



Customer Scottish and Southern Electricity Networks (SSEN)

Size of project £4.8m (\$6.2m)

Start date January 2013

End date December 2015

My Electric Avenue was a pioneering, regulator-funded project that undertook trials with over 200 customers to determine the impact clusters of charging electric vehicles (EVs) might have on local electricity networks, at peak times. This was the first project to ever focus purely on the impact that EVs will have on the local electricity network.

EA Technology was responsible for leading the project, including bringing on board all project partners. This was a first for a non-utility participant. Within this, EA Technology was responsible for the overall project management comprising of managing the project finances as well as partner/supplier contract management and liaison.

The project recruited over 200 people in different clusters around Britain where each person would drive an EV for 18 months utilizing a new technology, 'Esprit' which was developed by EA Technology. Esprit monitors and controls the electricity consumed when charging an EV, and can curtail the charging at peak times. This allows the strain on the network to be measured while assessing potential routes of mitigation to avoid network reinforcements. Forecasts suggest that Esprit could save around £2.2 billion (\$2.9B) in system upgrade costs up to 2050.

EA Technology's role included the provision of the technology for the trials, which will assist utilities to make networks more efficient by shifting demand at peak times to help maintain voltages.

Throughout the trials, participants' charging habits were also monitored and the data has been analyzed by EA Technology. Key learning from the project suggests that during weekdays, charging is more likely to be before and after work (creating a morning and night peak) whereas on weekends charging is more likely to be between 10am and 6pm. In addition, approximately 70% of the EVs were only charged once a day and more than 65% of vehicles were charged until the battery was full. These findings have led to further research within the 'Smart EV' and 'Electric Nation' projects.

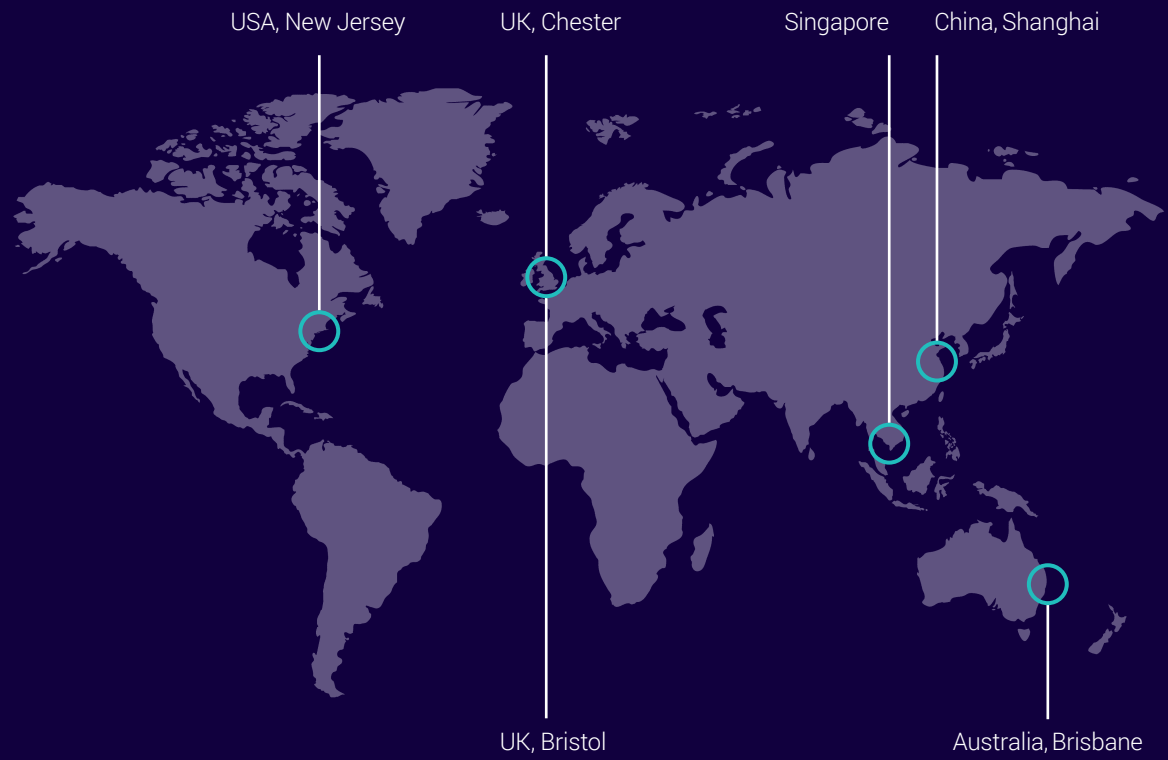
My Electric Avenue was the first step in demonstrating the effect of rising EV ownership on local electricity networks. As a result of the project, EA Technology has founded the EV Network Group, combining the automotive and utilities sectors to support the increased popularity of EVs, benefiting both the customer and the industry.

Project Partners:

- EA Technology
- Scottish & Southern Electricity Networks
- Nissan
- DriveElectric
- Zero Carbon Futures
- Northern Powergrid

Global Footprint

At EA Technology we specialize in asset management solutions for owners and operators of power network assets.



Founded in 1966 we have over 50 years' experience in the industry and 6 regional offices around the world to support our global customer base.

We work with a lot of our clients on a long-term basis to help them safeguard their power networks.

We advise our clients on strategy and implementation of a range of technology solutions to manage power assets, delivering maximum life and minimize cost.

Safer, Stronger, Smarter Networks



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