

## **EV's Are Cheaper to Operate and Better for the Environment than ICE's**

Thank you for holding public hearings on clean car and truck standards which will improve the lives of everyone in New Mexico. My name is Walter Gerstle. I am a retired professor of civil engineering, and a professional engineer. Let me provide some engineering analysis.

I recently purchased an EV and installed a Level II charger in my carport. I charge my EV once every several days, between the hours of 10 PM and 5 AM, using the PNM Transportation Electrification Program rate of 3 cents per KWh. My car's battery stores 77 kWh of electricity. Thus, it costs me only \$2.30 to fully charge my car at home, which has a range of 380 miles. So I pay 0.61 cents per mile for electricity. That is less than one penny per mile. With my old internal combustion engine car, I paid about \$3.00 per gallon, and got about 30 miles per gallon. So I paid about 10 cents per mile for gasoline.

So, for me, the cost of charging for an EV is less than one-tenth of the cost of fueling an internal combustion engine vehicle.

Finally, I can sleep easier, knowing that my carbon footprint is much less than if I were to drive an internal combustion engine vehicle. And as our electric power system continues to transition to carbon-free renewable electricity, my commuting carbon footprint will be reduced even more.

As the price of EV's continues to fall, more and more people will be able to purchase EV's and save on fuel costs. And save our climate at the same time.

Please enact rules that will encourage all New Mexico citizens to take advantage of the economic and environmental benefits of electric vehicles.

Thank you.