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Renault Kangoo ZE making run down FABRIC test track in France

## Qualcomm: EV Charging on the Run

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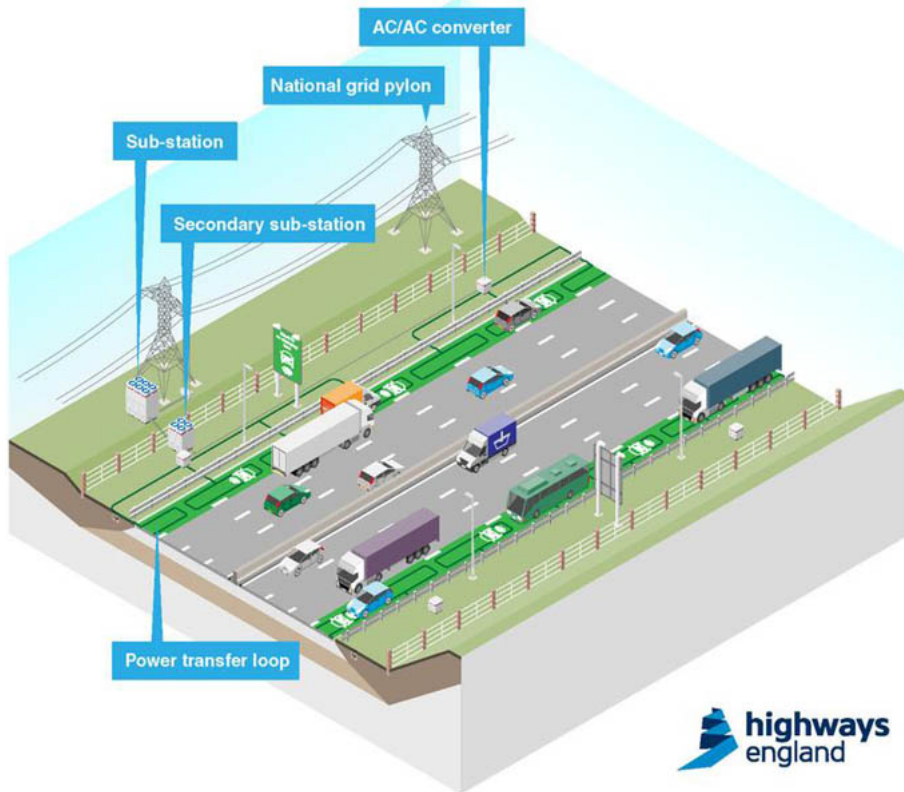
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By Bill Moore

**Qualcomm's Halo Wireless Charging GM Steve Pazol was still recovering from jet lag after flying from France back to California when EV World's Bill Moore got to talk to him about their dynamic charging tests with Renault, showing it's possible to charge EVs at highway speeds.**

If there were a way to power electric vehicles while they were moving, it could have enormous payoffs. Suddenly all concerns over range anxiety and finding working available charging stations would vanish. Additionally, electric cars wouldn't need as many batteries, dramatically reducing their cost. Instead of 80-90kWh packs costing many thousands of dollars, they could get by with small, less expensive ones for those times when they didn't have access to a wireless charging highway, like that illustrated below.



Qualcomm (<https://www.qualcomm.com/news/releases/2017/05/18/qualcomm-demonstrates-dynamic-electric-vehicle-charging>), and Renault demonstrated its feasible to charge electric vehicles moving at highway speeds of 100 km/h (62 mph) at a small 100 m (328 ft) test track outside of Paris. A pair of Renault Kangoo EV parcel vans equipped with a pair of inductive coils underneath their frames made multiple runs down the specially engineered track that technicians assembled as part of a €9m project mostly funded by the European Commission to explore the "technological feasibility, economic viability, and socio-environmental sustainability" of wireless dynamic electric vehicle charging (DEVIC).



Qualcomm isn't the only group researching in-road wireless charging. The Korean Advanced Institute of Science and Technology deployed a similar system called OLEV in South Korea (<http://evworld.com/news.cfm?newsid=30957>) in 2013 to charge two electric buses providing transit services between the train station in Gumi and the town of In-dong.

As you, no doubt, can imagine, while it's now technically feasible to wirelessly charge EVs moving down a road or highway, as opposed to "statically" charging them, which Pazol says will first shortly appear in a Mercedes model, cost is a huge barrier. He sees real world implementation being yet sometime in the future. In this 27-minute interview he discusses the challenges still facing DEVIC and where it might first be deployed.

You can listen using the embedded player or download the MP3 file to your personal computer for playback on your favorite device. And be sure to LIKE this page on Twitter and Facebook, as well as share on Reddit and other social media.



EVWORLD Future In Motion Podcast

Steve Pazol - Qualcomm Halo

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Everything I've read about wireless charging stats that it is 10% inefficient. If the alignment isn't good it can be even more inefficient. Can we afford to waste 10% of the energy we use to charge in an EVworld?

Also sitting kills so we need to get out of our vehicles and stretch and move around for our Health. The fitness of the average person could deteriorate even more than we now have.

^

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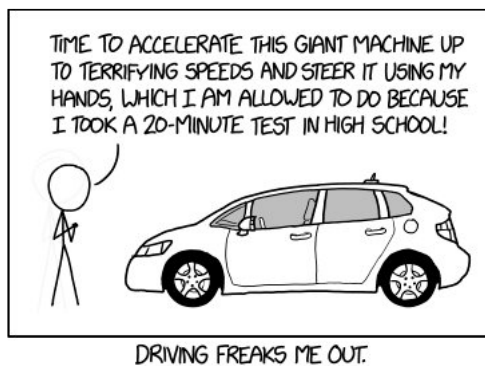
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