

The case for a public electric vehicle charging point in Binham - background notes

2020 - the year of the electric cars.

- The Government has indicated it will ban the sale of diesels, petrol and hybrid cars from 2032.
- Some 70% of car buyers are considering making their next car an electric one (*Source Air Quality News 19.2.2020*)
- EU Regulations starting in 2020 cut the overall CO2 emissions of car manufacturers - we may not be bound by these Regulations but they will affect the models of cars available.
- Car magazine says that last December there were some 50 cars that charged from electricity (many of them hybrids), this year a further 34 models will come on the market and next year the predicted number is 160. Meanwhile the Financial Times puts numbers for 2020 above 170! It's a lot whatever the basis of these figures.
- New models likely to be very popular in 2020 include an all electric Mini Cooper, a Corsa E, the VW ID3, the Audi Etron and a longer range Nissan .
- The mileage range of electric cars had increased substantially in the past 12 months.

Different types of chargers

In Binham new EV owners are likely to install EC chargers on or at their home. These will be 7kW chargers (called **fast** chargers but actually quite slow!) which can usually take around 6-11 hours to fully charge a car. **Rapid** chargers rated at 50kW usually take less than an hour to bring a car from 20%-80% charge. These are the two main outputs for chargers although many others exist eg 3kW, 22kW, 100kW and 150kW.

Public charging points often have two or more connectors. However, Tesla and Nissan were early in the field and many charging points only serve such cars eg Glandford Art Café, Back to the Garden. The standard **Type 2 7kW** connector and **Type 2 CCS 50kW** will fit most new cars.

The expected demand in Binham.

No-one can predict the exact demand in Binham. North Norfolk Council recently received a Government grant to help install 38 connectors in 6 car parks this year- Cromer, Wells, Sheringham, Holt, North Walsham, Fakenham.

Whilst some home owners may start installing 7kW there will be no 50kW. Such a charger will be important for people visiting or staying with friends in Binham, people occupying holiday accommodation, people stopping off to use the Chequers, Trevor's the Milk Dairy who might then prolong their stay slightly.

So at least one charging point with a Type 2 50kW and one Type 2 7kW connector would be a great asset for the village and in some cases is going to make the difference between people visiting Binham and its businesses and not visiting. Government grants are available for charging points but how Parish Councils can apply is not known.

Conclusion

Is this something that Binham Parish Council should explore to see if there are any funding options for future proofing the village as electric vehicles take greater place in our lives.?

BPC would also need to consider where such a charging point (s) would be installed.

If it was a chargeable cost to the end user for use who would benefit and what are associated costs?

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