

Q23 3
1/1/22

India's EV transition needs to be accompanied by a flip in charging infra. Explain.

India's EV market is projected to \$150 billion by 2030. In 2020-21 the EV sales was only 1.3% and it is projected to increase.

Transition to EV

The transition to electric mobility must be accompanied EV production batteries and charging infrastructure

On the production front the FAME scheme, the production linked incentive scheme for EVs and advanced chemistry all have encouraged EV

transition. The government aims to sell 30% of passenger cars, 20% commercial vehicles and 80% 2 wheelers and 3

wholers as electric. The combined
effect can cause ±3% batch course of
import of oil.

on the charging side the power
ministry has notified to install charging
infrastructure in government buildings
and for every three kilometers.

The charging stations can be
powered by solar / wind so that the
charge can be clean.

Challenges - India imported lithium ion
batteries cost \$1 billion as source is
limited domestically. Only 650 charging
stations are available as per 2018
data.

The states and centre have to
work in tandem to materialise the
EV transition. The Delhi method
electric highway plan is a good
example.

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