

2022/01/21 Energy.

Qns

India's Electric vehicle transition needs to be accomplished by a flip in charging ~~inf~~ infrastructure. Explain (200 words).

Ans

India wants to populate road space with electric vehicles and NITI Aayog in order to accomplish the goal want all ev vehicles ^{should account} of 80% (2 wheelers), 50% of cars and 20% of transport vehicles by 2030.

To achieve the target output 3 parts are there in EV

- 1) production of vehicles.
- 2) Batteries.
- 3) charging infrastructure.

- Production and batteries are invested by market but charging infrastructure are invested by Product linked incentives and there is no enough public space for charging infrastructure.

Power ministry Guidelines on charging infrastructure

Power ministry provided various norms and guidelines for the establishment of charging infrastructure.

- 1) Any office and commercial can be used for charging on rental basis.
- 2) once charging infrastructure established within a week electricity connection to be given.
- 3) Also gave norms on rents calculation, purchase

Limitation in Guidelines:

- 1) only allowed 1mw and above charging infrastructure.
— draws limitation on small^{power} level charging infrastructure

The fast charging infrastructure helps in nudge the car buyers to shift to EV and this is important at present condition as we need to go along renewable energy. With developed technology and innovation of various new renewable source, the quality and quantity of power in EV will not be an issue.