

Renault demonstrates dynamic vehicle charging

May 19, 2017, 2:31 pm

by Drew Johnson



Plugging in an electric vehicle could become a thing of the past.

French automaker Renault is hoping to one day eliminate the range anxiety associated with electric vehicles by helping to develop an "electric" road that can charge a vehicle as it drives along it.

Renault on Thursday successfully demonstrated its dynamic wireless electric vehicle charging (DEVC) concept on a 100 meter test track just outside of Paris. Developed with Qualcomm Technologies and Vedecom, the systems consists of a charging pad laid out on the road and a specially fitted charging system installed on the underside of a Renault Kangoo Z.E.

The concept for the project is essentially the same as a wireless charging pad you might use to recharge your smartphone. As the vehicle drives along, energy is transferred from the road below to the vehicle's battery pack. Renault says the system can currently deliver up to 20 kilowatts of electricity at vehicle speeds in excess of 100kph.

Although far from ready for a widespread rollout, Renault's DEVC system could be one potential way to increase the viability of electric vehicles. The

The DEVC project is part of a larger program known as FABRIC, which stands for FeAsiBility analysis and development of on-Road chargIng solutions for future electriC vehicles.

"Contributing to this exciting project has enabled us to test and further research dynamic charging on our Kangoo Z.E. vehicles," said Eric Feunteun, Electric Vehicle Program Director, Groupe Renault. "Our research engineers have worked very closely with the Qualcomm Technologies and Vedecom teams to complete the DEVC system integration demonstration as part of FABRIC. We see dynamic charging as a great vision to further enhance the ease of use of EVs, and the accessibility of EVs for all."

The 9 million euro FABRIC program is scheduled to run through December of this year.

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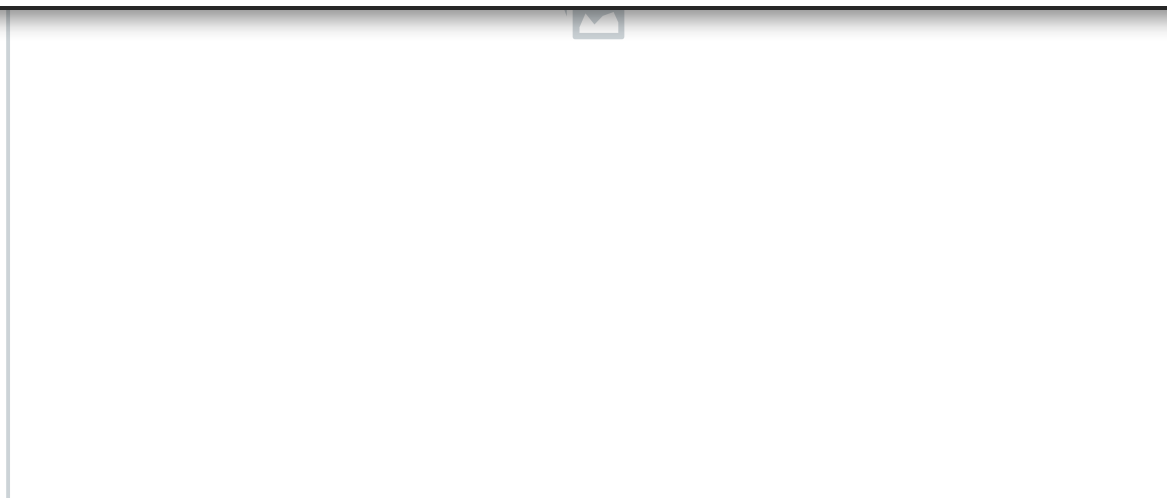


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OR SIGN UP WITH DISQUS **TrueNorth_Steve** ✓ DEPLORABLE • a year ago— | 

this article reminds me of something - just can't place my finger on it. so the future is about keeping people within a set range and financial bracket.. how depressing



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Lee Prewett • a year ago

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"Renault" and "engineering" are never spoken together because we cannot have people dying of laughter. Simply stated, the French are not smart enough to do competent engineering. Look at all of the half-baked engineering "advances" by Citroen--for example--over the years that were stupendously under-thought and instantly destined for failure. With Renault being even dumber than Citroen....

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"The DEVC project is part of a larger program known as FABRIC, which stands for FeAsiBility analysis and development of on-Road charging solutions for future electric vehicles."

The French are indeed a resilient people. Despite all the crises they've had to deal with in recent times they've still managed to come up with the worst acronym ever.

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From is this like the solar panel sidewalks which break when someone actually walks



what are the health risks for say bicyclists using those roads, or motorcyclists... this technology is decades off. Still think infrastructure repair must be a greater priority.

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vicunawearer → gm conscience • a year ago



we need to stop "repairing" the shit hole infrastructure in this country and start anew. We need NEW infrastructure, not more patch up jobs. but what do you expect, it's only taken GM 60 years to move on from push rods. at that rate you can expect next gen stuff like this in the USA by 2067

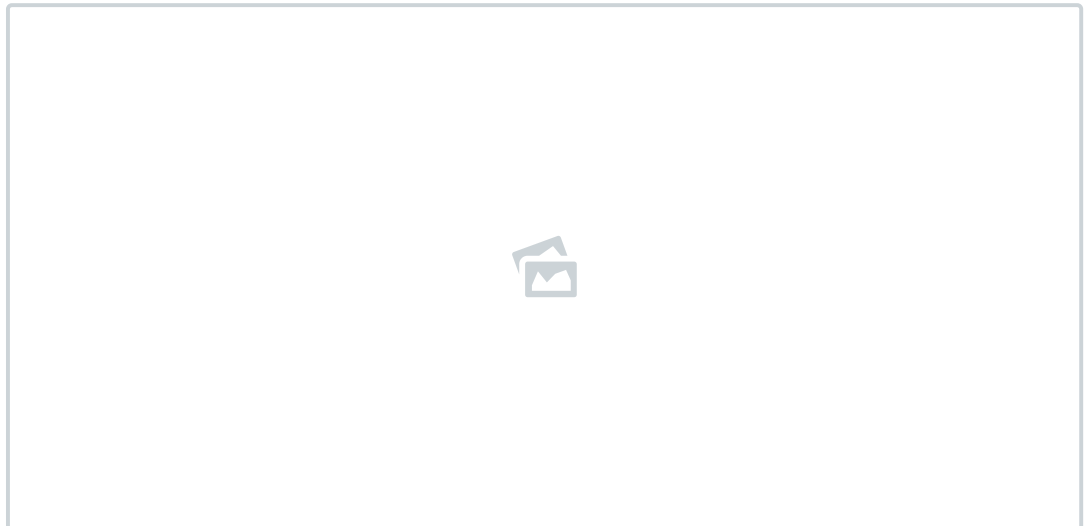
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Health risks? C'mon - I think you're overreacting just a bit.



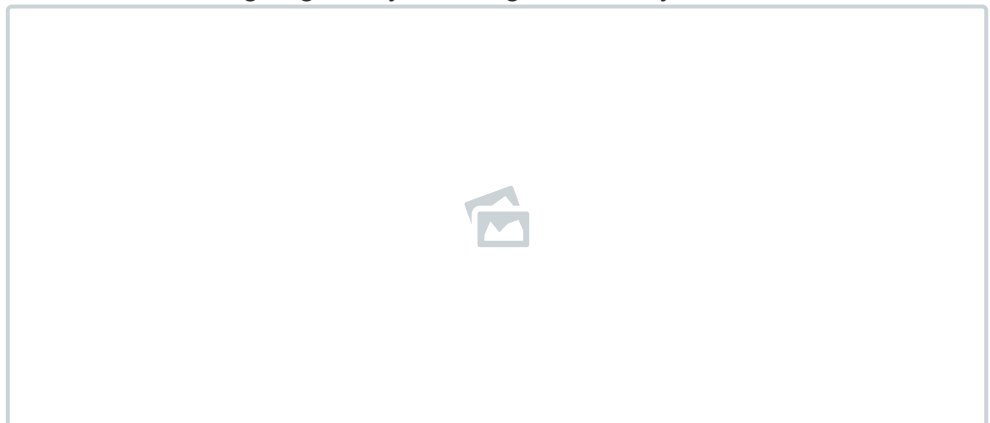
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Next, someone is going to say smoking is bad for you



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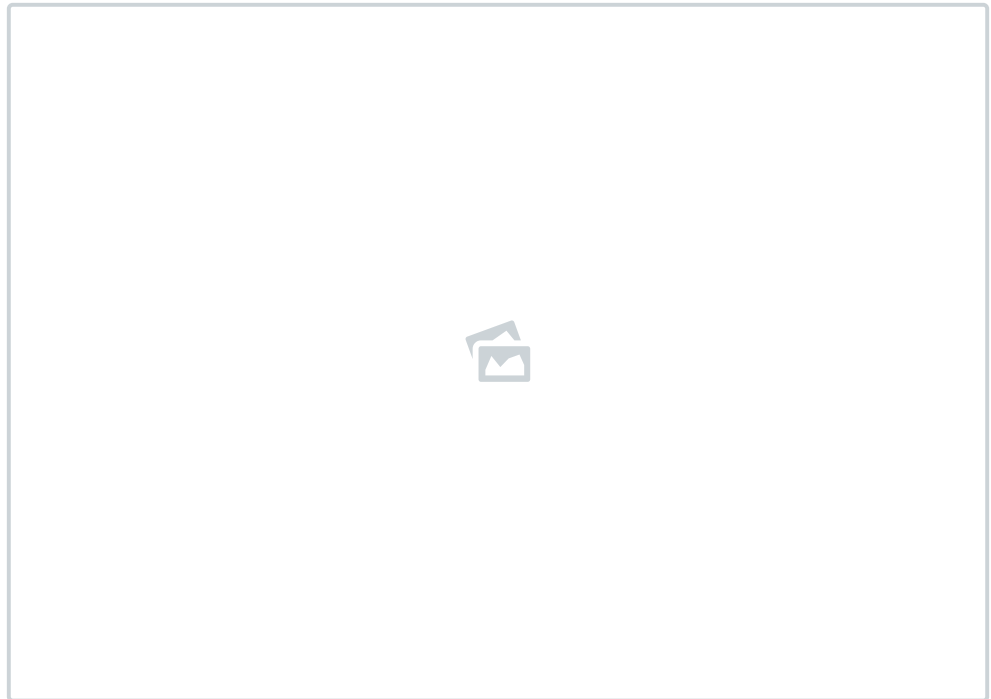
What about Fukushima and Chernobyl? If we will not use nukes for generating

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**Sean Wagner** → irredeemable • a year ago

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Fair question. The last ten years have brought enormous changes in the cost of solar and wind power, while storage and the smart grid are going to have a similar impact. Just one data point:



[The numbers for Europe are 90% new renewables in 2016, albeit with less retirement of coal, if I remember correctly].

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**irredeemable** → Sean Wagner • a year ago

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You bringing chart of capacity as proof of actuality. There is a cost involved to achieving capacity. KW of solar power cost 10 times than oil and gas, wind even more. That's not accounting for actual cost of installation and production of power plant. Will we have birds at all if we to utilize all wind capacity? Will we have land left for recreation after utilizing all solar capacity? Where is the study estimating cost to environment after those capacities achieved?

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**Sean Wagner** → irredeemable • a year ago

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You're clearly not up to date, which is a pity. Ten years ago, I thought renewables were going to remain a boutique technology for a generation at least. Two data sources and one example, but all the interesting and relevant information is available, so I won't spend more time on this.

U.S. Energy and Employment Report | Jan 2017

<https://www.energy.gov/site...>

>>> [JOBS] [Page 29] Table 1.

Generation and Fuels Employment by Sub-Technology

Offshore Wind Farms Offer Subsidy-Free Power for First Time |
April 13, 2017

www.bloomberg.com/news/arti...

And the technology is still improving. It actually would take only a tiny amount of the US's total area to provide all its energy needs by solar [in theory]. A good mix is more practical and realistic.

Have a nice weekend :)

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vicunawearer → irredeemable • a year ago



and thank god for that. Swiss don't need to inundated by poor white american trash.

oh and it's called the sun. it can provide all the energy man will ever need in it's lifetime.

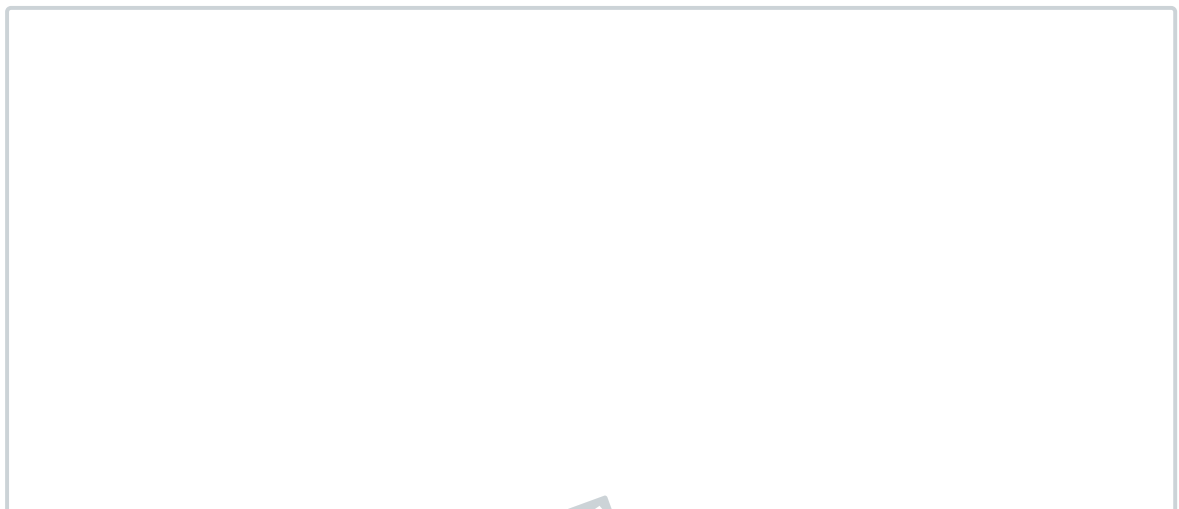
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