

# India's charging infra falls short, unable to support zipping EV sales

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The move towards green energy is leading to soaring electric vehicle sales in India. But India may not have enough infrastructure to cater to the demand from the rising number of electric vehicles. As of January 23, 2023, India had 5,254 public electric vehicle (EV) charging stations to cater to 20.65 lakh EVs. This is according to the data revealed in the Lok Sabha by Power Minister RK Singh and the Vahan dashboard. This means for every 393 electric vehicles in the country, there is one public charging station.

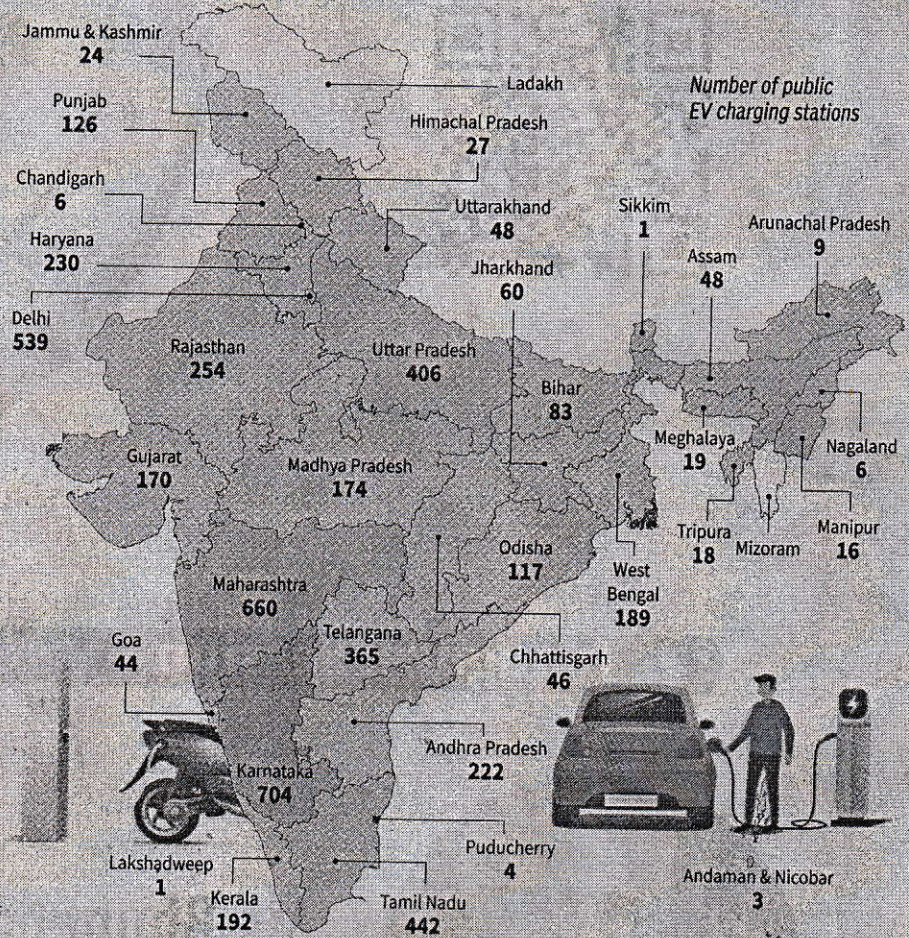
## DATA FOCUS.

According to a White Paper by Alvarez and Marsal, a global professional services firm, released in July 2022, "The global ideal EV/public chargers ratio is also around 6-20 EVs per public charger, whereas, in India, it currently stands at an estimated 135." According to the report, the EV to charger ratio in 2022 was 6 in China and the Netherlands, 19 in the US. The paper also recommended setting up approximately 46,000 more charging stations in the country. While higher number of electric 2- and 3-wheelers, which are typically charged at home, reduces the requirement for public charging stations in India, the numbers do need to increase. While answering another question, the Minister said that 316 charging stations were added in FY20, while 1,742 were added in FY21.

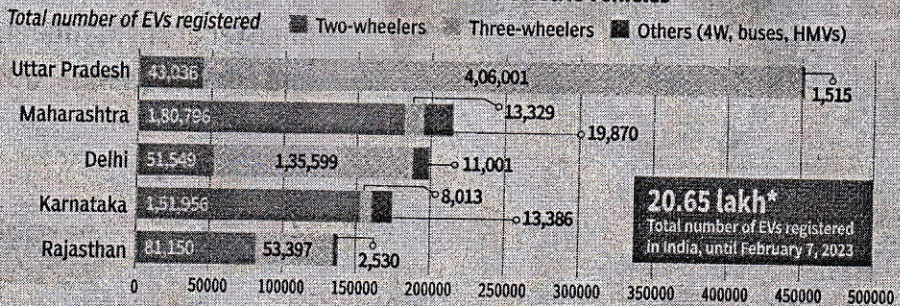
### KARNATAKA TOPS LIST

Karnataka has the most EV charging stations in the country - 774 followed by Maharashtra with 660, Delhi with 539 and Tamil Nadu with 442 stations. However, according to the Vahan data, most EVs in the country, 4.5 lakh of them, are registered in Uttar Pradesh. The

## Karnataka has the most public EV charging stations



## But UP and Maharashtra have the most number of electric vehicles



\*Vahan does not capture the data from Telangana and Lakshadweep

Source: Lok Sabha - Ministry of Power, Vahan Dashboard

State, however, has only 406 public EV charging stations, leaving one charging station for approximately 1,103 electric vehicles.

A majority of UP's electric

vehicles, 4.06 lakh of them, are electric three-wheelers, which include e-rickshaws. The State also has 43,036 electric two-wheelers.

Forty-three of all the charging

stations are situated on 17 National Highways. NH-8, which runs from Karimganj in Assam to Sabroom in Tripura has nine charging stations, while NH-11 has 8.