

**Subject:** EV Mandate

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**From:** Charles Manfredi

**To:** HearingComments, DNREC (MailBox Resources)

This push for 100% electric vehicles is ill advised. Our infrastructure will be severely stressed. A much better short and mid-term solution is to push for milage goals. This will likely be met with plugin hybrids. The average mid-sized SUV gets 19 mpg. Toyota's new RAV4 get 40+. Consider the impact of the consumption of, at a minimum, half the current rate. This doesn't even take into account the fact that these vehicles can drive some low double digits fully on electric.

A large number of Delaware residencial properties are 100% electric. The increased required electricity production will invariably result in high costs.

Let's recap.

1. Hybrids would not require a massive infrastructure change.
2. Hybrids would easily result in a 50% or greater reduction in fossil fuel.
3. Short trips, which most trips tend to be can be managed as 100% electric without carrying the enormous weight of batteries meant to provide multi-hundred mile range.
4. Hybrids would not burden our roads with their greater weight.
5. There is an enormous environmental impact of the entire life cycle of litium batteries. The sourcing of lithium and rare earth metals also makes us further dependent on foreign sources.
6. Hybrid batteries can run cooler as they are not stressed to the extent that 100% EVs are and swaps outs don't cost thousands. Hybrids and hybrid technology has been around for many years and fires were not a common news report. How many uncontrollable fires have been reported since the relatively new full EVs have been around?
7. Lastly...for now, the economic cost will extend to lost fuel sales for the huge number of people who "drive through" delaware and will polute our air whether or not we are driving EVs or not. Can't imagine the cost to our large fueling station owners as well.

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