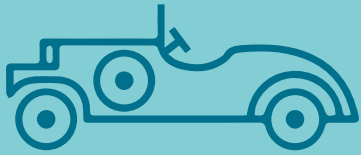


# The electric era has arrived

- some interesting facts about electric vehicles





# 1832

Robert Anderson developed the first crude electric vehicle



The electric car market is growing quickly. There were more than 1,500,000 plug-in cars with approximately 950,000 BEVs and 570,000 PHEVs registered at the end of November 2023

## 3 x less



Electric cars generate 3x less CO<sub>2</sub> on average than their ICE counterparts<sup>1</sup>

Cheaper to maintain than ICEs due to less moving/wearing parts

ICE

EVs

150

Moving Parts

24

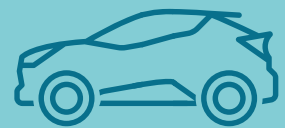
24

Wearing Parts

11



Drivers of electric vehicles are exempt from Congestion Zone and Clean Air Zone charges



only battery electric or hydrogen fuel cell vehicles are eligible for the Cleaner Vehicle Discount in London's Congestion Charge Zone

## Chargers

Example: Toyota bZ4X (286 miles)



Slow Charger  
(3.6kW)

20 hours

from empty to full

Home/ Work



Fast Charger  
(7kW)

10 hours

from empty to full

Home/ Work/ Public Locations



Rapid Chargers  
(150kW)

20 mins

from empty to full

Public Locations



# 8 year warranty

Most manufacturers offer an eight year or 100,000 mile warranty for their EV batteries

10 years

The current prediction is that an electric car battery will last 10-20 years before they need to be replaced

20 years



## London

has the most EV charging points, followed by the South-East



According to Zapmap, the number of rapid and ultra-rapid charging points in the UK has increased to 9,992 units



# >53,000

public charge points  
in the UK



There are currently more than 53,029 public electric vehicle charging devices available in the UK, often located in supermarkets, shopping centres, public car parks, hotels and sometimes service stations



More than

# 50,000

electric vans in the UK as of October 2023



# 70%

of van drivers drive less than 62 miles a day, making electric vans perfect business vehicles



# 25 miles

Drivers are currently never more than 25 miles away from a rapid charge point anywhere along England's motorways and major A roads

## Types of Electric Vehicles

### BEVs

Battery  
Electric Vehicles  
(electricity only)

### HEVs

Hybrid Electric  
Vehicles  
(electricity, petrol/diesel)

### PHEVs

Plug-in Hybrid  
Electric Vehicles  
(electricity, petrol/diesel)

### E-REVs

Extended Range  
Electric Vehicles  
(electricity, petrol/diesel)

### FCEVs

Fuel Cell  
Electric Vehicle  
(electricity, hydrogen)

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