

Cardiff City Council

BACKGROUND

Cardiff has fewer electric vehicle (EV) charge points compared to other Core UK Cities and the uptake of EV lags behind. The car is the dominant mode of travel within and to Cardiff. There is a legal obligation to mitigate NO2 noncompliance as well as 40k new homes and jobs projected by 2026, so the pressure is on the Council to make improvements. Cardiff County Council was looking for a robust feasibility study to explore how Ultra Low Emission Vehicle charging points can be integrated across the Authority.

CHALLENGE

- Different technologies & technical specifications, customer needs, pricing models and tariffs, delivery models, service providers and procurement methods all create a confused and fragmented market
- No policy requirement for new developments to provide EV charge points
- Recent regulation changes has meant delivery of on-street chargers more challenging
- Fleet managers lack the skills and experience to deliver large scale changes
- EV Strategy needs to complement Sustainable Transport Strategy - reducing the need to travel by car
- Roll out of EV buses requires commitment (including financial) from bus operators
- Drive to introduce EV taxis dependent on Wales wide taxi licence review

SOLUTION

The Arcadis feasibility study was conducted for use by internal Council departments to provide a decision-making framework for the installation of an EV recharging network.

- Set out the EU, UK and Welsh Government Policy Context
- Benchmark the uptake of EV and available chargers in Cardiff compared to other UK Core cities
- Provided an overview of the current vehicle and infrastructure technologies
- Provided examples of delivery models
- Guidance on choosing the recharging locations
- Provided a '8 point' step-by-step guide on how to deliver a recharging network

IMPACT

The results from the study enabled a decision-making framework to support the achievement of its clean air strategic objectives. The network delivery step by step guide that we created can be adapted for use by other cities.