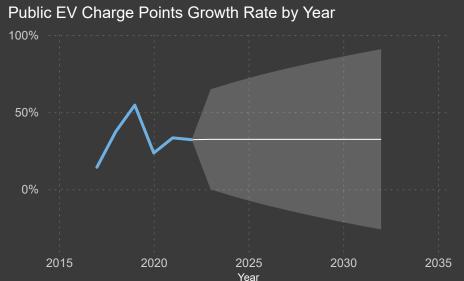




Projected Growth Rate EV Ownership

68.75%





Projected Growth in Number of Public EV Charge Points

32.56%

Top Roads to Invest In

M5

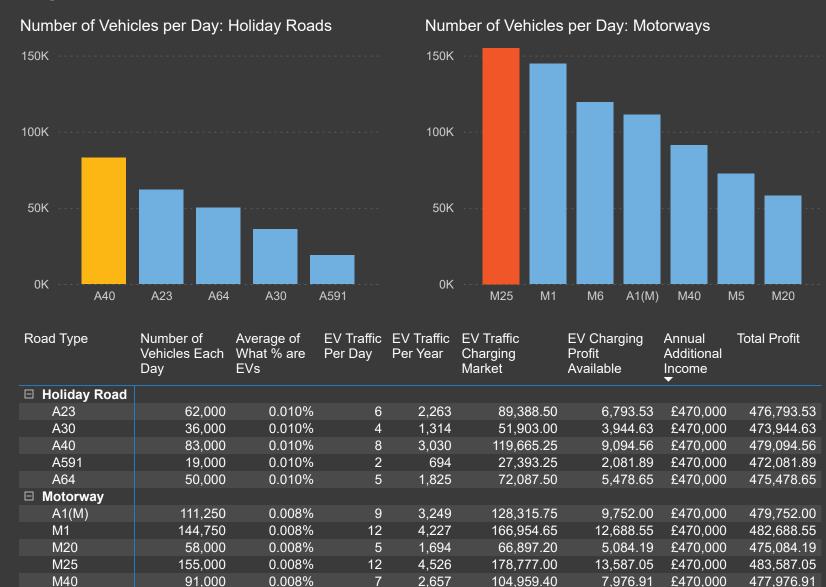
M6

72.250

119,500

0.008%

0.008%



2.110

3,489

10

83.333.15

137,831.30

Assumptions

- Traffic per day represents what we can expect to have on any point on the road.
- Percentage of vehicles that are EV is correct.
- Annual additional income is constant regardless of location, and other factors that affect customer spend in shop and other amenities. For example
- · number of passengers per car
- customer behaviour and motivations, i.e. average spend of holiday vs motorway customers.

Summary

476.333.32

480,475.18

6.333.32 £470.000

10,475.18

£470,000

Based on market share and profitability data:

Top Holiday Road

Top Motorway

A40

1714

8 Cars per day

12 Cars per day

Number of Chargers

Navigate to

Traffic and Competitor Data

Based on market share and profitability data

Minimum number of chargers per forecourt (start of year 1) = 1

Maximum number of chargers per forecourt (start of year 1) = $\frac{2}{1}$

Taking projected 68.75% growth in EV ownership into account gives

Minimum number of chargers for forecourt (start of year 6) = 13

Maximum number of chargers for forecourt (start of year 6) = $\frac{28}{100}$

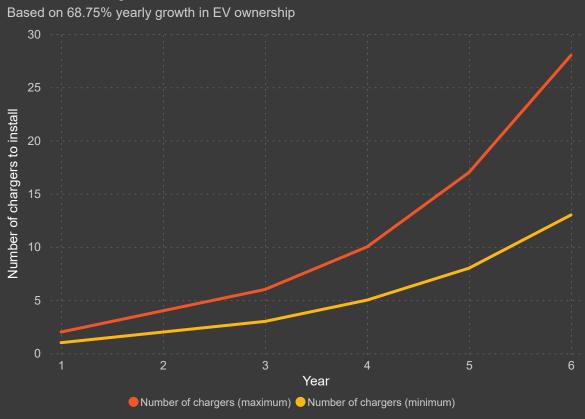
However

- EV charging technology is changing rapidly meaning increased ability for owners to charge at home and likelihood of faster charging technology in coming years.
- As the number of EV vehicles owned rises, so does the number of public EV charge points (competition).
- Our model assumes projected growth in EV sector will continue at a steady rate. Many factors we haven't been able to consider may mean this is not the case!
- Typical maximum number of chargers installed by current competitors is 5 chargers, although this may be alongside other fuel options or amenities.

Reduce risk, add resilience

- Plan for two phase project. Install charge points to meet demand up to year 3 or 4 then re-evaluate demand and technology available.
- Partner with existing companies for destination charging and lower capital expenditure.
- Use further data sets to better understand market and obtain more accurate projections.





Top Holiday Road
A40

8 Cars per day

Top Motorway M25

12 Cars per day

Meet demand with

up to 28

EV Chargers

Return on Investment

Navigate to \rightarrow Traffic and Competitor Data

Initial Investment **EV Chargers** £1,710,000 28

Average Charging Price £39.50

Average Charging Cost £36.50

Average Profit Per Car £3.00

Key Data

£470,000 Annual Additional Income	£330.22 Total Annual Charging Profit	£470,330.22 Total Annual Profit
68.75% Annual EV growth rate	3.64 Average ROI time (years)	2.93 Average ROI (years) with EV growth rate

Profit per Charge: Grouped

Price Group	Count	Average Charging Cost	Average Charging Price	Average Profit
£25 to £49	44	£33.62	£36.39	£2.77
Above £50	35	£57.42	£62.14	£4.72
Unde £25	31	£16.96	£18.35	£1.39
Total	110	£36.50	£39.50	£3.00

A40

£479,094.56 Total profit	3.57 ROI time (years)	2.90 ROI time (years) with EV growth rate
M25		
£483,587.05 Total profit	3.54 ROI time (years)	2.89 ROI time (years) with EV growth rate

Profit per Charge: Individual Vehicles

Car ID	Charging Price	Charging Cost	Charging Profit
32	£13.00	12.01	0.99
65	£13.00	12.01	0.99
104	£13.00	12.01	0.99
110	£13.00	12.01	0.99
25	£14.00	12.94	1.06
57	£14.00	12.94	1.06
95	£14.00	12.94	1.06
11	£15.00	13.86	1.14
62	£15.00	13.86	1.14
21	£16.00	14.78	1.22
50	£16.00	14.78	1.22
67	£16.00	14.78	1.22
Total	£39.50	36.50	330.22

Assumptions

- Charging costs and sales data provided represent the sales for the forecourt for a given year (2022).
 Payback period is calculated based on the investment of £1.71m (28 chargers and cost of forecourt).

Traffic Volume and Competitor Data

Existing Public EV Charger Locations

UK Government National Chargepoint Registry



Road Name	EV Charger Count ▼
A1(M)	105
M1	66
A30	34
M5	19
M40	16
M25	13
A23	10
A40	7
A64	7
M6	6
M20	5
A591	3
Total	291

Note

Navigate to

Traffic and Competitor Data

No Traffic Data was available for the A591.



Recommended Locations based on Traffic and Competitor Data

Navigate to

Traffic and Competitor Data

Traffic Camera Locations (Orange) and Existing Public EV Charging Points (Blue).



Top Locations

Road	Number of Cars and Taxis Traffic per Day	Distance to Nearest Competition	Distance to A30 Roundabout	Distance to M3 Roundabout	Distance to M4 Roundabout
□ M25					
Junction 11 to Junction 12	4,422.75	9.60	7.90	1.00	12.60
Junction 15 to Junction 16	4,489.34	20.60	8.10	14.80	4.40
Junction LA Boundary to Junction 12	4,564.23	14.20	4.80	5.90	7.90
Junction 14 to Junction 13	4,809.38	14.50	1.00	7.90	6.50
Junction LA Boundary to Junction 14	5,501.70	19.40	6.50	12.60	1.00

Closest Competition

Owner Information	Description
Care of Mer	EBC Hollyhedge Car Park 1 EBC Hollyhedge Car Park 2 Hollyhedge Road Car Park, Elmbridge
Gridserve	GS10049 GS10050 GS100 51
N/A	Hilton Cobham
Equans EV Solutions	Starbucks Cobham
N/A	Woodlands Park Hotel

Top 2 Locations

- 1. M25 Junction LA Boundary to Junction 14.
- 2. M25 Junction 15 to Junction 16.

Justification

- · High traffic volume per day.
- Distance from closest competition.
- Proximity to nearby roundabout/ motorway for easy access.

Notes

Competitiors in the area have less than 5 Chargers per location.

Sources

Sources Used:

- 1. Traffic Data: https://roadtraffic.dft.gov.uk/downloads
- 2. Location of charging points https://www.gov.uk/guidance/find-and-use-data-on-public-electric-vehicle-chargepoints
- 3. UK Postcodes to Lat Long- https://github.com/dwyl/uk-postcodes-latitude-longitude-complete-csv
- 4. UK Postcodes and Lat Long https://download.geonames.org/export/zip/
- 5. UK Postcodes and Lat Long https://www.doogal.co.uk/PostcodeDownloads
- 6. UK Postcodes and Lat Long https://findthatpostcode.uk/
- 7. https://cdn.fleetnews.co.uk/web-clean/1/root/car-ownership-by-region.png

