



Advances in Automobile Engineering

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Opinion

Advances in Automobile Engineering the Electric cars have existed since the early 1800s. However, coal and other fossil fuels were used to create the majority of the electricity. Now that the world is facing serious petroleum shortages and escalating environmental pollution consequences such as climate change, efforts are being made to reduce pollution and improve carbon footprints. Every government has developed policies and frameworks to meet this goal. It has boosted research and development in the fields of renewable energy and electric vehicles significantly. There is a strong link between the two of them.

Battery Electric Vehicles (BEV) is viewed as a viable mobility option for reducing fossil fuel dependency. After almost a decade since Tesla introduced the first serial production electric vehicle, the major automakers have already stated their plans and preparedness to deliver their electric vehicles to customers. The battery is the most difficult aspect of the BEV, as customers are accustomed to the flexibility of using oil derivatives. Electric batteries have either a high specific energy capacity or a high specific power capacity to meet the demands of ordinary driving discharge/charge cycles, but not both. The combination of an electric battery with an additional high-power source, mainly mechanical devices such as kinetic Energy Storage (KES) — flywheels or electrical devices such as super-capacitors, is a common method nowadays. KES systems are gaining popularity as a result of their use in Formula One, and automakers are showing interest in putting them into mass production.