

4 Car hybrid vehicles could be a cleaner soln for India than EVs. Analysts

In India's commitment to net zero emissions decarbonisation of mobility plays a crucial role. Supporting this, the electric vehicles sales touched 1.38 million units in January to November, 2023. Yet, the hybrid vehicles have much more to offer.

Hybrids for a change

self charging hybrids

Plugin hybrids

Fuel cell hybrids

As India aspires for a cleaner mobility the transition to electric from internal combustion engine can be facilitated by hybrids.

Infrastructure : Charging stations - India

has only 2000 charging stations

and the electric vehicles are bound to increase ~~to~~ to 45-50 million by 2030.

Here, the hybrids can help as the combustion engine can charge the car's battery and improve the range with less carbon footprint.

② Efficient Taking in emissions right from production - hybrids are 34% less polluting than diesel, 25% of petrol and 16% of electric vehicles.

③ Technology - Hybrids can bring in more technology with them, such as hydrogen fuel cell cars, flex fuel hybrids etc which can improve the battery storage technologies of electric vehicles.

④ Subsidy: Currently, government subsidises electric vehicles during purchase which hybrids do not enjoy.

subsidising hybrids under the same scheme can improve the adoption of electric vehicles and hybrids.

⑤ Range issues : As battery electric vehicles are range dependent, Fuel cell hybrids can run as conventional diesel car without constant refills. The Toyota Mirai fuel cell ev - has a claimed range of over 650 kilometres.

(For a smooth transition)

Even if India generates 40% of energy from non-fossil fuel sources, hybrids will emit 8% lower than electric vehicles.

India's transition to electric must adopt the hybrid route as battery electric are cost prohibitive. The adoption of hybrids must improve simultaneously developing conducive policies for electric vehicles.