



Electric Vehicle Survey Summary

**North Lincolnshire Council
June 2021**

In March and April 2021 North Lincolnshire Council undertook a survey seeking residents views on Electric Vehicles (EVs).

The survey received a total of **269 responses**.

Key Facts

- 11% of respondents owned an EV and 82% of them owned a full Battery Electric Vehicles (BEVs).
- 4% of respondents are planning to purchase an EV in the next 12 months, with 18% considering purchasing one in the next 12 months.
- 90% of EV owners parked on a private driveway overnight.
- There was a clear sense of scepticism towards adoption of EVs with the main barriers being the lack of high-quality charging infrastructure (30%), cost of purchasing an EV (29%) and limited driving range (25%).

Survey

The Government have announced the end of the sale of new petrol and diesel cars in the UK by 2030. This will put the UK on course to be the fastest G7 country to decarbonise cars and vans. Funding of £1.3 billion has been announced to support charging infrastructure.

As a result, North Lincolnshire Council sought views of residents through a 10-question survey to ensure views are heard before delivering the infrastructure to make a mass switch to electric vehicles in the next decade.

Summary

This survey clearly showed that there is an appetite for EVs within North Lincolnshire, with results showing 11% of respondents owning an EV. Despite this there was a strong sense of scepticism, uncertainty, and impracticality surrounding the mass adoption of EVs. However, in the next 12 months, Q5 showed 18% of respondents might buy and 4% plan on buying an EV (see figure 1 below). Therefore, public charging infrastructure does need to be carefully considered to facilitate this growth.

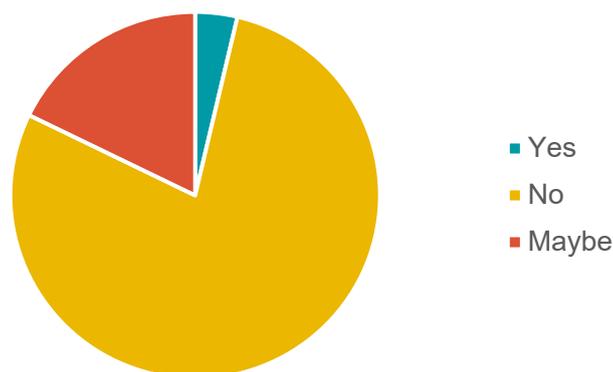


Figure 1 - Q5. Are you planning on purchasing an EV in the next 12 months?

Following this, out of those who indicated they were either planning to buy or might buy an EV in the next 12 months, Q6 showed of those potential purchases 53% favoured plug-in hybrids and 44% full BEVs (see figure 2 below). This is an important % to note as the choice of vehicle will determine dependency on residential and public charging infrastructure.

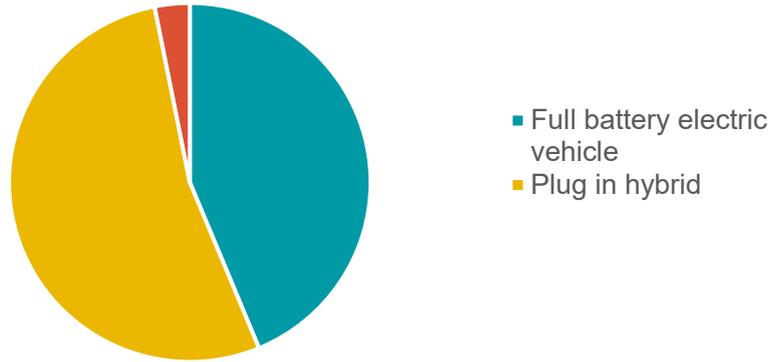


Figure 2 - Q6. If you are planning to buy an EV, please select the type you plan on buying.

As the survey progressed and began to explore public charging infrastructure, it was clear from Q9 (figure 3) that the preferences for charge point locations were spread evenly across the below locations. However, the top two which were slightly more popular compared with others were town centre and out of town retail car parks. There are many other areas which the council will also need to consider in future rollouts.

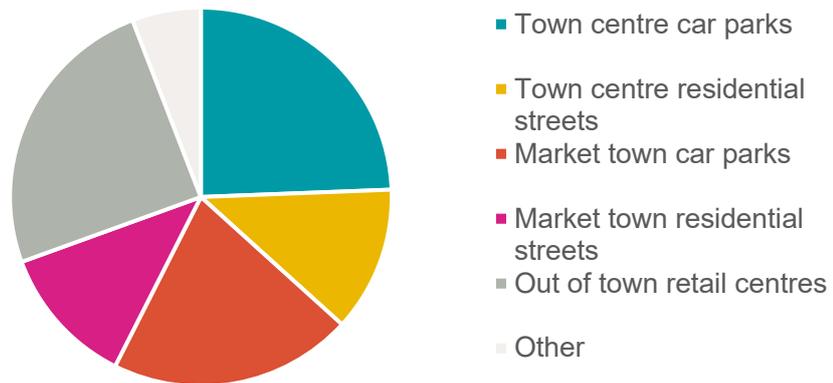


Figure 3 - Q9. In what areas of North Lincolnshire would you like to see more EV charge-points located?

Once demand and infrastructure had been explored, Q8 in the survey began investigating the main barriers to uptake within North Lincolnshire. The main barriers were very much in line with the national uptake with limited charging infrastructure, range anxiety and cost of EVs being the dominant three (see figure 4 below).

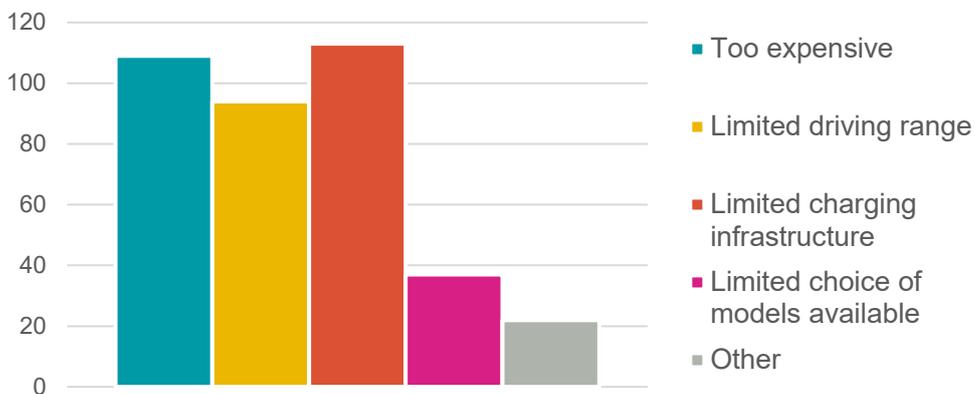


Figure 4 – Q8. What are the main barriers to you purchasing an EV?

Finally, Q10 then allowed respondents to provide their own views and comments regarding EVs and the responses were collated into the categories below. This is where the sense of scepticism, uncertainty, and impracticality were evident.

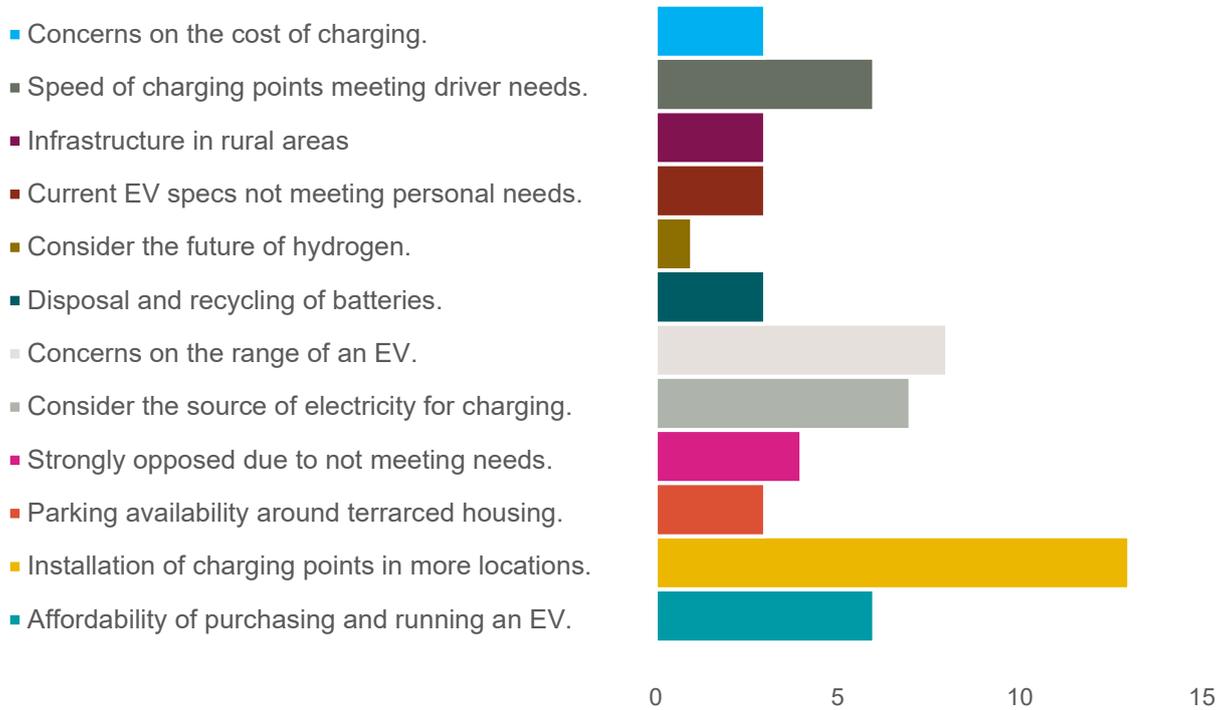


Figure 5 – Q10. Any other comments?

Examples

“EVs need to be affordable and there needs to be more points to charge in Scunthorpe and the surrounding villages.”

“Range needs to improve greatly for me to buy one. I normally drive 3-500 miles in a day, not possible without stopping to charge for one - 2 hours not practical”

“Technology not close to making them practical for rural users and towing.”

“Charging points associated with solar panels/local turbines.”

“Cost needs to come down considerably if this is to work.”

Outcomes

- In conjunction with other Lincolnshire Councils, North Lincolnshire Council have begun developing an Ultra-Low Emission Vehicle Strategy for the region.
- Funding streams and operating model options are starting to be explored through engagement with relevant suppliers.
- Sites identified and practicalities raised in this survey are being considered.
- Potential application to an OLEV On Street Residential Charging grant scheme in 21/22. If successful, this would allow the delivery of charging points in certain local authority car parks which meet the criteria.