



South Asia Clean Energy Forum 2023

Catalyzing Partnership for Clean Energy Transition

Session: Advancing E-Mobility in South Asia

Topic: Delhi – Driving India's e-Mobility Transition

Shri Ashish Kundra

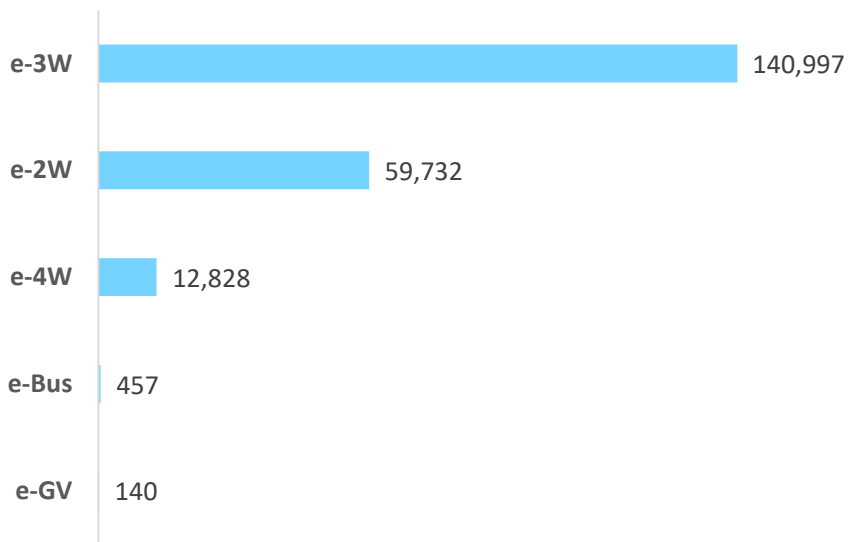
Principal Secretary-cum-Commissioner, Government of NCT of Delhi



Delhi has successfully established itself as India's EV capital

At present, Delhi has **over 2,00,000 EVs** with e-3Ws and e-2Ws accounting for **over 90%**

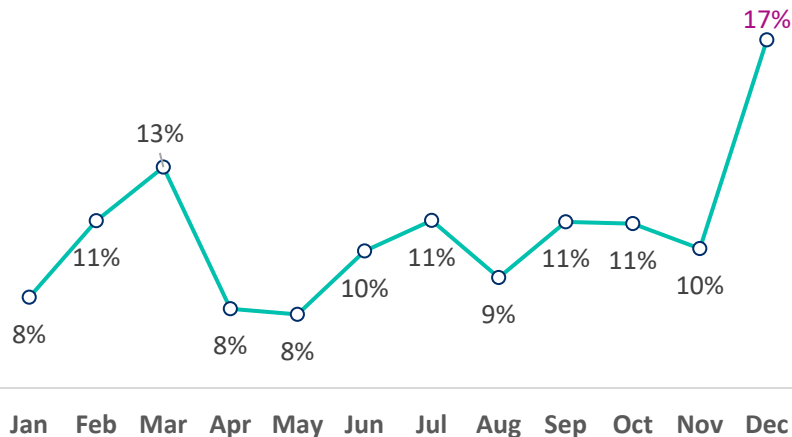
Segment-wise EV Sales in Delhi Till Date



Source: Vahan Dashboard

EVs accounted for **~17%** of Delhi's new vehicle sales in December 2022 – **highest ever in India**

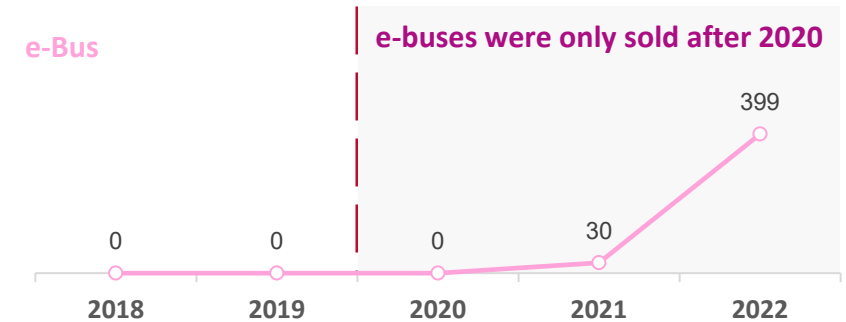
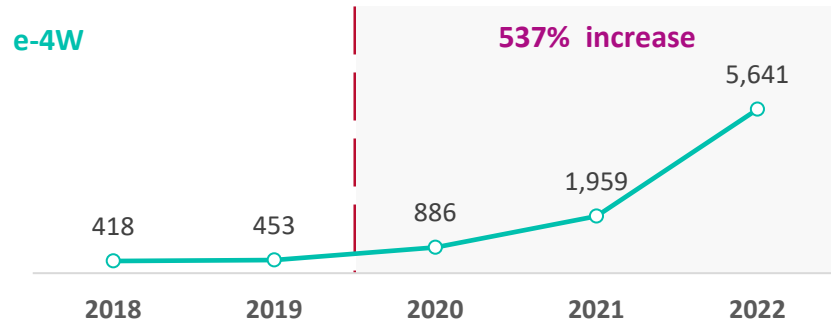
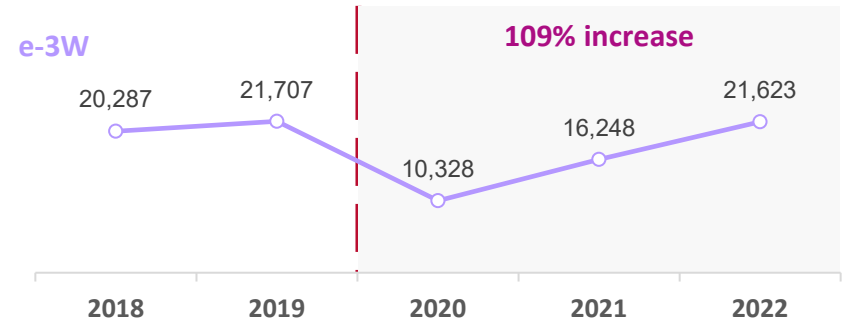
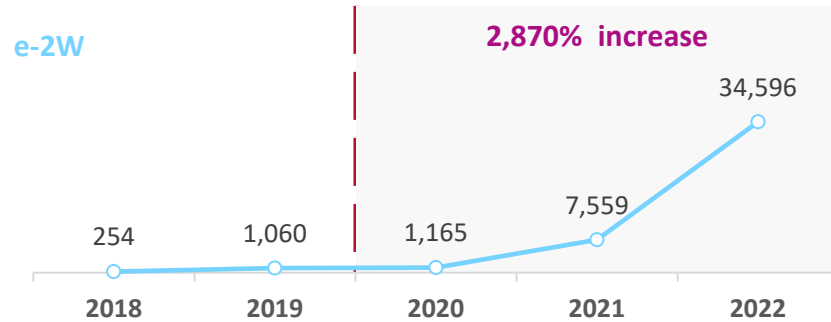
EVs as a % of New Vehicle Sales (Month-wise in 2022)



Average for Jan'23 – Mar'23 = **~12%**

Since 2020, Delhi has witnessed over 1,15,000 new EV registrations

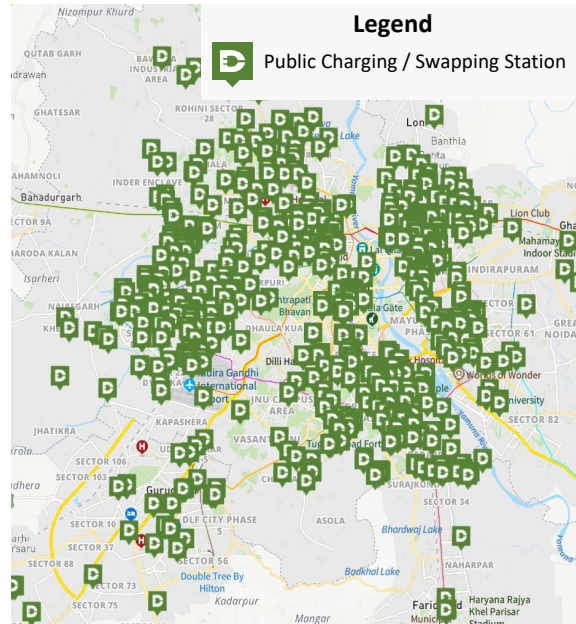
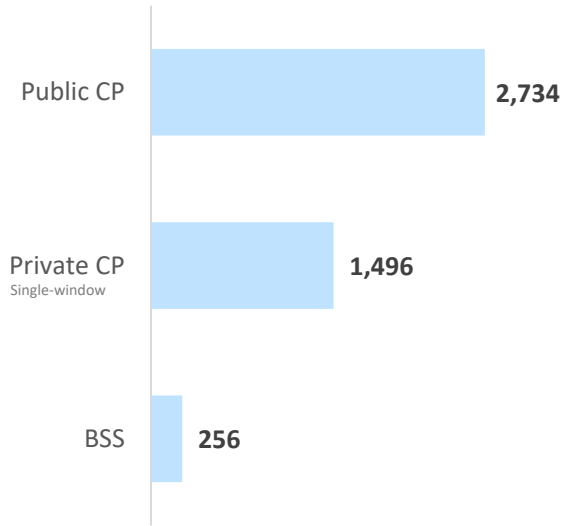
Segment-wise Annual EV Sales in Delhi from 2018 to 2022*



Delhi's public charging / swapping network has also rapidly expanded

With **2,734** public charging points (CP); and **256** battery swapping stations (BSS) already operational, Delhi's **public infrastructure** for supporting EV adoption is continually expanding

Delhi's Charging / Swapping Infrastructure



This accelerated growth is attributable to the Delhi EV Policy (Aug'20)

Key Policy Guidelines

- ❖ Create **State EV Cell** to monitor EV Policy implementation
- ❖ Offer **grants for first 30,000 private charging points**
- ❖ Ensure **20% of vehicle parking is 'EV-ready'** through building bye-laws
- ❖ Develop **public database for real-time information** on charging infra



Key Policy Targets and Incentives

- ❖ **25% new registrations** from EVs by 2024
- ❖ **Incentives** for e-2Ws, e-3Ws, and e-4W
- ❖ Government to **convert all 4W fleet** to EVs
- ❖ **New city bus fleet to be 50% electric**
- ❖ **Incentives for scrapping** old ICE vehicles
- ❖ **New auto permits only for e-autos**
- ❖ EV targets for **delivery / aggregator fleet**

Several important milestones under the policy have been achieved

October 2020

Operationalisation of demand incentives and other benefits

November 2021

Launch of single-window process for charging points

February 2022

Award of 100 sites for public charging / swapping to bidders

April 2022

Approval for procuring 1,500 buses

January 2023

Preparation of district-level action-cum-implementation plan



February 2021

Launch of Switch Delhi campaign

January 2022

Launch of Switch Delhi website

March 2022

Issue of letters of intent for 4,261 e-autos

September 2022

Open database for charging /swapping stations on Switch Delhi

Initiatives have been launched across all major vehicle segments (1/2)



To ply as **bike taxis**, 2Ws onboarded once the Aggregator Policy commences **must be electric**



DMRC flagged off **e-rickshaws for last-mile connectivity** from metro stations

Initiatives have been launched across all major vehicle segments (2/2)



GoNCTD issued an order for all State Departments to **transition their fleets to EVs**



Over **8,800 e-buses** to be inducted by 2025 –
~300 e-buses already operational

However, existing challenges must be addressed to scale-up adoption

In order to further **accelerate EV adoption**, certain critical challenges need to be addressed, including –



**Range
Anxiety**

- ❖ **Limited range and public charging infrastructure** has led to anxiety



**High Capital
Expenditure**

- ❖ **Upfront cost of buying an EV** is higher than that of comparable ICEVs



**Battery
Technology**

- ❖ **Cost, lifespan, performance, etc.** of batteries are still causes for concern



**Skill
Gap**

- ❖ **Capacity of existing workforce** is inadequate for the future EV economy



**Consumer
Awareness**

- ❖ **Most consumers are still unaware** of the benefits of EVs vis-à-vis ICEVs

Going forward, strengthening of Delhi's EV ecosystem shall be critical

For Delhi to emerge as the **EV capital of the world**, initiatives such as the following must be undertaken –



**Charging /
Swapping**

- ❖ **Expanding charging / swapping infrastructure** in line with ambitions



**Developed
Ecosystem**

- ❖ **Strengthening domestic EV R&D / manufacturing** with an export focus



**Circular
Economy**

- ❖ **Promoting retrofitting** of end-of-life ICEVs and **recycling** of batteries



**Capacity
Building**

- ❖ **Designing curricula / capacity building programmes** focused on EVs



**Awareness
Campaigns**

- ❖ **Conducting awareness-raising / sensitisation initiatives** for consumers

THANK YOU

