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The goal of zero emission vehicles is a lofty one indeed. It is also an admirable goal. However, what must be examined is the entire life cycle of the vehicle in question. How much damage are we doing to mother Earth in the lithium mines and in gathering the other rare metals needed for battery vehicles. Also, what happens when we have junk yards fills with dangerous expired batteries. What do we do with those?

It is also important to note that we must have the infrastructure to supply electricity for charging of such vehicles. One estimate is that California for instance would use double the electricity that it is currently using. However, California is right now experiencing a shortage of electricity. Where are the new sources of electricity? Will we burn coal or construct nuclear power plants? Will vehicle charging stations be diesel powered?

These and other topics **MUST** be addressed before we make a decision to convert to use of so called zero emission battery powered vehicles.