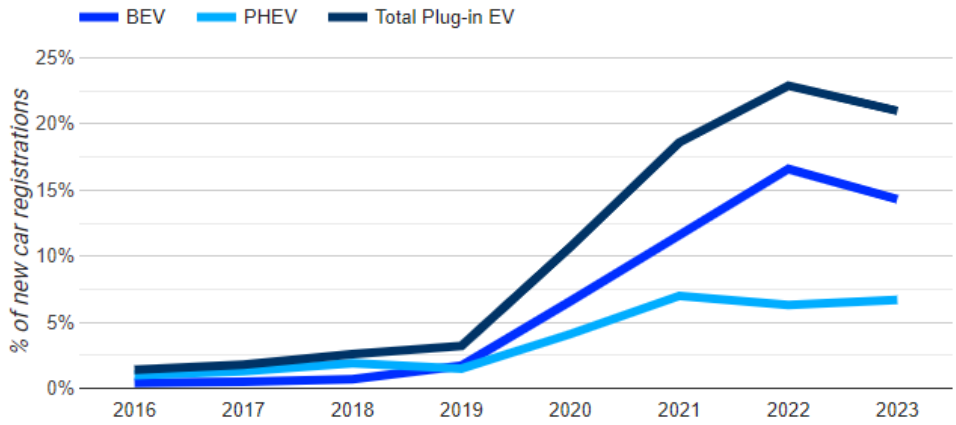
Electric vehicle Fact and figures:

Vehicle Registrations

- Plug-in EV's made up **22.9%** of new vehicles sold by the end of December 2022. (**16.6% BEV** and **6.3% PHEV**) In 2020, this was **10.7%** of new vehicles sold.
- At the end of February 2023 on UK roads there were more than **1,155,000 plug-in cars** with approximately **690,000** battery-electric cars, and a further **460,000** plug-in hybrids.[1]
- 4.5% of road vehicles in Britain are electric.[2]
- More than **265,000** battery-electric cars were registered in 2022, a growth of **40% on 2021**.[3]
- Electric vehicle registrations continue to rise in absolute numbers, with 17,033 new registrations in February 2023 (12,310 BEVs and 4,723 PHEVs), the market share last month was 22.8% and giving BEVs a market share of 16.5% of all new car registrations.[4]

Annual market share – plug-in market share of new car registrations (2016 to date)



Source: SMMT, February 2023

Changing perspectives

- **52%** of 16 to 29-year-old adults who own a conventional vehicle said they were either likely or very likely to switch to electric in the next 10 years.
- **54%** of 30 to 49-year-olds said that they were likely to switch to electric in the next 10 years.[5]

EV Vs ICE price comparison –

- The cost of a breakdown for an EV is 2.7 times more than that of an internal combustion engine car.[6]

[1] Electric Car Sales: How many electric cars in the UK 2023? - Zap-Map
[2] https://www.theecoexperts.co.uk/electric-vehicles/ev-statistics
[3] Zap-Map
[4] Zap-Map
[5] Survey finds that over half of younger drivers are likely to switch to an electric car in next 10 years – Nathaniel Cars
[6] Breakdown costs 'almost three times higher' for an EV than ICE vehicle | Electric fleet news

- Generally, EVs cost around 12% more to insure than ICE vehicles – more expensive to buy and repair.[7]
- Repair costs are also higher, deriving from the average higher costs of vehicle components; as well as lower technician availability to repair EVs.[8]
- Higher depreciation values for Electric vehicles due to technological advancements in range, battery efficiency, weight reduction etc.

		2020			Apr-22			Mar-22		
	Average driving distance	Fuel cost	Average cost per mile	Cost per 10,000 miles (average annual milage)	Fuel cost	Average cost per mile	Cost per 10,000 miles (average annual milage)	Fuel cost	Average cost per mile	Cost per 10,000 miles (average annual milage)
Petrol (unleaded)	8 miles per litre	127p per litre	15.9p	£1,590	162p per litre	20.25p	£2,025	147p per litre	18.4p	£1,837
Diesel	9.5 miles per litre	131p per litre	13.8p	£1,380	177p per litre	18.6p	£1,863	168p per litre	17.7p	£1,768
Electric (domestic)	4 miles per kWh (m/kWh)	19.6p per kWh	5p	£500	28p per kWh	7p	£700	34p per kWh	8.5p	£850

Electric infrastructure[9]

Number of **total** Vehicle charging Device statistics -

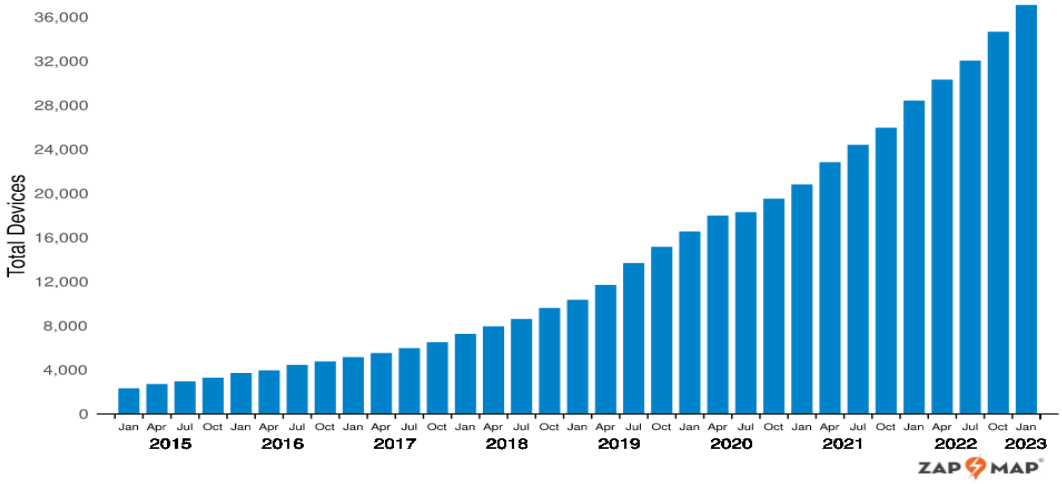
Region-	Totals	Per 100,000
UK	37,055	55.3
GB	36,689	56.3
England	31,466	55.7
Wales	1,465	47.2
Scotland	3,758	68.6
Northern Ireland	366	19.2

Rapid chargers

Region:	Totals	Per 100,000
UK	6,887	10.3
GB	6,861	10.5
England	5,631	10
Wales	283	9.1
Scotland	947	17.3
Northern Ireland	26	1.4

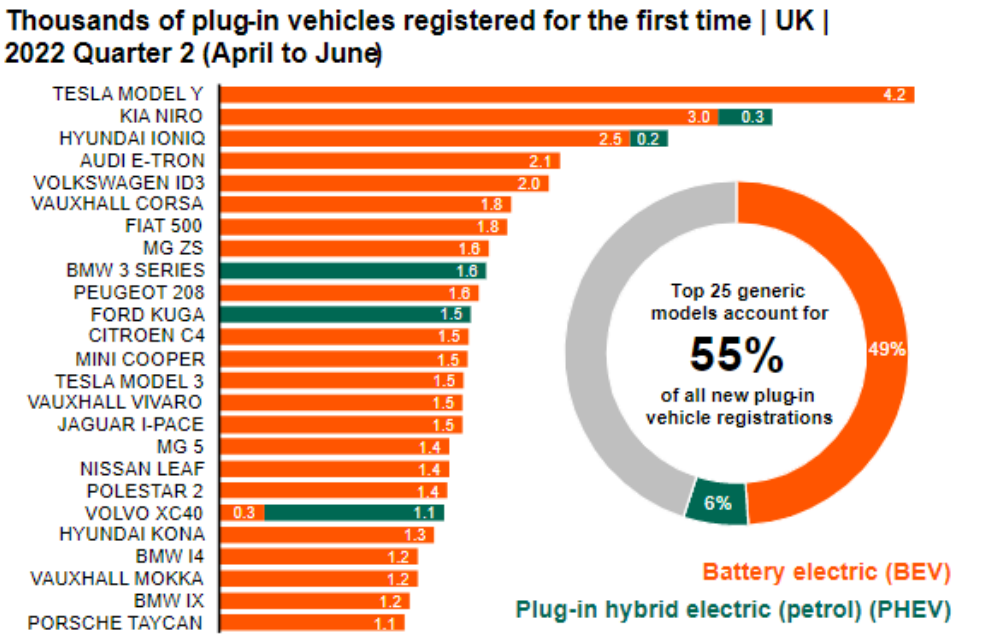
Above data correct as of Jan 1st, 2023

[7] Comparing costs of EVs vs ICE vehicles | LeasePlan International
[8] https://www.forbes.com/uk/advisor/car-insurance/does-it-cost-more-to-run-an-ev-or-an-ice/
[9] UK Gov - *Electric vehicle charging device statistics: January 2023, Published on 25 January 2023* (Electric vehicle charging device statistics: January 2023 - GOV.UK (www.gov.uk)).



- As of 1 January 2023, there were **37,055** public electric vehicle charging devices installed in the UK
- 6,887 were rated "rapid" devices or above, this represents **19%** of all charging devices.
- 21,225 were rated "fast" chargers, this represents **57%** of all charging devices.
- Since 1 January 2022 the number of installed public devices has increased by 8,680, a **31%** increase.
- The number of rapid charging or above devices increased by **34%**, an additional 1,731 public devices installed.
- Home charging is generally cheaper than public charging and BP Pulse reckons that 80% of electric car owners plug in on their driveway.[10]

Current UK Electric Vehicle parc composition:



[11]

[10] https://www.carmagazine.co.uk/electric/how-much-ev-charging-and-running-cost/

[11] https://www.gov.uk/government/statistics/vehicle-licensing-statistics-april-to-june-2022/vehicle-licensing-statistics-april-to-june-2022 - *Note: For each of the previous 11 quarters, Tesla Model 3 was the most common generic model for new plug-in vehicle registrations*.