



Verdek Newsletter

New/Upcoming Technology

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Dear Guy,

The world of alternative fuel is always changing. In this issue of Verdek's newsletter we go over some of the newest products hitting the market and analyze how they may affect the future of EV and CNG/LNG solutions.



The Evolution of EV Batteries into the Energy Storage Market:

"Second-Life" Batteries Find new application

Available for pre-order in September, Nissan has recently revealed its xStorage system in hopes of competing with the Tesla's PowerWall. With the market for EV's continually

growing, another side market for residential energy storage has emerged as a result. Second-Life cells from old EV's like the Nissan Leaf are now being used to store electric power. The batteries are designed to connect to a renewable energy source, like solar panels, and store any excess energy. The energy can then be used at any time in your home or business. The product, designed in Europe, also utilizes



wireless connectivity. Users can switch from grid power to stored power via their smartphones. This new business is the answer to the long term sustainability of EVs. Lithium batteries can still have a practical use after they are no longer strong enough to power an EV.



Chevy Bolt Could Benefit From Model 3's Lengthy Timeline

Tesla might end up sharing some of its success with other EV manufacturers in the near future. The Chevy Bolt has the same general design as the Tesla Model 3, with a 200 mile range and



similar pricing. This creates the potential for similar EV's to capitalize on the market demand that has been created by the Tesla Model 3 (Available in 2018). At this point in time, there are approximately 400,000 reservations that have been made for the car. What will these "EV-Ready" customers drive in the meantime? The Bolt is a strong alternative and it will be available in January 2017. It also qualifies for the "white" sticker program in California, allowing it to use carpool lanes. This is a privilege that many Californian proudly mention.



EV: The Alternative to Diesel Fuel

For some time, Diesel has been the popular alternative fuel source in Europe. This has now started change due to the fact that plug-in hybrids will soon be less expensive to



operate. In order to meet the increasingly strict emissions level cap, diesel vehicles will require more expensive and complex exhaust after-treatments. These stricter measures are being set in the wake of VW's recent scandal where the company was able to register false readings during emissions testing. In what was perhaps a direct response to this, VW set

a goal of selling one million plug-in hybrids/EV's by the end of 2025. Does this mean the end for diesel's reign as the top European alternative energy source? Soon, EV's won't only be the cleaner option, but the cheaper option. Seems like a no-brainer, right?

We hope that this edition of the Verdek newsletter provided some insight into the current EV market! The future of alternative energy is now, and will soon be available to everyone.

Sincerely,

Michael Murray - Verdek Marketing
Verdek

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