



Frequently Asked Questions on switching to an Electric Vehicle (EV)

Question	Answer	Reference
How long does it take to charge an EV?	Superfast charger – 15 mins Fast charger – 30 mins Standard charger – 2 to 3 hours 3 pin plug – 6 hours	Podpoint article on charging times for EV's: https://tinyurl.com/HACCwhet2uht
How far can you travel before recharging the battery?	Real world data on range: VW E-golf - 120 Renault Zoe - 200 Nissan Leaf - 239 Hyundai Kona - 250 Tesla Model S - 320 Kia Niro - 253	Buy-a-car review: https://tinyurl.com/kjxbpfxa Note: the average car journey distance in the UK is 8 miles
Is there a Gov. Grant towards buying an EV?	Yes – at the moment this is £2500	Reference to https://tinyurl.com/HACC3mtjwcxh
Do tyres wear out quicker on an EV?	Yes, this can happen but it can be reduced by using tyres with lower rolling resistance and accelerating slower	See article from https://tinyurl.com/HACC4k7k68vh
Which charging cable do I need for my EV?	There are several different charging cables available depending on the age and make of the car	The essential guide to cables, connectors and charging - https://tinyurl.com/HACC57x4mf4n Note: most vehicles come with one main charging cable
Do I need to install a charger at home?	No, there is a good network of chargers in Hertford. If you want to install a charger at home, there is an upfront cost, but you save money by charging on cheap rate overnight	Electrifying.com https://tinyurl.com/HACC57x4mf4n
How do I find charging stations?	Use the Zapmap App to find commercial + domestic chargers	Zapmap: https://www.zapmap.com/live/
What are the savings on fuel costs?	About 50-60% cheaper e.g. Mini: £1993 over 3 years Peugeot 2008: £1664 over 3 years	Comparison of identical electric and petrol versions of the same car "Which" Magazine article August 2021
What are the savings on road tax for an electric vehicle?	No vehicle tax on fully electric vehicles e.g. Saving of £490 per year for a Mini and £530 per year for a Peugeot 2008	See "Which" Magazine reference above

Do electric vehicles really have a lower carbon footprint than petrol/ diesel cars?	Yes - emissions over the lifetime of average medium-size EV's are already lower than comparable gasoline cars by 66%–69% in Europe	International Council on Clean Transportation publication 20th July 2021 –The study considers every stage in the life cycles of both vehicles and fuels, from extracting and processing raw materials through refining and manufacture to operation and eventual recycling or disposal.
What are the savings on servicing costs?	40% cheaper for an EV Mini – saving of £288 p/a Peugeot 2008 - £199 p/a	Comparison of identical electric and petrol versions of the same car for a Mini and Peugeot 2008– “Which” Magazine article August 2021
How long does an EV battery last?	The average decline across 6000 EV's was 2.3% per year. This means a new EV with a 150 mile range loses about 17 miles of range after 5 years	Geotab article 7th July 2020. https://tinyurl.com/HACC3snud3rj - real world performance on 6300 fleet and consumer EV vehicles – 1.8 million days of data.
How does temperature of the climate impact EV range?	The range of EV's reduces by about 20% when driving at cold (0°C) and hot (40°C). The optimum temperature for driving range is about 21°C	Geotab article 25th May 2020 - https://www.geotab.com/blog/ev-range/
Why are battery powered cars the best option right now?	Hydrogen cell vehicles are currently much less efficient than battery driven cars. There is very limited infrastructure for refuelling with hydrogen	Electrifying.com – Powering the future; why batteries are the best option right now - https://tinyurl.com/HACC3xs666ts
How do you best extend the battery life?	Keep battery charge between 20 and 80%. Top up little and often.	Geotab article 7th July 2020. https://tinyurl.com/HACC3snud3rj - real world performance on 6300 fleet and consumer EV vehicles – 1.8 million days of data.
What is regenerative braking and how does it help extend mileage?	In a normal car energy is lost when you slow down. In an EV this energy recharges the battery.	Article: What is regenerative braking https://tinyurl.com/HACC5axbcjvx
Where can I get user friendly help on EV's	The LovemyEV website has very useful information on how to switch to an EV and clean energy	See the website at www.lovemyEV.com
Is there an online marketplace for EVs?	The EV Marketplace deals only in electric cars, electric motorcycles and electric boats. There are plenty of other websites but usually not dedicated exclusively to EVs	See the website at https://theevmarketplace.com/



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