

Qualcomm have demonstrated dynamic electric vehicle charging (DEVIC)—charging cars while driving—based on the supplier's Halo wireless electric vehicle charging technology. The system, they say, can charge an electric car dynamically at up to 20 kilowatts at motorway speeds.



Qualcomm also demonstrated simultaneous charging where two vehicles on the same track can charge dynamically at the same time. In the process, the vehicles can charge their batteries regardless of the direction they are driving. Charging is possible even when the vehicle is reversing.

The dynamic charging system is demonstrated at the 100-metre test track built by Vedecom at Satory, Versailles, near Paris. Qualcomm and Vedecom have integrated the ground plates of the Qualcomm Halo charging system into the test track, while Vedecom and Renault have installed the vehicle pads into two electric Renault Kangoo's.

Following the demonstration, the Qualcomm Halo charging system is to be handed over to Vedecom to perform tests as part of the FABRIC (FeAsiBility Analysis and development of on-Road charging solutions for future electric vehicles) project. The tests are to analyse the operation, safety, and efficiency of the energy transfer to the vehicles for a wide range of scenarios, including at various speeds, vehicle identification and authorisation on entering the track, mutual power level agreement between the track and the vehicle, as well as optimal alignment of the vehicle along the track.

FABRIC is a €9m project mostly funded by the European Union, addressing the technological feasibility, economic viability, and socio-environmental sustainability of non-contact electric charging. The project began in January 2014 and will continue through to December 2017.

It is being undertaken by a consortium of 25 organisations from nine European countries, including automotive manufacturers, suppliers, service providers, and research organisations from automotive, road and energy infrastructure domains.