

Q&A: Distribution Future Energy Scenarios (DFES) and Electric Vehicles (EV) webinar

1. Will you share the slides following the webinar?

We will be sharing the slides from the webinar- www.westernpower.co.uk/energy-data-hub.

2. Will you have a central management programme for EVs including Vehicle to Grid (V2G) at scale?

No, it is not the Network Operators role to manage domestic low carbon technologies or generation. We are here to provide the network that supports this.

For domestic demand, tariff signals and suppliers are offering a move away from peak times.

Suppliers and aggregators can get involved with our flexibility services, developing short time/ short term will allow our management, called Connect and Manage, to throttle back electric car charges if they are causing us a problem whilst we wait for reinforcement. This is a temporary solution.

3. What are 'harmonic effects'?

When we talk of 'harmonic effect' with regards to EVs we are talking about car charges having a lot of power electronics built into them which have an impact on smooth sound waves. The distortions that the alternating current of electricity produces can cause heating effects on our network and a reduction in capacity. We need to minimise this disruption on our network and accommodate it.

4. Should LPAs allocating strategic development (500+ homes) be requesting developers to make any provision (set aside land for WPD or related infrastructure) to allow for future EV/ storage/ generation technology? Any guidance on this?

LPAs have contacted us regarding their future plans re population growth in their area. This information has all been taken into account within our DFES.

5. Will you publish the additional cost of '3 phase' residential connections, compared to existing single phase arrangements? Need this for viability assessments.

We will publish any additional costs of '3 phase' residential connections once the trial has finished.

6. Have you engaged with the Development Planning team at Milton Keynes Council regarding the 2018 Plan: MK Local Plan?

We have been in contact with all of the LGAs planning departments regarding their Local Plan.

7. I'm putting together an Infrastructure Delivery Plan for MK to 2031. Has your analysis covered the longer term plans for Milton Keynes to grow to around 500,000 residents by 2050?

The focus of our analysis within DFES is on pre 2030. However, we are in a position to expand our vision out from 2030-2050.

8. I'd like to discuss the future plans with you so that we can build that into our IDP.

Contact Network Strategy wpdnetworkstrategy@westernpower.co.uk

9. Would there be enough capacity for more than one car per household?

Where there is more than one EV per household and where any reinforcement has gone in there shouldn't be a problem.

10. How does Net Zero legislation affect your DFES?

Net Zero massively affects our investment horizon for our network 2023-2028. We have received guidance from the regulator Ofgem, which we have included in our business plan and focuses on two scenarios. Firstly, what we think is going to happen with Net Zero and have we got delivery plans in place to achieve this. Secondly, we need to recognize that where large decarbonisation levels are set in legislation, that any reinforcement will be fit for purpose up until 2050.