

Gs II # Govt policies

7/6/21

The vision regarding electric vehicles in the country depends on various factors to ensure better developmental outcomes.

Explain

Government of India as a part of National Electric Mobility Mission plan promoting electric vehicles in order to contain GHG emission thus mitigate climate change.

Central government & various state govt working in promoting EV like FAME India scheme of central govt, exempting registration & renewal fees, lowered land acquisition cost for EV component manufacturer of Karnataka govt. etc.

However rate of EV's fell 20% by 2021 as per society of manufacturer of EV, because of major factors unaddressed,

1] EV are seen as short distance communication because of lesser charging station outside cities

Ex:- out 2,600 charging station govt promoting $\frac{1}{2}$ are in major cities

2] As India allows numerous charging connectors which affects interoperability of different companies & suboptimal use of infrastructure

3] There need to work on contactless charging unit like being done in china & south Korea

4] Connecting charging unit to coal based power undermines EV vision significantly thus attention needed connect charging infrastructure to renewable power

5] Utilizing existing infrastructure like petrol pumps, bus station, metro to construct charging units increase accessibility & also lessen construction cost

6] Major cost of EV lies in batteries, as lithium ion battery used, India having no significant lithium mines

7] Importing large amount of lithium undermine self reliance on power thus search of lithium mines needed
ex:- Recently Mandya district of Karnataka reported lithium mines

Thus vision of global leader in electric mobility successful even charging infrastructure & energy mgt